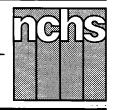
# Monthly Vital Statistics Report



Final Data From the CENTERS FOR DISEASE CONTROL AND PREVENTION/National Center for Health Statistics

### Report of Final Natality Statistics, 1996

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### **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.

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

### **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.

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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 thirties 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 non-Hispanic 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 non-Hispanic 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.

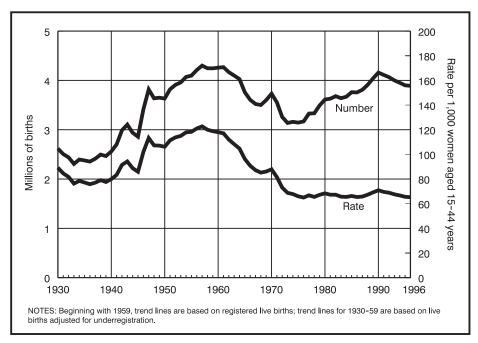


Figure 1. Live births and fertility rates: United States, 1930-96

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

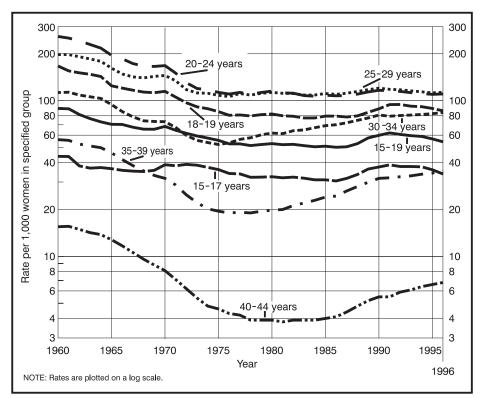


Figure 2. Birth rates by age of mother: United States, 1960-96

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]

		Non-H	ispanic	
Year and age	Total <sup>1</sup>	White	Black	Hispanic
10–14 years				
1996	1.2 1.3 1.4	0.4 0.4 0.5	3.8 4.3 4.9	2.6 2.7 2.4
15–19 years				
1996	54.4 56.8 62.1	37.6 39.3 43.4	94.2 99.3 118.9	101.8 106.7 106.7
15–17 years				
1996	33.8 36.0 38.7	20.6 22.0 23.6	66.6 72.1 86.7	69.0 72.9 70.6
18–19 years				
1996	86.0 89.1 94.4	63.7 66.1 70.5	136.6 141.9 163.1	151.1 157.9 158.5

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

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

<sup>&</sup>lt;sup>2</sup>See Technical notes for information on reporting areas in 1991.

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 over— Birth 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 non-Hispanic 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 non-Hispanic 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), non-Hispanic 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 non-Hispanic white women, 74.4 for black women, and 93.2 for Hispanic women.

The birth rate for unmarried non-Hispanic 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

women. Rates declined for unmarriednon-Hispanic 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

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

	Births t	to unmarried v	vomen	
Year	Number	Rate <sup>1</sup>	Percent <sup>2</sup>	Birth rate for married women <sup>3</sup>
1996	1,260,306 1,253,976 1,289,592 1,240,172 1,224,876 1,213,769 1,165,384 1,094,169	44.8 45.1 46.9 45.3 45.2 45.2 43.8 41.6	32.4 32.2 32.6 31.0 30.1 29.5 28.0 27.1	83.7 83.8 86.8 89.0 89.9 93.2 91.9
1988	1,005,299 933,013	38.5 36.0 34.2	25.7 24.5 23.4	90.8 90.0 90.7
1986	878,477 828,174 665,747	32.8 29.4	23.4 22.0 18.4	90.7 93.3 97.0

<sup>&</sup>lt;sup>1</sup>Births to unmarried women per 1,000 unmarried women aged 15–44 years.

<sup>&</sup>lt;sup>2</sup>Percent of all births to unmarried women.

<sup>&</sup>lt;sup>3</sup>Births to married women per 1,000 married women aged 15–44 years.

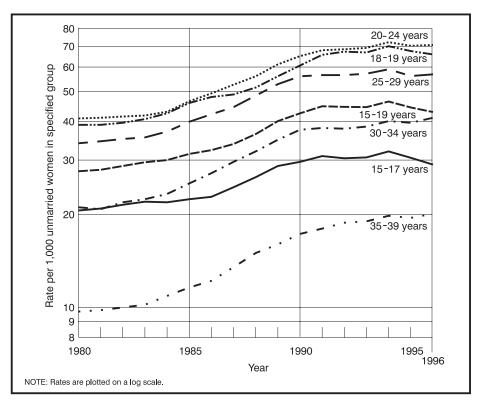


Figure 3. Birth rates for unmarried women, by age of mother: United States, 1980-96

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.

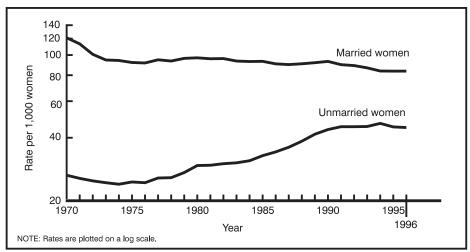


Figure 4. Birth rates by marital status of mother: United States, 1970-96

### 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 non-Hispanic 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 non-Hispanic 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 Hispanic origin of mother	All ages	25–29 years	30–34 years	35–39 years	40 years and over							
Percent completing 12 years or more of school												
All races <sup>1</sup>	77.6	85.5	90.1	90.0	87.2							
Non-Hispanic white	87.0 72.0	93.2 86.2	96.1 88.1	96.4 87.7	96.0 85.6							
Non-Hispanic black	48.6	55.4	59.6	56.4	48.2							
Percent completing 4 years or more of college												
All races <sup>1</sup>	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 <sup>2</sup>	6.4	8.1	14.2	15.2	12.7							

Includes races other than white and black and origin not stated

<sup>&</sup>lt;sup>2</sup>Persons of Hispanic origin may be of any race.

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 non-Hispanic 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 non-Hispanic 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 rare—reported 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 pregnancy-associated 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, pregnancy-associated 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,

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 non-Hispanic white and black women and women in other racial groups. As in previous years, rates were highest for non-Hispanic 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 non-Hispanic 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 non-Hispanic 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). Non-Hispanic 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 non-Hispanic 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.

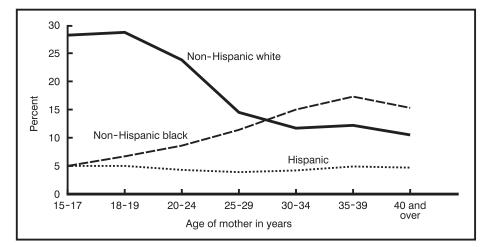


Figure 5. Percent of mothers who smoked during pregnancy by age and race/Hispanic origin of mother: United States, 1996

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 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

		Non-H		
Year	All races <sup>1</sup>	White	Black	Hispanic <sup>2</sup>
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			

<sup>. .</sup> Data not available

<sup>&</sup>lt;sup>2</sup>Persons of Hispanic origin may be of any race.

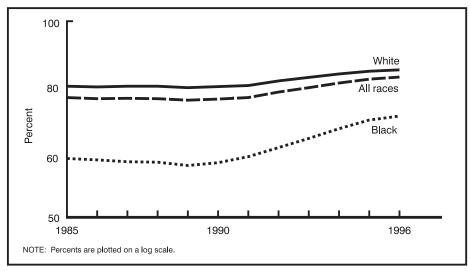


Figure 6. Percent of mothers with first trimester prenatal care by race of mother: United States, 1985–96

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

<sup>&</sup>lt;sup>1</sup>Includes races other than white and black and origin not stated

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
	28.8	43.9	17.2	8.9	1.2

NOTE: See reference 59 for information on calculation of this measure.

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. CNM-attended 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 non-Hispanic white women were attended by a physician in a hospital compared with about 92 percent of births to non-Hispanic black women and 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 non-Hispanic 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 non-Hispanic black women (15.7) than for non-Hispanic white (14.8) and Hispanic women (13.4) and the decline for non-Hispanic 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

	Cesa	rean rate	
Year	Total <sup>1</sup>	VBAC rate <sup>3</sup>	
996	20.7	14.6	28.3
995	20.8	14.7	27.5
994	21.2	14.9	26.3
993	21.8	15.3	24.3
992	22.3	15.6	22.6
991	22.6	15.9	21.3
990	22.7	16.0	19.9
989	22.8	16.1	18.9

<sup>&</sup>lt;sup>1</sup>Percent of all live births by 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 non-Hispanic 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 non-Hispanic black births levels were very

<sup>&</sup>lt;sup>2</sup>Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

<sup>&</sup>lt;sup>3</sup>Number of vaginal births after previous cesarean (VBAC) delivery per 100 live births to women with a previous cesarean delivery.

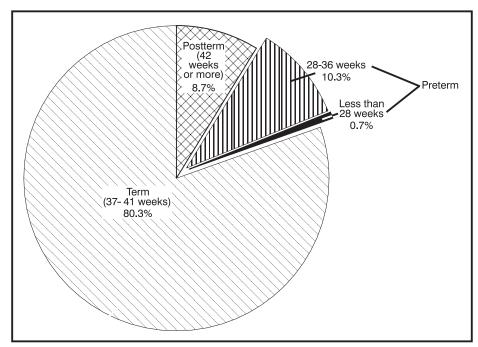


Figure 7. Gestation distribution: United States, 1996

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 non-Hispanic 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 non-Hispanic 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 non-Hispanic 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 non-Hispanic, 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,

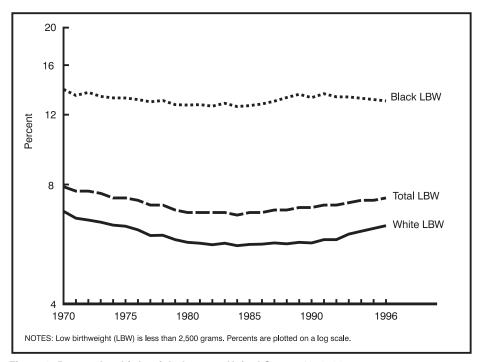


Figure 8. Percent low birthweight by race: United States, 1970-96

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 non-Hispanic 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 non-Hispanic 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 consistent 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 non-Hispanic 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 non-Hispanic 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 non-Hispanic 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	Quadruplets	Quintuplets and other higher order multiples
1996	100,750	5,298	560	81
1995	96,736	4,551	365	57
1994	97,064	4,233	315	46
1993	96,445	3,834	277	57
1992	95,372	3,547	310	26
1991	94,779	3,121	203	22
1990	93,865	2.830	185	13
1989	90,118	2,529	229	40

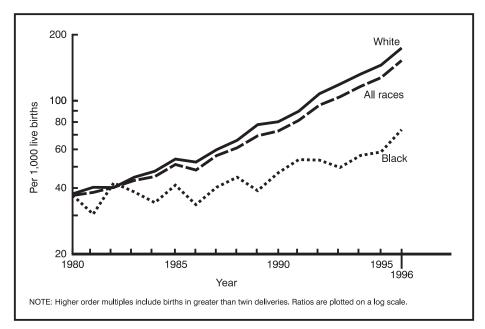


Figure 9. Higher order multiple birth ratios by race of mother, 1980-96

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, 31/2 times as high as that for a singleton (84).

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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 <sup>1</sup>										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: 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						<sup>4</sup> 6	<sup>4</sup> 7	<sup>4</sup> 8	49			<sup>4</sup> 12		<sup>4</sup> 14			<sup>6</sup> 17	<sup>6</sup> 18	<sup>6</sup> 19			<sup>6</sup> 22	<sup>4</sup> 23		<sup>4</sup> 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																				<sup>3</sup> 20					
Race of mother	<sup>2</sup> 1	<sup>2</sup> 2	<sup>2</sup> 3	24	<sup>3</sup> 5	<sup>4</sup> 6	47	48	49		<sup>2</sup> 11	<sup>4</sup> 12	<sup>5</sup> 13	<sup>4</sup> 14	<sup>3</sup> 15	<sup>3</sup> 16	<sup>6</sup> 17	<sup>6</sup> 18	<sup>6</sup> 19		<sup>3</sup> 21	<sup>6</sup> 22	<sup>4</sup> 23	<sup>5</sup> 24	<sup>4</sup> 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

27	28	29	30	31	32	33	34	35	36	37	38	39	40 l	41	42	43	44	45	46	47	48	49	50
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												39					44						
27	28	29	30	31		33		35	36	37	38	39	40		42	43		45	46	47	48	49	50
27	28	29	30	31	32	33	34	35	36	37		39	40	41	42	43	44	45	46	47	48	49	50
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		29	30		32	33			36	37			40					45			48	49	50
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27	28									37					42								
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				31																			
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	<sup>4</sup> 28		<sup>4</sup> 30		<sup>6</sup> 32	<sup>6</sup> 33	<sup>6</sup> 34	<sup>6</sup> 35			<sup>6</sup> 38	<sup>6</sup> 39	<sup>6</sup> 40	<sup>6</sup> 41		<sup>6</sup> 43		<sup>6</sup> 45	<sup>6</sup> 46	<sup>6</sup> 47			<sup>6</sup> 50
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												39	40	41	42								
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						33	34	35															
<sup>5</sup> 27	<sup>4</sup> 28	<sup>3</sup> 29	430	<sup>3</sup> 31	<sup>6</sup> 32	<sup>6</sup> 33	<sup>6</sup> 34	<sup>6</sup> 35	<sup>3</sup> 36	<sup>3</sup> 37	<sup>6</sup> 38	<sup>6</sup> 39	<sup>6</sup> 40	<sup>6</sup> 41		<sup>6</sup> 43	<sup>3</sup> 44	<sup>6</sup> 45	<sup>6</sup> 46	<sup>6</sup> 47	<sup>3</sup> 48	<sup>3</sup> 49	<sup>6</sup> 50
		29	30	31	32																		
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   43         43         43         44         45         46           40         40         43         43         44         45         43         44         45         46           27         28	27         28         29         30         31         32         33         34         35         36         37         38         40         41         42         44         45         46         47           27         28         29         30         31         33         33         35         36         37         38         39         40         42         43         45         46         47           27         28         29         30         31         32         33         34         35         36         37         38         39         40         41         42         43         45         46         47           28         29         30         31         32         33         34         36         37         38         40         41         42         43         44         45         46         47           28         29         30         31         32         33         40         43         40         41         42         43         44         45         46         47           27         28         30         31         32         33	28	28

<sup>&</sup>lt;sup>1</sup>Includes data for Puerto Rico, Virgin Islands, and Guam. <sup>2</sup>Includes white, black, American Indian, and Asian or Pacific Islander.

<sup>3</sup>Includes white and black
4Includes Mexican, Puerto Rican, Cuban, Central and South American, other and unknown Hispanic, non-Hispanic white, and non-Hispanic black.

<sup>&</sup>lt;sup>5</sup>Includes white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and other Asian or Pacific Islanders. <sup>6</sup>Includes Hispanic, total white, non-Hispanic white, total black, and non-Hispanic black.

Table 1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-96

[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 ra	ate		Fertility rate						
Year	All races <sup>1</sup>	White	Black	American Indian <sup>2</sup>	Asian or Pacific Islander	All races <sup>1</sup>	White	Black	American Indian <sup>2</sup>	Asian or Pacific Islander	All races <sup>1</sup>	White	Black	American Indian <sup>2</sup>	Asian or Pacific Islander		
Registered births																	
Race of mother:																	
1996			594,781	37,880	165,776	14.7	14.1 14.2	17.8	16.6	17.0	65.3	64.3	70.7	68.7	65.9		
1995 1994		3,098,885	603,139 636,391	37,278 37,740	160,287 157,632	14.8 15.2	14.2	18.2 19.5	16.6 17.1	17.3 17.5	65.6 66.7	64.4 64.9	72.3 76.9	69.1 70.9	66.4 66.8		
1993			658,875	38,732	152,800	15.5	14.7	20.5	17.8	17.7	67.6	65.4	80.5	73.4	66.7		
1992			673,633	39,453	150,250	15.9	15.0	21.3	18.4	18.0	68.9	66.5	83.2	75.4	67.2		
1991			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			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			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			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 1986		3,043,828 3,019,175	611,173 592,910	35,322 34,169	116,560 107,797	15.7 15.6	14.9 14.8	20.8 20.5	19.1 19.2	18.4 18.0	65.8 65.4	63.3 63.1	80.1 78.9	75.6 75.9	67.1 66.0		
1985			581,824	34,037	104,606	15.8	15.0	20.3	19.8	18.7	66.3	64.1	78.8	78.6	68.4		
1984 <sup>3</sup>			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 <sup>3</sup>	. 3,638,933	2,946,468	562,624	32,881	95,713	15.6	14.8	20.2	20.6	19.5	65.7	63.4	78.7	81.8	71.7		
1982 <sup>3</sup>	. 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		
1981 <sup>3</sup>			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 <sup>3</sup>	. 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 <sup>3</sup>			589,616	36,797		15.9	14.9	22.1			68.4	64.7	88.1				
979 3	. 3,494,398	2,808,420	577,855	34,269		15.6	14.5	22.0			67.2	63.4	88.3				
978 <sup>3</sup>	3 336 632	2,081,110	551,540 544,221	33,160 30.500		15.0 15.1	14.0 14.1	21.3 21.4			65.5 66.8	61.7 63.2	86.7 88.1				
976 <sup>3</sup>	. 3,167,788	2 567 614	514,479	29,009		14.6	13.6	20.5			65.0	61.5	85.8				
975 3	. 3.144.198	2.551.996	511,581	27,546		14.6	13.6	20.7			66.0	62.5	87.9				
974 3	. 3,159,958	2,575,792	507,162	26,631		14.8	13.9	20.8			67.8	64.2	89.7				
973 <sup>3</sup>	. 3,136,965	2,551,030	512,597	26,464		14.8	13.8	21.4			68.8	64.9	93.6				
972 3	. 3,258,411	2,655,558	531,329	27,368		15.6	14.5	22.5			73.1	68.9	99.9				
971 4	. 3,555,970	2,919,746	564,960	27,148		17.2	16.1	24.4			81.6	77.3	109.7				
970 <sup>4</sup> 969 <sup>4</sup>			572,362 543,132	25,864 24,008		18.4 17.9	17.4 16.9	25.3 24.4			87.9 86.1	84.1 82.2	115.4 112.1				
968 4	. 3,501,564		531,152	24,156		17.6	16.6	24.2			85.2	81.3	112.7				
967 5	. 3,520,959		543,976	22,665		17.8	16.8	25.1			87.2	82.8	118.5				
966 4	. 3,606,274	2,993,230	558,244	23,014		18.4	17.4	26.2			90.8	86.2	124.7				
965 <sup>4</sup>	. 3,760,358	3,123,860	581,126	24,066		19.4	18.3	27.7			96.3	91.3	133.2				
964 4	. 4,027,490	3,369,160	607,556	24,382		21.1	20.0	29.5			104.7	99.8	142.6				
963 <sup>4, 6</sup>	. 4,098,020	3,326,344	580,658	22,358		21.7 22.4	20.7				108.3	103.6					
962 <sup>4, 6</sup> 961 <sup>4</sup>	4,167,362	3,394,068	584,610 611,072	21,968 21,464		22.4	21.4 22.2				112.0 117.1	107.5 112.3					
960 4			602,264	21,114		23.7	22.7	31.9			118.0	113.2	153.5				
Births Idjusted for Inderregi- Itration	. 4,237,000	3,000,744	002,204	21,114		20.7	22.1	31.3			110.0	110.2	100.0				
Race of child:																	
955	. 4,097,000	3,485,000				25.0	23.8				118.3	113.7					
950	. 3,632,000	3,108,000				24.1	23.0				106.2	102.3					
945						20.4	19.7				85.9	83.4					
1940	. 2,559,000	2,199,000				19.4	18.6				79.9	77.1					

<sup>---</sup> Data not available.

Tabla not available.

For 1960-91 includes births to races not shown separately.

Includes births to Aleuts and Eskimos.

Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

Based on a 50-percent sample of births.

Based on a 20- to 50-percent sample of births.

Figures by race exclude New Jersey.

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]

							A	Age of moth	er					
Live-birth order and	All	Under			15-19	years								
race of mother	ages	15 years	Total	15 years	16 years	17 years	18 years	19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
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		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		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 17.966	-	11 9	-	1	1	3	6 8	632	3,455	5,860	5,346	1,841	129 389
Eighth child and over		72	-	164	371	528	749	933	247	1,975	5,077	6,802	3,467 618	389
Not stated	23,142	12	2,745	164	3/1	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		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	-	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	-	- 445	450	-	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 <sup>1</sup>	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	-	-	1	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	1
Seventh child	459	-	-	-	-	-	-	-	12	108	178	126	33	2
Eighth child and over	429	-	-	-	-	-	-	-	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 1.332	-	2	-	-	-	1	1	33 12	238 182	297 388	216	102 248	19 79
Eighth child and over  Not stated	912	-	34	-	6	7	10	11	126	269	309	423 140	248 32	79 2
INUL SLALEU	912	-	34	-	О	1	10	1.1	120	209	309	140	32	2

<sup>-</sup> Quantity zero.

1 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	15-44		15-19 years								
	years <sup>1</sup>	10-14 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
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
		0.0									• • • •
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
	20.6 21.2	0.7					45.0 41.4				0.1
Second child		0.0 *	8.1	2.7	16.6	36.9		31.8	11.6	1.8	
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	8.0	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 shills	07.0	0.5	05.0	54.4	00.7	54.0	00.5	40.0	F 4	0.0	0.0
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 <sup>2</sup>	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	*
		*	*	*	*		4.4				*
Sixth and seventh child	2.6				*	0.8		5.8	3.6	1.0	
Eighth child and over	8.0	â	2	•	•	•	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	8.0
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	*
	1.2	*	*	*	*	1.0	1.7	1.9	1.6	0.7	0.1
Fifth child		*	*	*	*						
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	8.0	0.9	0.6	0.2

<sup>\*</sup> Figure does not meet standards of reliability or precision.

<sup>0.0</sup> 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.

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]

	Total fertility	Age of mother												
Year and race		40		15-19 years						40	45.40			
	rate	10-14 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years			
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 1993	2,036.0 2,046.0	1.4 1.4	58.9	37.6 37.8	91.5 92.1	111.1 112.6	113.9 115.5	81.5	33.7 32.9	6.4 6.1	0.3 0.3			
1992	2,046.0	1.4	59.6 60.7	37.8 37.8	94.5	114.6	117.4	80.8 80.2	32.5	5.9	0.3			
1991	2,003.0	1.4	62.1	38.7	94.4	115.7	118.2	79.5	32.0	5.5	0.3			
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			
1984 <sup>2</sup> 1983 <sup>2</sup>	1,806.5	1.2	50.6	31.0	77.4 77.4	106.8	108.7	67.0	22.9	3.9	0.2			
1983 <sup>2</sup> 1982 <sup>2</sup>	1,799.0 1,827.5	1.1 1.1	51.4 52.4	31.8 32.3	77.4 79.4	107.8 111.6	108.5 111.0	64.9 64.1	22.0 21.2	3.9 3.9	0.2 0.2			
1981 <sup>2</sup>	1,812.0	1.1	52.4 52.2	32.3 32.0	79.4 80.0	111.0	111.5	61.4	20.0	3.8	0.2			
1980 2	1,839.5	1.1	53.0	32.5	82.1	115.1	112.9	61.9	19.8	3.9	0.2			
1979 <sup>2</sup>	1,808.0	1.2	52.3	32.3	81.3	112.8	111.4	60.3	19.5	3.9	0.2			
1978 <sup>2</sup>	1,760.0	1.2	51.5	32.2	79.8	109.9	108.5	57.8	19.0	3.9	0.2			
1977 <sup>2</sup>	1,789.5	1.2	52.8	33.9	80.9	112.9	111.0	56.4	19.2	4.2	0.2			
1976 <sup>2</sup>	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			
1974 2	1,835.0	1.2	57.5	37.3	88.7	117.7	111.5	53.8	20.2	4.8	0.3			
1973 2	1,879.0	1.2	59.3	38.5	91.2	119.7	112.2	55.6	22.1	5.4	0.3			
1972 <sup>2</sup> 1971 <sup>3</sup>	2,010.0	1.2	61.7	39.0	96.9	130.2	117.7	59.8	24.8	6.2	0.4			
1971 <sup>3</sup> 1970 <sup>3</sup>	2,266.5 2,480.0	1.1 1.2	64.5 68.3	38.2 38.8	105.3 114.7	150.1 167.8	134.1 145.1	67.3 73.3	28.7 31.7	7.1 8.1	0.4 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 1993	1,985.0 1,982.0	0.8 0.8	51.1 51.1	30.7 30.3	82.1 82.1	106.2 106.9	115.5 116.6	83.2 82.1	33.7 32.7	6.2 5.9	0.3 0.3			
1992	1,902.0	0.8	51.8	30.3	83.8	108.2	118.4	81.4	32.7	5.7	0.3			
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			
1984 <sup>2</sup>	1,748.5	0.6	42.9	24.3	68.4	102.7	109.8	67.7	22.2	3.6	0.2			
1983 <sup>2</sup>	1,740.5 1,767.0	0.6 0.6	43.9 45.0	25.0 25.5	68.8 70.8	103.8 107.7	109.4 111.9	65.3 64.0	21.3 20.4	3.6 3.6	0.2 0.2			
1981 <sup>2</sup>	1,767.0	0.6	45.0 44.9	25.5 25.4	70.6 71.5	107.7	111.9	61.0	20.4 19.0	3.6	0.2			
1980 <sup>2</sup>	1,773.0	0.6	45.4	25.5	73.2	111.1	113.8	61.2	18.8	3.5	0.2			
Black	0.444.0	2.2	0.4.4	o	400 =	4000	60.0	60.0	66.4	2.4	2 -			
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 1993	2,300.0 2,384.5	4.6 4.6	104.5 108.6	76.3 79.8	148.3 151.9	146.0 152.6	104.0 108.4	65.8 67.3	28.9 29.2	5.9 5.9	0.3 0.3			
1993	2,364.5 2,442.0	4.6 4.7	112.4	79.6 81.3	151.9	152.6	111.2	67.5	29.2 28.8	5.9 5.6	0.3			
1991	2,442.0	4.7	115.5	84.1	157.9	160.9	111.2	67.5	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			
1984 <sup>2</sup>	2,070.5	4.4	94.1	69.2	128.1	132.2	98.4	56.7	23.3	4.8	0.2			
1983 2	2,066.0	4.1	93.9	69.6	127.1	131.9	98.4	56.2	23.3	5.1	0.3			
	2 106 5	4.0	94.3	69.7	128.9	135.4	101.3	57.5	23.3	5.1	0.4			
1982 <sup>2</sup> 1981 <sup>2</sup>	2,106.5 2,117.5	4.0	94.5	69.3	131.0	136.5	102.3	57.4	23.1	5.4	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		Age of mother												
	Total fertility	40.44	15-19 years			20.24	25.22	20.24	25.20	40.44	45.40			
	rate	10-14 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years			
American Indian <sup>4</sup>														
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	2,163.0	1.5	82.7	51.6	128.9	152.4	114.2	64.8	27.4	6.4	*			
1988	2,153.5	1.7	77.5	49.7	120.9	145.2	110.9	64.5	25.6	5.3	*			
1987	2,133.3	1.7	77.3 77.2	49.7	121.1	140.0	107.9	63.0	24.4	5.6	*			
	2,099.0	1.7	77.2 78.1	48.7	125.3	138.8	107.9	60.7	23.8	5.3	*			
1986 1985	2,062.0		76.1 79.2			139.1	107.9	62.6			*			
		1.7		47.7	124.1				27.4	6.0	*			
	2,136.0	1.7	81.5	50.7	124.7	142.4	109.2	60.5	26.3	5.6	*			
1983 2	2,180.5	1.9	84.2	55.2	121.4	145.5	113.7	58.9	25.5	6.4				
1982 <sup>2</sup>	2,213.0	1.4	83.5	52.6	127.6	148.1	115.8	60.9	26.9	6.0				
	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	27.1	16.0	43.3	73.3	119.9	103.2	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	120.3	100.3	47.0	10.7	1.0			
1988	1,983.5	0.6	24.2	13.6	39.6	80.7	124.0	102.3	47.5	10.2	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	22.4	12.1	38.8	79.2	119.9	92.6	41.9	9.3	1.0			
1985	1,885.0	0.4	23.8	12.1	40.8	83.6	123.0	93.6	42.7	9.3 8.7	1.0			
1984 <sup>2</sup>	1,892.0	0.4	24.2	12.5	40.3	86.7	124.3	92.4	40.6	8.7	1.0			
1983 2	1,943.5	0.5	26.1	12.0	44.5	94.0	124.3	93.3	39.4	8.2	1.0			
1982 2	2,015.5	0.5	29.4	14.0	50.8	98.9	130.2	93.3 94.4	39.4	8.8	1.0			
1981 <sup>2</sup>	1,976.0	0.4	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	49.5 46.2	93.3	129.1	93.4 96.0	38.3	8.5	0.9			
1000	1,000.0	0.5	20.2	12.0	70.2	30.0	121.7	30.0	30.3	0.5	0.7			

<sup>\*</sup> 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.

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]

All races 1 1996		Fertility	Live-birth order											
1996	Year and race of mother		1	2	3	4	5	6 and 7	8 and over					
1996	All races 1													
1995		65.3	26.8	21 1	10.5	4 1	1.5	0.9	0.3					
1994														
1993														
1992														
1991														
1990														
1989														
1988														
1987														
1986														
1985														
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1881   2	1983	. 65.7												
White   Section   Sectio														
White	1981	. 67.3												
1996	1980 2	. 66.4	29.5	21.0	10.3	3.9	1.5	1.0	0.4					
1995       64.4       26.9       21.1       10.3       3.8       1.3       0.7       0.2         1994       64.9       27.0       21.4       10.4       3.8       1.3       0.8       0.2         1993       66.4       27.0       21.7       10.5       3.9       1.4       0.8       0.2         1992       66.5       27.3       22.0       10.8       4.0       1.4       0.8       0.2         1990       66.3       28.4       22.4       11.1       4.0       1.4       0.8       0.2         1980       66.4       27.6       21.9       10.7       3.8       1.3       0.7       0.2         1988       66.4       27.6       21.9       10.7       3.8       1.3       0.7       0.2         1986       64.5       26.8       21.6       10.4       3.6       1.2       0.7       0.2         1986       63.1       26.6       21.3       19.0       3.5       1.2       0.7       0.2         1986       63.1       26.6       21.3       19.0       3.5       1.2       0.7       0.2         1985       64.1       27.0       21.8<		64.3	26.6	21.2	10.4	2.0	1 2	0.8	0.2					
1994														
1993														
1992       66.5       27.3       22.0       10.8       4.0       1.4       0.8       0.2         1991       67.0       27.8       22.0       10.8       4.0       1.4       0.8       0.2         1990       68.3       28.4       22.4       11.1       4.0       1.4       0.8       0.2         1989       66.4       27.6       21.9       10.7       3.8       1.3       0.7       0.2         1987       63.3       26.5       21.3       10.0       3.5       1.2       0.7       0.2         1986       63.1       26.6       21.3       10.0       3.5       1.2       0.7       0.2         1986       63.1       26.6       21.3       10.0       3.5       1.2       0.7       0.2         1986       63.1       27.0       21.8       9.9       3.4       1.2       0.7       0.2         1984 2       63.2       26.8       21.4       9.6       3.3       1.2       0.7       0.2         1982 2       63.4       27.2       21.2       9.5       3.3       1.2       0.7       0.2         1981 2       64.8       28.4       21														
1991       67.0       27.8       22.0       10.8       4.0       1.4       0.8       0.2         1990       68.3       28.4       22.4       11.1       4.0       1.4       0.8       0.2         1989       66.4       27.6       21.9       10.7       3.8       1.3       0.7       0.2         1986       64.5       26.8       21.6       10.4       3.6       1.2       0.7       0.2         1986       63.1       26.6       21.3       19.8       3.4       1.2       0.7       0.2         1986       63.1       26.6       21.3       9.8       3.4       1.2       0.7       0.2         1985       64.1       27.0       21.8       9.9       3.4       1.2       0.7       0.2         1984       63.2       26.8       21.4       9.6       3.3       1.2       0.7       0.2         1984       63.2       26.8       21.4       9.6       3.3       1.2       0.7       0.2         1984       62       63.4       27.2       21.2       9.5       3.3       1.2       0.7       0.2         1982       64.8       28.4														
1990														
1989														
1988       64.5       26.8       21.6       10.4       3.6       1.2       0.7       0.2         1987       63.3       26.5       21.3       10.0       3.5       1.2       0.7       0.2         1986       63.1       26.6       21.3       9.8       3.4       1.2       0.7       0.2         1985       64.1       27.0       21.8       9.9       3.4       1.2       0.7       0.2         1984 2       63.2       26.8       21.4       9.6       3.3       1.2       0.7       0.2         1983 2       63.4       27.2       21.2       9.5       3.3       1.2       0.7       0.2         1982 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.2         1982 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.2         1981 2       64.8       28.8       21.3       9.6       3.4       1.2       0.7       0.3         1980 2       65.6       28.8       21.3       9.6       3.4       1.3       0.8       0.3         1991 5       3.4       1.3       9														
1987       63.3       26.5       21.3       10.0       3.5       1.2       0.7       0.2         1986       63.1       26.6       21.3       9.8       3.4       1.2       0.7       0.2         1985       64.1       27.0       21.8       9.9       3.4       1.2       0.7       0.2         1984 2       63.2       26.8       21.4       9.6       3.3       1.2       0.7       0.2         1982 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.2         1982 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.2         1982 2       64.8       28.4       21.1       9.5       3.4       1.2       0.7       0.3         1981 2       65.6       28.8       21.3       9.6       3.4       1.2       0.7       0.3         1980 2       65.6       28.8       21.3       9.6       3.4       1.2       0.8       0.3         1980 3       70.7       27.6       20.5       12.0       5.6       2.6       1.8       0.6         1995 4       76.9       29.8       <														
1986       63.1       26.6       21.3       9.8       3.4       1.2       0.7       0.2         1985       64.1       27.0       21.8       9.9       3.4       1.2       0.7       0.2         1984 2       63.2       26.8       21.4       9.6       3.3       1.2       0.7       0.2         1982 2       63.4       27.2       21.2       9.5       3.3       1.2       0.7       0.2         1982 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.2         1981 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.3         1981 2       64.8       28.8       21.3       9.6       3.4       1.2       0.8       0.3         1980 2       65.6       28.8       21.3       9.6       3.4       1.3       0.8       0.3         1980 5       72.3       28.7       20.5       12.0       5.6       2.6       1.8       0.6         1994 7       70.7       27.6       20.5       12.0       5.7       2.6       1.8       0.6         1995 7       72.3       28.7														
1985       64.1       27.0       21.8       9.9       3.4       1.2       0.7       0.2         1984 2       63.2       26.8       21.4       9.6       3.3       1.2       0.7       0.2         1983 2       63.4       27.2       21.2       9.5       3.3       1.2       0.7       0.2         1982 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.3         1981 2       64.8       28.4       21.1       9.5       3.4       1.2       0.8       0.3         1980 2       65.6       28.8       21.3       9.6       3.4       1.2       0.8       0.3         1980 2       65.6       28.8       21.3       9.6       3.4       1.2       0.8       0.3         1980 2       65.6       28.8       21.3       9.6       3.4       1.2       0.8       0.3         1980 2       80.5       30.2       23.7       12.0       5.6       2.6       1.8       0.6         1994 3       76.9       29.8       22.2       13.1       6.3       2.9       2.0       0.6         1993 4       76.9       29.8														
1984 2       63.2       26.8       21.4       9.6       3.3       1.2       0.7       0.2         1982 2       63.4       27.2       21.2       9.5       3.3       1.2       0.7       0.2         1982 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.3         1981 2       64.8       28.4       21.1       9.5       3.4       1.2       0.8       0.3         Black         Black         Black         1996       70.7       27.6       20.5       12.0       5.6       2.6       1.8       0.6         1995       72.3       28.7       20.7       12.0       5.7       2.6       1.8       0.6         1994       76.9       29.8       22.2       13.1       6.3       2.9       2.0       0.6         1993       80.5       30.2       23.4       14.1       6.9       3.1       2.2       0.7         1992       83.2       30.6       24.3       15.0       7.2       3.3       2.2       0.6         1991       85.2       31.5       25.0       15.4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>														
1983 2       63.4       27.2       21.2       9.5       3.3       1.2       0.7       0.2         1982 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.3         1981 2       64.8       28.4       21.1       9.5       3.4       1.2       0.8       0.3         Black         Type Colspan="6">Type Colspan="6">Typ														
1982 2       64.8       28.0       21.6       9.6       3.4       1.2       0.7       0.3         1981 2       64.8       28.4       21.1       9.5       3.4       1.2       0.8       0.3         Black         Black         1996       70.7       27.6       20.5       12.0       5.6       2.6       1.8       0.6         1995       72.3       28.7       20.7       12.0       5.7       2.6       1.8       0.6         1995       72.3       28.7       20.7       12.0       5.7       2.6       1.8       0.6         1995       76.9       29.8       22.2       13.1       6.3       2.9       2.0       0.6         1994       76.9       29.8       22.2       13.1       6.3       2.9       2.0       0.6         1993       80.5       30.2       23.4       14.1       6.9       3.1       2.2       0.7         1992       83.2       30.6       24.3       15.0       7.2       3.3       2.2       0.6         1991       85.2       31.5       25.0       15.4       7.4       3.2       2.0<														
1981 2       64.8       28.4       21.1       9.5       3.4       1.2       0.8       0.3         1980 2       65.6       28.8       21.3       9.6       3.4       1.3       0.8       0.3         Black         1996       70.7       27.6       20.5       12.0       5.6       2.6       1.8       0.6         1995       72.3       28.7       20.7       12.0       5.7       2.6       1.8       0.6         1994       76.9       29.8       22.2       13.1       6.3       2.9       2.0       0.6         1993       80.5       30.2       23.4       14.1       6.9       3.1       2.2       0.7         1992       83.2       30.6       24.3       15.0       7.2       3.3       2.2       0.6         1991       85.2       31.5       25.0       15.4       7.4       3.3       2.1       0.6         1980       86.8       32.4       25.6       15.6       7.4       3.2       2.0       0.6         1989       86.2       32.9       25.4       15.3       7.1       3.0       1.9       0.6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
Black														
Black     1996	1981 2	. 64.8												
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1980 2	. 65.6	28.8	21.3	9.6	3.4	1.3	0.8	0.3					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		70.7	27.6	20 F	12.0	E G	2.6	1.0	0.6					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														
1992     83.2     30.6     24.3     15.0     7.2     3.3     2.2     0.6       1991     85.2     31.5     25.0     15.4     7.4     3.3     2.1     0.6       1990     86.8     32.4     25.6     15.6     7.4     3.2     2.0     0.6       1989     86.2     32.9     25.4     15.3     7.1     3.0     1.9     0.6       1988     82.6     31.8     24.6     14.4     6.6     2.8     1.8     0.5       1987     80.1     31.2     23.8     13.9     6.3     2.7     1.7     0.5       1986     78.9     31.0     23.4     13.5     6.1     2.6     1.7     0.5       1985     78.8     31.0     23.4     13.4     6.1     2.6     1.7     0.5       1984 <sup>2</sup> 78.1     30.9     23.0     13.2     6.0     2.6     1.7     0.6       1983 <sup>2</sup> 78.7     31.1     23.1     13.2     6.1     2.7     1.8     0.6       1982 <sup>2</sup> 80.9     31.7     23.9     13.8     6.3     2.7     1.8     0.6       1981 <sup>2</sup> 82.0     32.3     24.2     13.7     6.3     2.8 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														
1989     86.2     32.9     25.4     15.3     7.1     3.0     1.9     0.6       1988     82.6     31.8     24.6     14.4     6.6     2.8     1.8     0.5       1987     80.1     31.2     23.8     13.9     6.3     2.7     1.7     0.5       1986     78.9     31.0     23.4     13.5     6.1     2.6     1.7     0.5       1985     78.8     31.0     23.4     13.4     6.1     2.6     1.7     0.5       1984 2     78.1     30.9     23.0     13.2     6.0     2.6     1.7     0.6       1983 2     78.7     31.1     23.1     13.2     6.1     2.7     1.8     0.6       1982 2     80.9     31.7     23.9     13.8     6.3     2.7     1.8     0.6       1981 2     82.0     32.3     24.2     13.7     6.3     2.8     1.9     0.8														
1988     82.6     31.8     24.6     14.4     6.6     2.8     1.8     0.5       1987     80.1     31.2     23.8     13.9     6.3     2.7     1.7     0.5       1986     78.9     31.0     23.4     13.5     6.1     2.6     1.7     0.5       1985     78.8     31.0     23.4     13.4     6.1     2.6     1.7     0.5       1984 2     78.1     30.9     23.0     13.2     6.0     2.6     1.7     0.6       1983 2     78.7     31.1     23.1     13.2     6.1     2.7     1.8     0.6       1982 2     80.9     31.7     23.9     13.8     6.3     2.7     1.8     0.6       1981 2     82.0     32.3     24.2     13.7     6.3     2.8     1.9     0.8														
1987     80.1     31.2     23.8     13.9     6.3     2.7     1.7     0.5       1986     78.9     31.0     23.4     13.5     6.1     2.6     1.7     0.5       1985     78.8     31.0     23.4     13.4     6.1     2.6     1.7     0.5       1984 2     78.1     30.9     23.0     13.2     6.0     2.6     1.7     0.6       1983 2     78.7     31.1     23.1     13.2     6.1     2.7     1.8     0.6       1982 2     80.9     31.7     23.9     13.8     6.3     2.7     1.8     0.7       1981 2     82.0     32.3     24.2     13.7     6.3     2.8     1.9     0.8														
1986     78.9     31.0     23.4     13.5     6.1     2.6     1.7     0.5       1985     78.8     31.0     23.4     13.4     6.1     2.6     1.7     0.5       1984 2     78.1     30.9     23.0     13.2     6.0     2.6     1.7     0.6       1983 2     78.7     31.1     23.1     13.2     6.1     2.7     1.8     0.6       1982 2     80.9     31.7     23.9     13.8     6.3     2.7     1.8     0.7       1981 2     82.0     32.3     24.2     13.7     6.3     2.8     1.9     0.8														
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
1983 2     78.7     31.1     23.1     13.2     6.1     2.7     1.8     0.6       1982 2     80.9     31.7     23.9     13.8     6.3     2.7     1.8     0.7       1981 2     82.0     32.3     24.2     13.7     6.3     2.8     1.9     0.8														
1982 <sup>2</sup>	1984	. /8.1												
1981 <sup>2</sup>	1983	. /8./												
1980 <sup>2</sup>	1980	. 84.9	33.7	24.7	14.0	6.5	2.9	2.1	0.9					

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

NOTE: Race and Hispanic origin are reported separately on 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

					Non-Hispanic					
Measure and year	All origins <sup>1</sup>	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	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
1992 3	4,049,024	643,271	432,047	59,569	11,472	89,031	51,152	3,365,862	2,527,207	657,450
1991 3	4,094,566	623,085	411,233	59,833	11,058	86,908	54,053	3,434,464	2,589,878	666,758
1990 4	4,092,994	595,073	385,640	58,807	11,311	83,008	56,307	3,457,417	2,626,500	661,701
1989 <sup>5</sup>	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 <sup>6</sup>						_				
1996	14.7	24.8	27.4	17.9	10.7	<sup>7</sup> 23.4		13.5	12.4	18.3
1995	14.8	25.2	26.9	19.7	11.0	<sup>7</sup> 25.3		13.7	12.6	18.8
1994	15.2	25.5	27.0	21.4	10.8	<sup>7</sup> 25.7		14.0	12.8	20.0
1993	15.5	26.0	27.4	21.9	10.5	<sup>7</sup> 26.9		14.4	13.1	21.1
1992 3	15.9	26.5	27.8	23.2	10.1	<sup>7</sup> 27.9		14.8	13.5	21.9
1991 8	16.3	26.7	29.2	21.0	10.1	<sup>7</sup> 26.5		15.2	13.9	22.5
1990 4	16.7	26.7	28.7	21.6	10.9	<sup>7</sup> 27.5		15.7	14.4	23.0
1989 5	16.3	26.2	25.7	23.7	10.0	<sup>7</sup> 28.3		15.4	14.2	22.8
Fertility rate <sup>9</sup>										
1996	65.3	104.9	119.3	71.3	58.9	<sup>7</sup> 90.2		60.3	57.3	72.5
1995	65.6	105.0	117.0	75.7	55.1	<sup>7</sup> 94.5		60.8	57.6	74.5
1994	66.7	105.6	115.4	81.9	55.9	<sup>7</sup> 97.7		62.0	58.3	79.0
1993	67.6	106.9	114.8	82.5	55.5	<sup>7</sup> 105.0		63.1	59.0	82.7
1992 <sup>3</sup>	68.9	108.6	116.0	89.9	50.3	<sup>7</sup> 107.0		64.4	60.2	85.5
1991 <sup>8</sup>	69.6	108.1	121.6	80.9	49.1	<sup>7</sup> 99.3		65.4	61.0	87.6
1990 <sup>4</sup>	71.0	107.7	118.9	82.9	52.6	<sup>7</sup> 102.7		67.1	62.8	89.0
1989 <sup>5</sup>	69.2	104.9	106.6	86.6	49.8	<sup>7</sup> 95.8		65.7	60.5	84.8

Includes origin not stated.
 Includes races other than white and black.
 Excludes data for New Hampshire, which did not report Hispanic origin.
 Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.
 Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

<sup>6</sup> Live births per 1,000 population in specifed group.

<sup>7</sup> Includes Central and South American and other and unknown Hispanic.
8 Rates are estimated for the United States based on birth data for 49 States and the District of Columbia. Births for New Hampshire that did not report Hispanic origin,

are included in the rates for non-Hispanic women; see Technical notes.

9 Live births per 1,000 women aged 15-44 years in specified group.

NOTE: 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]

							Age	of mother							
Live-birth order and All origin of mother <sup>1</sup> ages			Under			15-19	years			20-24	25-29	30-34	35-39	40-44	45-49
		15 years	Total	15 years	16 years	17 years	18 years	19 years	years	years	years	years	years	years	
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 Third child	209,983 124,529	74 2	23,932 4,109	420 11	1,601 128	4,045 391	7,220 1,179	10,646 2,400	75,151 31,609	62,973 43,255	34,555 31,308	11,490 12,173	1,746 2,012	62 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 9,495	-	57 4	-	2	3	10 1	42 3	2,389 584	6,445 2,287	7,676 3,253	4,828 2,537	1,172 808	51 22	
Seventh child	4,196	-	2	-	-	-	i	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 Second child	181,056 144,241	2,179 50	64,674 17,746	5,445 313	10,438 1,189	14,220 2,982	16,481 5,349	18,090 7,913	67,124 56,525	31,392 43,484	11,647 19,843	3,392 5,719	626 852	22 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 39	-	3	26 3	103 7	246	6,991	14,123	12,955	6,039	1,000 854	48 34	
Fifth child	17,217 7,331	-	39		2	- -	1	27 2	1,737 431	4,965 1,764	5,957 2,522	3,631 1,962	636	13	
Seventh child	3,250	-	-	-	-	-	-	-	76	577	1,118	1,071	379	29	
Eighth child and over  Not stated	3,015 3,165	11	667	- 48	88	123	- 187	221	32 1,067	272 798	822 418	1,166 173	652 28	71 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 Third child	16,507 9,032	8	2,605 519	43	183 11	468 57	794 158	1,117 293	5,583 2,823	4,360 2,756	2,790 1,906	1,002 867	154 158	5 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 Seventh child	648 305	-	1 -	-	-	-	-	1	86 22	214 105	203 86	116 77	28 14	1	
Eighth child and over	277	-	1	-	-	-	-	1	5	60	113	78	19	i	
Not stated  Cuban	769 12,613	6 22	188 941	12 51	32 114	48 160	48 268	48 348	248 2,476	166 3,512	111 3,888	41 1,545	9 220	9	
First child	5,559	22	767	49	109	133	211	265	1,489	1,619	1,254	355	53	3	
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	476 123	-	1	-	-	-	-	1	34 11	97 20	170 44	149 39	24 9	1	
Sixth child	50		-		-	-	-	-	- ''	6	26	14	4		
Seventh child	27	-	-	-	-	-	-	-	-	4	13	9	1	-	
Eighth child and over  Not stated	23 45	-	2	-	-	-	2	-	14	3 8	13 13	6 6	1 2	-	
Central and South															
American	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 Second child	38,437 30,607	198 5	8,068 1,703	522 30	1,137 102	1,604 265	2,164 501	2,641 805	12,597 7,607	9,660 9,944	5,573 7,677	1,971	356 512	14 21	
Third child	17,199	5 1	259	-	9	265 25	74	151	2,749	5,405	5,592	3,138 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 Seventh child	1,000 396	-	-	-	-	-	-	-	33 7	186 61	345 124	320 153	107 45	9 6	
Eighth child and over Not stated	330 586	- 2	- 54	- 1	- 6	- 10	- 13	- 24	6 120	18 185	79 146	143 65	77 13	7 1	
Other and unknown	000	-	01	•	· ·	10	10		120	100	110	00	10		
Hispanic	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 11	6,800 1,725	598 32	1,090	1,584 306	1,727	1,801	5,699 4,707	3,465	2,040 2,659	688 1,040	110 156	6 9	
Second child	14,174 7,585	-	1,725 296	2	122 8	306	526 88	739 162	1,964	3,867 2,411	1,923	841	146	9	
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 Seventh child	466 218	-	2	-	-	-	1	1	34 10	117 66	157 59	125 59	33 21	1	
Eighth child and over	170 313	-	-	-	-	- 16	-	-	4 89	22 75	64	49 25	28	3	
Not stated		_	66	4	7		14	25			55				

See footnotes at end of table.

Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1996 --Con.

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

		Age of mother													
Live-birth order and	All	Under			15-19	years			20-24	25-29	30-34	35-39	40-44	45-49	
origin of mother <sup>1</sup>	ages	15 years	Total	15 years	16 years	17 years	18 years	19 years	years	years	years	years	years	years	
Non-Hispanic															
Total <sup>2</sup>	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	
TOtal	3,133,404	0,007	307,000	20,332	43,014	11,001	101,903	130,204	120,220	670,230	702,004	342,001	00,540	2,334	
First child		7,786	288,905	19,355	39,599	60,883	78,761	90,307	344,628	345,825	222,199		13,314	561	
Second child Third child	1,024,248 491,760	173 4	64,259 11,290	865 32	3,559 226	9,425 999	19,288 3,085	31,122 6,948	240,344 93,575	303,821 139,776	283,857 155,402	114,052	17,214 12,510	528 451	
Fourth child	181.194	1	1,624	32	24	999	3,065	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 6.727	-	8	-	-	1	- 1	7	450	2,723 831	5,451 2.261	5,064	1,488	59 63	
Eighth child and over	7.212	-	3 2	-	-	-	1	2	115 51	378	1.647	2,521 3.158	933 1.786	190	
Not stated	10,079	11	710	24	89	130	202	265	1,633	2,800	2,983	1,624	303	150	
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	- 31	6 730	- 54	106	133	206	6 231	133 984	958 902	1,712 670	1,434 360	502 70	29 2	
Not stated	3,749	31	730	54	106	133	206	231	984	902	670	300	70	2	

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.

Quantity zero.
 Includes only births with stated origin of mother.
 Includes races other than white and black.

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]

						Age o	f mother				
Live-birth order and origin of mother	15-44 years <sup>1</sup>	10-14		15-19 years		20-24	25-29	30-34	35-39	40-44	45-49
Ungili di motilei	years ·	years	Total	15-17 years	18-19 years	years	years	years	years	years	years
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	0.9	1.2	9.2	19.4	17.7	9.4	2.0	0.1
		*		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	20.0	v.9 *	5.5	17.8	10.8	24.4	41.6	35.2	13.2	2.1	*
			5.5	1.9	10.8						
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 <sup>2</sup>	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	*	*	*	*	v+	0.1	0.5	0.7	0.4	*
Ligitui Giliu aliu Over	0.3						0.1	0.5	0.7	0.4	

See footnotes at end of table.

Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1996 -- Con.

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

						Age of	f mother				
Live-birth order and	15-44	10-14		15-19 years		20-24	25-29	30-34	25 20	40-44	45-49
origin of mother	years <sup>1</sup>	years	Total	15-17 years	18-19 years	years	years	years	35-39 years	years	years
Non-Hispanic <sup>3</sup>											
Total <sup>4</sup>	60.3	1.0	47.3	28.7	76.2	98.4	106.5	82.0	34.2	6.5	0.3
First child	25.2 19.8 9.5 3.5 1.3 0.8 0.3	1.0 0.0 *	37.3 8.3 1.5 0.2 0.0 0.0	25.5 2.9 0.3 0.0 *	55.7 16.6 3.3 0.5 0.1 0.0	47.3 33.0 12.8 3.9 1.1 0.3 0.0	42.6 37.3 17.2 6.0 2.1 1.1 0.2	24.1 30.7 16.8 6.3 2.3 1.5 0.4	7.9 11.5 7.9 3.7 1.6 1.1 0.5	1.4 1.8 1.3 0.8 0.4 0.4 0.3	0.1 0.1 0.1 0.0 0.0 0.0
White	57.3	0.4	37.6	20.6	63.7	90.1	107.0	83.5	34.0	6.2	0.3
First child	24.2 19.4 9.0 3.1 1.0 0.5 0.2	0.4	31.1 5.7 0.7 0.1 0.0 *	19.1 1.5 0.1 0.0 *	49.7 12.2 1.7 0.2 0.0 *	46.3 30.7 10.2 2.3 0.5 0.1 0.0	44.7 38.5 16.6 5.1 1.5 0.6 0.1	25.0 32.0 17.2 6.0 2.0 1.1 0.2	8.1 11.6 8.0 3.6 1.4 0.9 0.4	1.5 1.8 1.3 0.7 0.4 0.3 0.2	0.1 0.1 0.1 0.0 0.0 0.0
Black	72.5	3.8	94.2	66.6	136.6	140.9	100.8	64.9	29.7	6.2	0.3
First child	28.3 21.1 12.3 5.8 2.7 1.8 0.6	3.7 0.1 * * *	67.8 20.5 4.8 0.8 0.1 0.0	56.0 9.5 1.1 0.1 *	86.1 37.5 10.7 2.0 0.3 0.0	52.6 46.0 25.9 11.0 3.9 1.4 0.1	27.1 32.0 21.4 10.8 5.2 3.5 0.8	14.2 20.2 14.5 7.5 4.0 3.3 1.2	5.2 8.2 6.9 4.1 2.3 2.0 1.0	0.9 1.4 1.4 0.9 0.6 0.6 0.4	0.0 0.1 0.0 0.0 0.0 0.0 0.0

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.

<sup>\*</sup> 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.

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]

							Age of	mother				
Year and origin/race	Total fertility	Fertility			15-19 years							
of mother	rate	rate <sup>1</sup>	10-14 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
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		66.7	1.4	58.9	37.6	91.5	111.1	113.9	81.5	33.7	6.4	0.3
1993		67.6	1.4	59.6	37.8	92.1	112.6	115.5	80.8	32.9	6.1	0.3
1992		68.9	1.4	60.7	37.8	94.5	114.6	117.4	80.2	32.5	5.9	0.3
1991		69.6	1.4	62.1	38.7	94.4	115.7	118.2	79.5	32.0	5.5	0.2
1990 1989		70.9 69.2	1.4 1.4	59.9 57.3	37.5 36.4	88.6 84.2	116.5 113.8	120.2 117.6	80.8 77.4	31.7 29.9	5.5 5.2	0.2 0.2
	_,											
Hispanic Total												
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		106.9	2.7	106.8	71.7	159.1	188.3	154.0	96.4	44.7	10.6	0.6
1992 2	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
1991 2		108.1	2.4	106.7	70.6	158.5	186.3	152.8	96.1	44.9	10.7	0.6
1990 <sup>3</sup>		107.7 104.9	2.4 2.3	100.3 100.8	65.9	147.7	181.0 184.4	153.0 146.6	98.3 92.1	45.3 43.5	10.9 10.4	0.7 0.6
	2,500.0	104.5	2.0	100.0			104.4	140.0	32.1	40.0	10.4	0.0
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		115.4	2.8	116.2	78.0	175.0	202.6	165.2	96.9	46.2	11.7	0.7
1993	3.174.0	114.8	2.6	108.7	71.6	164.9	196.6	168.2	100.5	46.1	11.3	0.8
1992 <sup>2</sup>	3 196 5	116.0	2.5	108.8			202.3	166.3	99.1	47.7	11.8	0.8
1991 <sup>2</sup>	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
1989 4	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		82.5	3.1	110.0	73.4	181.0	193.1	108.4	56.3	27.1	6.2	0.5
1992 2	2,644.5	89.9	3.5	110.4			204.9	106.6	66.7	30.0	6.5	0.3
1991 2	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 <sup>3</sup>	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
1989 <sup>4</sup>	2,421.0	86.6	3.8	112.7			171.0	98.0	65.2	26.9	6.3	0.3
Cuban		<b>5</b> 0.0			400		65.	440 =				*
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 1992 <sup>2</sup>	1,632.5 1,485.5	55.5 50.3	1.0	33.0 26.3	20.4	49.7 	68.9 51.6	102.0 98.4	86.9 86.2	31.0 28.9	4.7 4.7	0.0
1991 2	1,385.5	49.1	1.0	20.3	17.5	41.3	61.2	96.4 88.8	68.2	26.7	4.7	U.U *
1990 <sup>3</sup>	1,365.5	52.6	*	30.3	18.2	46.1	64.6	95.4	67.6	28.2	4.0	*
1989 4		49.8	0.5	25.1			64.2	101.8	73.7	27.2	3.0	0.3
Other Hispanic <sup>5</sup>												
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		105.0	2.7	106.9	78.2	141.7	175.2	147.1	110.4	52.4	12.5	0.5
1992 <sup>2</sup>		107.0	2.5	112.1			172.9	157.8	106.6	50.3	12.5	0.5
1991 <sup>2</sup>	2,817.0	99.3	2.1	88.1	58.9	128.8	161.1	150.6	101.5	48.2	11.2	0.6
1990 3	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
1989 4			1.7	66.4			159.2	150.4	85.1			

See footnotes at end of table.

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

							Age of	mother				
Year and race	Total fertilty	Fertility	10.11		15-19 years		20.04	25.00	20.04	25.00	40.44	45.40
	rate	rate <sup>1</sup>	10-14 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
Non-Hispanic <sup>6</sup>												
Total <sup>7</sup> 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
1991 2	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 <sup>4</sup>	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
1991 <sup>2</sup> 1990 <sup>3</sup>	1,826.5 1,850.5	61.0	0.5 0.5	43.4 42.5	23.6 23.2	70.5 66.6	95.7 97.5	112.7 115.3	77.9	30.2	4.7 4.7	0.2 0.2
1990 <sup>3</sup> 1989 <sup>4</sup>	1,850.5	62.8 60.5	0.5	42.5 39.9	23.2	00.0	97.5 94.7	111.7	79.4 75.0	30.0 27.8	4.7	0.2
1909	1,770.0	00.5	0.4	39.9			34.7	111.7	75.0	27.0	4.5	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
1991 <sup>2</sup>	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 <sup>3</sup> 1989 <sup>4</sup>	2,547.5 2,424.0	89.0 84.8	5.0 5.2	116.2 111.9	84.9	157.5 	165.1 156.3	118.4 113.8	70.2 65.7	28.7 26.3	5.6 5.3	0.3 0.3
1909	2,424.0	04.0	5.2	111.9			150.5	113.0	00.7	20.3	5.5	0.3

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.

Data not available.
Figure does not meet standards of reliability or precision.

0.0 Quantity more than zero but less that 0.05.
Rates computed by relating total births, regardless of age of mother, to women 15-44 years.
Excludes data for New Hampshire, which did not report Hispanic origin.
Standards data for New Hampshire and Oklahoma, which did not report Hispanic origin.
Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.
Includes Central and South American and other and unknown Hispanic.
Includes origin not stated.
Includes races other than white and black.

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]

						Teenage birth rat	e
				Total		15-19 years	
State	Number of births	Birth rate	Fertility rate	fertility rate	Total	15-17 years	18-19 years
United States <sup>1</sup>	3,891,494	14.7	65.3	2,027.0	54.4	33.8	86.0
Alabama	60,488	14.2	62.1	1,909.0	69.2	45.3	104.1
Alaska	10,037	16.5	71.7	2.359.5	46.4	26.5	75.2
Arizona	75,322	17.0	77.1	2,386.5	73.9	48.9	110.7
Arkansas	36,371	14.5	67.1	2,065.5	75.4	44.9	121.7
California	539,433	16.9	74.8	2,295.0	62.6	39.2	99.1
			63.6	2,295.0	49.5	30.2	
Colorado	55,807	14.6		,			79.7
Connecticut	44,469	13.6	61.7	1,870.5	37.4	24.4	58.3
Delaware	10,155	14.0	59.8	1,838.5	56.9	41.0	79.9
District of Columbia	8,390	15.4	62.3	1,998.0	102.1	79.0	132.5
Florida	189,392	13.2	64.5	2,035.0	58.9	36.7	94.1
Georgia	114,043	15.5	64.5	2,001.5	68.2	45.4	103.3
Hawaii	18,401	15.5	72.5	2,299.5	48.1	28.0	76.2
Idaho	18,625	15.7	71.3	2,272.0	47.2	26.5	77.7
Illinois	183,180	15.5	69.0	2,135.5	57.1	36.1	90.9
Indiana	83,513	14.3	62.8	1,956.5	56.1	32.9	91.4
lowa	37,139	13.0	60.5	1,908.0	37.8	21.4	63.6
Kansas	36,651	14.2	65.1	2,050.5	49.6	27.8	84.2
Kentucky	52,706	13.6	59.4	1,847.5	61.5	36.9	97.9
Louisiana	65,204	15.0	65.1	1,997.5	66.7	42.9	102.3
Maine	13,774	11.1	49.5	1,587.5	31.4	16.8	54.5
Maryland	71,533	14.1	60.1	1,859.5	46.1	29.6	72.3
Massachusetts	80,276	13.2	57.1	1,668.0	32.2	19.9	50.6
Michigan	133,387	13.9	61.1	1,904.5	46.5	28.2	75.5
Minnesota	63,700	13.7	60.6	1,894.0	32.1	18.5	54.2
Mississippi	40,987	15.1	65.6	1,962.5	75.5	52.1	110.5
Missouri	73,832	13.8	62.2	1,959.5	53.7	31.0	89.7
Montana	10,856	12.3	58.5	1,939.5	38.6	21.2	65.8
Nebraska	23,286	14.1	64.2	2,027.5	38.7	22.2	63.7
New Hampshire	26,125 14,520	16.3 12.5	75.5 53.3	2,411.5 1,654.0	69.6 28.6	42.1 15.1	113.5 50.9
	,			,			
New Jersey	114,306	14.3	64.9	1,981.5	35.4	22.9	55.3
New Mexico	27,228	15.9	71.6	2,276.5	70.9	45.8	110.7
New York	263,963	14.5	64.7	1,958.5	41.8	25.6	66.4
North Carolina	104,470	14.3	62.9	1,953.5	63.5	40.8	97.5
North Dakota	8,347	13.0	60.6	1,893.5	32.3	16.1	58.1
Ohio	151,692	13.6	60.3	1,884.5	50.4	29.5	82.6
Oklahoma	46,193	14.0	65.0	2,029.0	63.4	37.2	104.7
Oregon	43,658	13.6	62.7	2,031.0	50.8	29.4	84.7
Pennsylvania	148,338	12.3	57.0	1,776.0	39.3	24.5	62.5
Rhode Island	12,652	12.8	56.9	1,720.0	42.5	27.3	65.7
South Carolina	51,117	13.8	59.5	1,827.5	62.9	41.3	94.2
South Dakota	10,473	14.3	66.6	2,121.0	39.5	22.4	66.0
Tennessee	73,754	13.9	60.9	1,905.0	66.1	40.2	105.8
Texas	330,406	17.3	75.0	2,321.0	73.5	48.8	111.3
Utah	42,087	21.0	89.0	2,656.0	42.8	24.3	68.6
Vermont	6,767	11.5	50.2	1,580.0	30.1	15.2	54.1
Virginia	92,354	13.8	58.4	1,784.5	45.5	27.7	71.6
Washington	77,945	14.1	62.0	1,977.0	45.0	26.1	74.5
West Virginia	20,750	11.4	52.5	1,632.5	50.3	28.7	81.9
Wisconsin	67,106	13.0	58.3	1,821.0	36.8	21.7	60.7
Wyoming	6,286	13.0	59.8	1,960.0	30.6 44.0	24.9	74.9
Puerto Rico	63,141	16.7	70.8	2,023.5	74.8	55.6	102.7
Puerto Rico	1,905		70.8 76.1	2,023.5 2,328.5	74.8 54.9	35.0	84.9
Virgin Islands		16.8					
Guam	4,259	29.4	135.1	3,983.5	116.8	69.5	191.5

<sup>1</sup> Excludes data for Puerto Rico, Virgin Islands, and Guam.

Table 11. Live births by race of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 1996

[By place of residence]

<u>_</u>			Number		
State	All races	White	Black	American Indian <sup>1</sup>	Asian or Pacific Islander
United States <sup>2</sup>	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 26 227	285	245
Illinois	183,180	140,435	36,237	235	6,273
Indiana	83,513	73,646	8,827	121 200	919 748
lowa Kansas	37,139 36,651	35,143 32,769	1,048 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	43,658 148,338	40,436 124,262	893 20,581	672 219	1,657 3,276
PennsylvaniaRhode 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	<del></del>	
Virgin Islands	1,905	350	1,503	46	6
Guam	4,259	427	48	7	3,777

<sup>---</sup> Data not available.

1 Includes births to Aleuts and Eskimos.

2 Excludes data for Puerto Rico, Virgin Islands, and Guam.

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]

						Origin of mot	ther				
-	All			Hispa	anic			٨	lon-Hispanic		Not
State	origins	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>1</sup>	White	Black	stated
United States <sup>2</sup>	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	319 292	3,808	88	1,130	306	36,700	30,617	4,845	2,118
Delaware District of Columbia	10,155 8,390	660 777	33	249 10	2	90 688	27 45	9,475 7,530	6,899 1,247	2,348 6,131	20 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	4,080 367	109 62	3,014 288	247 697	71,608	62,052	5,886 23.792	936 6,464
Michigan Minnesota	133,387 63,700	5,050 2,324	3,636 1,768	83	18	232	223	121,873 57,385	94,990 50.726	3,049	3,991
Mississippi	40,987	2,324	136	17	11	232	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	56 475	91	8,179	13,971	10,085	439	27 442
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 North Dakota	104,470 8,347	5,433 137	3,867 78	445 7	91 2	799 14	231 36	99,001 8,067	68,481 7,135	27,029 86	36 143
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 5 150	4 022	10	1	3.056	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 West Virginia	77,945 20,750	8,930 125	7,296 51	198 9	20 3	237 10	1,179 52	66,585 20,610	56,950 19,757	2,886 738	2,430 15
Wisconsin	67,106	3,139	2,319	580	10		72	63,948	54,863	6,386	19
Wyoming	6,286	523	421	11	2		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

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.

<sup>-</sup> Quantity zero.
---- Data not available.

1 Includes races other than white and black.
2 Excludes data for Puerto Rico, Virgin Islands, and Guam.

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

<b>2</b> 1	All	1477	5	American			Asian or Pac	ific Islander		
Characteristic	races	White	Black	Indian <sup>1</sup>	Total	Chinese	Japanese	Hawaiian	Filipino	Other
					Num	ber				
Births	3,891,494	3,093,057	594,781	37,880	165,776	28,500	8,902	5,907	31,106	91,361
					Ra	te				
Birth rate <sup>2</sup>	14.7	14.1	17.8	16.6	17.0					
Fertility rate <sup>3</sup> Total fertility rate <sup>4</sup>	65.3 2,027.0	64.3 2,005.5	70.7 2,144.0	68.7 2,030.0	65.9 1,907.5					
Sex Ratio <sup>5</sup>	1,047	1,050	1,028	1,031	1,061	1,090	1,053	1,062	1,061	1,053
					Perc	ent				
All births										
Births to mothers under 20 years	12.9	11.3	22.8	20.9	5.3	0.9	2.5	18.4	6.1	5.8
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	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	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	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	58.7	49.8	79.4	74.3	84.5	86.2	98.2	83.8	93.7	80.3

<sup>---</sup> Data not available.

1 Includes births to Aleuts and Eskimos.

2 Rate per 1,000 population.

3 Rate per 1,000 women aged 15-44 years.

4 Rates are sums of birth rates for 5-year age groups multiplied by 5.

5 Male live births per 1,000 female live births.

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

				Hispa	anic				Non-Hispanic	
Characteristic	All origins <sup>1</sup>	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	White	Black
					Nu	mber				
Births	3,891,494	701,339	489,666	54,863	12,613	97,888	46,309	3,133,484	2,358,989	578,099
					R	ate				
Birth rate <sup>3</sup> Fertility rate <sup>4</sup> Total fertility rate <sup>5</sup>	14.7 65.3 2,027.0	24.8 104.9 3,047.5	27.4 119.3 3,353.5	17.9 71.3 2,163.0	10.7 58.9 1,774.5	<sup>7</sup> 23.4 <sup>7</sup> 90.2 <sup>7</sup> 2,762.0		13.5 60.3 1,881.0	12.4 57.3 1,795.5	18.3 72.5 2,204.0
Sex Ratio <sup>6</sup>	1,047	1,041	1,039	1,037	1,044	1,046	1,058	1,048	1,053	1,027
					Pe	rcent				
All births										
Births to mothers under 20 years Fourth- and higher-order births Births to unmarried mothers	12.9 10.4 32.4	17.4 13.8 40.7	18.1 14.9 37.9	23.1 12.3 60.7	7.6 5.6 24.7	10.5 11.4 44.1	19.8 11.3 43.5	12.0 9.7 30.6	9.7 8.3 21.5	23.0 15.0 70.0
Mothers completing 12 years or more of school	77.6	48.6	42.3	61.9	85.5	59.2	67.0	83.9	87.0	72.0
D.C	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	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 Mothers completing 12 years or	29.2	36.6	33.3	57.4	24.7	43.8	34.0	19.0	13.6	45.2
more of school	58.7	39.2	30.2	61.7	84.7	57.6	61.7	86.1	89.9	81.6

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.

<sup>1</sup> Includes origin not stated.
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.

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]

		Number		Obs	served	Seasonall	y adjusted <sup>1</sup>
Month	All races <sup>2</sup>	White	Black	Birth rate	Fertility rate	Birth rate	Fertility rate
otal	3,891,494	3,093,057	594,781	14.7	65.3		
anuary	314,283	246,948	50,605	14.0	62.2	14.8	65.2
ebruary	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
une	318,525	254,966	47,090	14.6	65.0	14.4	65.2
uly	345,162	274,643	53,053	15.3	68.2	14.8	65.2
ugust	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
lovember	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

<sup>...</sup> Category not applicable.

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

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

			I	ndex of occurrence	1	
Day of week and	Average number			Method	of delivery	
race of mother	of births	Total <sup>2</sup>	V- size!		Cesarean	
			Vaginal	Total	Primary	Repeat
All races <sup>3</sup>	10,632	100.0	100.0	100.0	100.0	100.0
Sunday	7,949 10,742 11,903 11,712	74.8 101.0 111.9 110.2	79.7 100.2 110.0 108.4	56.2 104.1 119.1 116.8	66.2 97.1 115.8 114.8	39.0 116.1 124.8 120.3
Thursday Friday Saturday	11,631 11,690 8,774	109.4 109.9 82.5	107.9 106.5 86.9	115.0 122.1 66.3	112.6 115.6 77.7	119.1 133.2 46.7
White Sunday Monday Tuesday Wednesday Thursday Friday Saturday	8,451 6,154 8,583 9,537 9,377 9,303 9,349 6,830	72.8 101.6 112.8 111.0 110.1 110.6 80.8	100.0 77.9 100.7 110.9 109.2 108.6 107.0 85.3	100.0 53.7 105.0 120.1 117.8 115.5 123.4 64.0	100.0 64.1 97.6 116.8 115.7 113.1 116.4 75.9	100.0 36.2 117.3 125.7 121.4 119.6 135.1 43.9
Black	1,625	100.0	100.0	100.0	100.0	100.0
Sunday Monday Tuesday Wednesday Thursday Friday Saturday	1,334 1,605 1,769 1,745 1,735 1,739 1,446	82.1 98.8 108.9 107.4 106.8 107.0 89.0	86.6 98.3 107.0 105.7 105.2 104.1 92.8	66.0 100.5 115.5 113.3 112.7 116.4 75.4	74.3 94.8 112.2 111.6 110.5 111.8 84.6	50.9 110.7 121.4 116.4 116.5 124.6 58.9

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

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

		И	/hite	В	lack	
Measure and age of mother	All races <sup>1</sup>	Total	Non-Hispanic	Total	Non-Hispanic	Hispanic <sup>2</sup>
Number						
All ages	1,260,306	795,432	508,157	415,213	404,575	285,501
Under 15 years	10,460	4,959	2,378	5,147	5,044	2,639
15-19 years	373,289	236,815	156,073	124,602	121,926	80,501
15 years	25,776	14,510	8,123	10,359	10,169	6,444
16 years	51,901	31,831	19,535	18,377	18,012	12,345
17 years	79,161	50,652	33,128	26,068	25,469	17,484
18 years	101,731	65,706	44,571	32,835	32,136	20,989
19 years	114,720	74,116	50,716	36,963	36,140	23,239
20-24 years	431,462	272,673	174,880	142,903	139,710	96,904
*	,	,	90,385	76,489	74,164	,
25-29 years	235,651	148,498	,	,	,	57,872
30-34 years	133,048	83,108	51,820	43,057	41,526	31,160
35-39 years	62,656	40,109	26,478	19,353	18,687	13,392
40 years and over	13,740	9,270	6,143	3,662	3,518	3,033
Rate per 1,000 unmarried						
women in specified group	44.0	07.0	00.0	74.4		00.0
15-44 years <sup>3</sup>	44.8	37.6	28.3	74.4		93.2
15-19 years	42.9	34.5	27.0	89.2		74.5
15-17 years	29.0	22.7	16.9	64.0		53.4
18-19 years	65.9	54.1	43.8	129.2		110.4
20-24 years	70.7	59.0	44.5	125.8		146.5
25-29 years	56.8	49.9	35.7	84.5		139.1
30-34 years	41.1	36.1	26.6	54.5		90.8
35-39 years	20.1	17.8	13.9	25.5		42.3
40-44 years <sup>4</sup>	4.8	4.3	3.3	6.1		12.3
Percent of births to						
unmarried women						
All ages	32.4	25.7	21.5	69.8	70.0	40.7
Under 15 years	93.8	89.7	93.9	99.1	99.2	86.4
15-19 years	75.9	68.7	69.3	95.4	95.5	67.7
	90.3	85.5	89.5	98.7	98.7	80.8
15 years	90.3 86.1	80.8	83.8	98.0	98.1 98.1	76.5
16 years						
17 years	81.7	75.6	77.6	97.4 05.5	97.5 05.6	72.1
18 years	75.3	68.3	69.3	95.5	95.6	66.2
19 years	67.2	59.3	59.1	92.0	92.2	59.9
20-24 years	45.6	37.5	34.4	79.7	79.9	45.2
25-29 years	22.0	16.9	13.2	57.4	57.5	31.2
30-34 years	14.8	11.1	8.4	45.7	45.6	26.0
35-39 years	15.7	12.2	9.6	44.3	44.2	26.9
40 years and over	18.4	15.3	12.5	43.5	43.4	29.6

Data not available.

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.

<sup>---</sup> 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.

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]

					Age of Mother	•			
Year and race	45.44		15-19 years		- 00.04	05.00	20.24	25.20	10.44
and Hispanic origin	15-44 years <sup>1</sup>	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years <sup>2</sup>
All races <sup>3</sup>									
996 <sup>4</sup>	44.8	42.9	29.0	65.9	70.7	56.8	41.1	20.1	4.8
995 <sup>4</sup>	45.1	44.4	30.5	67.6	70.3	56.1	39.6	19.5	4.7
994 <sup>4</sup>	46.9	46.4	32.0	70.1	72.2	59.0	40.1	19.8	4.7
93 4	45.3	44.5	30.6	66.9	69.2	57.1	38.5	19.0	4.4
992 <sup>4</sup>	45.2	44.6	30.4	67.3	68.5	56.5	37.9	18.8	4.1
991 <sup>4</sup>	45.2	44.8	30.9	65.7	68.0	56.5	38.1	18.0	3.8
990 4	43.8	42.5	29.6	60.7	65.1	56.0	37.6	17.3	3.6
989 <sup>4</sup>	41.6	40.1	28.7	56.0	61.2	52.8	34.9	16.0	3.4
		36.4	26.7 26.4		56.0				3.4
988 <sup>4</sup>	38.5			51.5		48.5	32.0	15.0	3.2 2.9
987 4	36.0	33.8	24.5	48.9	52.6	44.5	29.6	13.5	
986 4	34.2	32.3	22.8	48.0	49.3	42.2	27.2	12.2	2.7
985 4	32.8	31.4	22.4	45.9	46.5	39.9	25.2	11.6	2.5
984 4, 5	31.0	30.0	21.9	42.5	43.0	37.1	23.3	10.9	2.5
983 4, 5	30.3	29.5	22.0	40.7	41.8	35.5	22.4	10.2	2.6
982 4, 5	30.0	28.7	21.5	39.6	41.5	35.1	21.9	10.0	2.7
)81 <sup>4</sup> , 5	29.5	27.9	20.9	39.0	41.1	34.5	20.8	9.8	2.6
980 4, 5	29.4	27.6	20.6	39.0	40.9	34.0	21.1	9.7	2.6
980 <sup>5, 6</sup>	28.4	27.5	20.7	38.7	39.7	31.4	18.5	8.4	2.3
975 <sup>5, 6</sup>	24.5	23.9	19.3	32.5	31.2	27.5	17.9	9.1	2.6
970 6, 7	26.4	22.4	17.1	32.9	38.4	37.0	27.1	13.6	3.5
White, total									
996 <sup>4</sup>	37.6	34.5	22.7	54.1	59.0	49.9	36.1	17.8	4.3
995 <sup>4</sup>	37.5	35.5	23.6	55.4	58.0	48.7	34.2	16.9	4.2
994 <sup>4</sup>	38.3	36.2	24.1	56.4	58.1	49.7	34.2	17.3	4.3
993 <sup>4</sup>	35.9	33.6	22.1	52.4	54.2	46.7	32.2	16.4	3.9
992 4	35.2	33.0	21.6	51.5	52.7	45.4	31.5	16.2	3.6
991 4	34.6	32.8	21.8	49.6	51.5	44.6	31.1	15.2	3.2
990 4	32.9	30.6	20.4	44.9	48.2	43.0	29.9	14.5	3.2
									2.9
	30.2	28.0	19.3	40.2	43.8	39.1	26.8	13.1	
988 4	27.4	25.3	17.6	36.8	39.2	35.4	24.2	12.1	2.7
987 4	25.3	23.2	16.2	34.5	36.6	32.0	22.3	10.7	2.4
986 4	23.9	21.8	14.9	33.5	34.2	30.5	20.1	9.7	2.2
985 <sup>4</sup> 984 <sup>4</sup> , <sup>5</sup>	22.5	20.8	14.5	31.2	31.7	28.5	18.4	9.0	2.0
984 <sup>4, 5</sup>	20.6	19.3	13.7	27.9	28.5	25.5	16.8	8.4	2.0
983 4, 5	19.8	18.7	13.6	26.4	27.1	23.8	15.9	7.8	2.0
982 4, 5	19.3	18.0	13.1	25.3	26.5	23.1	15.3	7.4	2.1
981 <sup>4, 5</sup>	18.6	17.2	12.6	24.6	25.8	22.3	14.2	7.2	1.9
980 4, 5	18.1	16.5	12.0	24.1	25.1	21.5	14.1	7.1	1.8
White, non-Hispanic									
996 <sup>4</sup>	28.3	27.0	16.9	43.8	44.5	35.7	26.6	13.9	3.3
995 <sup>4</sup>	28.2	27.7	17.6	44.5	43.8	34.9	25.3	13.0	3.2
994 4	28.5	28.1	18.0	45.0	43.8	35.0	24.8	12.9	3.1
993 <sup>4</sup>	20.0	20.1					24.0	12.5	
992 4									
/UE									
991 <sup>4</sup>									

See footnotes at end of table.

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]

					Age of Mother	•			
Year and race	45.44		15-19 years			25.20	20.24	25.20	40.44
	15-44 years <sup>1</sup>	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years <sup>2</sup>
Black									
1996 4	74.4	89.2	64.0	129.2	125.8	84.5	54.5	25.5	6.1
1995 4	75.9	92.8	68.6	131.2	127.7	84.8	54.3	25.6	6.0
1994 <sup>4</sup>	82.1	100.9	75.1	141.6	138.1	93.6	57.2	26.3	5.9
1993 <sup>4</sup>	84.0	102.4	76.8	141.6	142.2	94.5	57.3	25.9	5.8
1992 4	86.5	105.9	78.0	147.8	144.3	98.2	57.7	25.8	5.4
1991 <sup>4</sup>	89.5	108.5	80.4	148.7	147.5	100.9	60.1	25.6	5.4
1990 <sup>4</sup>	90.5	106.0	78.8	143.7	144.8	105.3	61.5	25.5	5.1
1989 4	90.7	104.5	78.9	140.9	142.4	102.9	60.5	24.9	5.0
1988 4	86.5	96.1	73.5	130.5	133.6	97.2	57.4	24.1	5.0
1987 <sup>4</sup>	82.6	90.9	69.9	123.0	126.1	91.6	53.1	22.4	4.7
1986 4	79.0	88.5	67.0	121.1	118.0	84.6	50.0	20.6	4.4
1985 <sup>4</sup>	77.0	87.6	66.8	117.9	113.1	79.3	47.5	20.4	4.3
1984 <sup>4, 5</sup>	75.2	86.1	66.5	113.6	107.9	77.8	43.8	19.4	4.3
1983 <sup>4, 5</sup>	76.2	85.5	66.8	111.9	107.2	79.7	43.8	19.4	4.8
1982 4, 5	77.9	85.1	66.3	112.7	109.3	82.7	44.1	19.5	5.2
1981 <sup>4, 5</sup>	79.4	85.0	65.9	114.2	110.7	83.1	45.5	19.6	5.6
1980 <sup>4, 5</sup>	81.1	87.9	68.8	118.2	112.3	81.4	46.7	19.0	5.5
Hispanic <sup>9</sup>									
1996 4	93.2	74.5	53.4	110.4	146.5	139.1	90.8	42.3	12.3
1995 4	95.0	78.7	56.3	117.9	148.9	133.8	89.2	43.4	12.2
1994 <sup>4</sup>	101.2	82.6	59.0	123.6	154.8	141.6	95.5	48.4	14.0
1993 4	95.2	74.6	51.9	114.6	140.5	137.7	90.9	47.8	14.1
1992 4	95.3	72.9	51.0	110.5	142.2	138.3	91.8	48.1	14.5
1991 4	93.7	72.4	50.5	109.6	135.4	137.5	89.1	47.7	14.2
1990 4	89.6	65.9	45.9	98.9	129.8	131.7	88.1	50.8	13.7

Palea Incl available.
 Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.
 Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.
 Includes races other than white and black.

<sup>4</sup> Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see Technical notes

<sup>5</sup> 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.

<sup>7</sup> 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]

United States <sup>3</sup>	All aces 1 260,306 20,366 3,110 29,243 12,335	795,432 6,597	Non- Hispanic 508,157	Bla	Non- Hispanic	Hispanic <sup>2</sup>	All .	W	nite Non-	Bla	ack	
United States <sup>3</sup>	260,306 20,366 3,110 29,243	795,432 6,597	Hispanic			Hispanic <sup>2</sup>			Non-		Non	
Alabama	20,366 3,110 29,243	6,597	508,157				races 1	Total	Hispanic	Total	Non- Hispanic	Hispanic <sup>2</sup>
Alaska Arizona Arkansas	3,110 29,243			415,213	404,575	285,501	32.4	25.7	21.5	69.8	70.0	40.7
Arizona Arkansas	29,243		6,385	13,651	13,634	232	33.7	16.4	16.2	69.7	69.8	24.8
Arkansas		1,520	1,371	170	152	207	31.0	22.4	21.8	40.3	39.3	31.8
	12.333	23,818	10,032	1,503	1,437	14,051	38.8	36.0	26.0	64.2	63.9	50.4
	169,313	6,321 137,061	5,898 41,910	5,859 23,201	5,832 22,509	436 95,897	33.9 31.4	22.7 31.2	22.2 22.6	74.1 60.5	74.1 60.6	33.2 37.6
	13,863	11,826	6,888	1,496	1,410	5,013	24.8	23.2	17.8	58.1	57.5	40.5
	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
3	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
IdahoIllinois	3,969 61.743	3,754 32,994	3,068 20,135	24 28,193	22 28,053	632 12,974	21.3 33.7	20.8 23.5	19.6 18.7	32.0 77.8	30.6 77.9	29.0 39.5
	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 Maine	28,320 3,959	8,548 3,851	8,195 3,681	19,460 37	19,429 35	395 29	43.4 28.7	22.9 28.6	22.6 28.4	73.4 43.5	73.5 43.8	31.2 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
,	20,458	15,371	11,297	4,344	3,493	4,651	25.5	22.2	18.2	58.9	59.3	60.2
	45,052	25,878	21,768	18,487	18,230	2,109	33.8	24.4	22.9	76.5	76.6	41.8
	15,798	12,182	10,701	2,105	2,067	1,087	24.8	21.4	21.1	67.7	67.8	46.8
	18,463	4,000	3,915	14,262	14,258	84	45.0	18.6	18.5	75.2	75.2	30.2
	24,483	15,470	14,909	8,685	8,668	563	33.2	25.2	24.9	78.1	78.2	37.1
Montana Nebraska	3,026 5,765	2,180 4,594	1,976 3,765	16 861	14 854	106	27.9 24.8	22.9 21.5	22.2 19.8	71.5	71.6	35.6 39.7
	11,145	8,819	4,998	1,515	1,495	741 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
	31,959	17,624	8,476	13,712	12,997	9,621	28.0	20.4	12.6	66.8	67.6	49.5
	11,470	8,832	2,431	286	272	6,491	42.1	38.1	24.1	61.2	62.0	49.0
	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 North Dakota	33,419 2,099	14,069 1,528	12,173 1,437	18,252 22	18,200 21	1,942 46	32.0 25.1	19.1 20.6	17.8 20.1	67.3 24.7	67.3 24.4	35.7 33.6
	50,265	33,098	31,571	16,862	16,734	1,507	33.1	26.0	25.4	76.5	76.5	50.2
	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
•	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
	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
	24,645 100,573	12,601 74,748	12,178 26,585	11,769 24,609	11,743 24,408	443 48,256	33.4 30.4	22.3 26.5	22.1 19.1	73.5 63.3	73.5 63.4	31.1 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
	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 Wyoming	18,413 1,697	12,292 1,523	10,920 1,313	5,328 22	5,293 21	1,424 217	27.4 27.0	21.2 25.6	19.9 24.1	82.8 44.9	82.9 43.8	45.4 41.5
												0
Puerto Rico Virgin Islands	27,886 1,224	24,821 171	 35	3,055 1,045	952	 188	44.2 64.3	42.7 48.9	35.7	61.1 69.5	70.1	58.6
Guam	2,066	73	66	1,043	10	9	48.5	17.1	16.9	*	1 U. I	30.0

<sup>\*</sup> 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.

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]

V	45.54					Age of father				
Year and race of father	15-54 years <sup>1</sup>	15-19 years <sup>2</sup>	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years	55 years and over
All races 3										
1996	51.1	23.0	84.4	107.7	94.3	51.5	20.4	6.9	2.5	0.3
1995	52.0 53.2	24.3 25.0	86.0	107.2	93.3 93.3	51.0 50.9	20.3 20.2	7.1 7.2	2.6 2.6	0.3 0.3
1994 1993	53.2 54.4	25.0 24.8	87.3 87.1	108.8 110.8	93.5 93.5	50.9 51.1	20.2	7.2 7.3	2.6 2.7	0.3
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	116.4 114.3	97.8	53.0	21.0 20.4	7.5	2.8 2.7	0.4 0.6
1989 1988	57.2 55.8	21.9 19.6	85.4 82.4	114.3	94.8 93.2	51.3 49.9	20. <del>4</del> 19.9	7.4 7.1	2.7	0.6
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 55.0	18.0	81.2	112.3	91.1	47.3	18.1	6.6	2.5	0.4
1984 <sup>4</sup>	55.0 55.1	17.8 18.2	80.7 82.6	111.4 113.0	89.9 89.1	46.0 45.2	17.8 17.4	6.3 6.4	2.4 2.3	0.4 0.4
1983 <sup>4</sup> 1982 <sup>4</sup> 1981 <sup>4</sup>	56.4	18.6	86.5	117.3	90.3	44.5	17.5	6.4	2.3	0.4
1981 4	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 50.9	19.8 19.2	78.5 77.9	106.4 108.0	92.5 92.4	49.3 49.2	18.9 18.6	6.3 6.4	2.2 2.2	0.3 0.2
1993 1992	52.2	18.9	77.9 78.2	110.1	93.2	49.3	18.8	6.4	2.2	0.2
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 1988	53.3 52.2	16.7 14.8	75.9 73.7	110.8 108.3	93.0 91.2	49.1 47.6	18.7 18.1	6.3 6.1	2.1 2.1	0.4 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 <sup>4</sup> 1983 <sup>4</sup>	51.8 52.0	14.0 14.4	74.3 76.3	108.8 110.2	87.9 86.8	43.5 42.6	16.0 15.5	5.3 5.3	1.9 1.8	0.3 0.3
1982 4	53.1	14.9	80.1	114.2	87.5	41.7	15.6	5.3	1.9	0.3
1981 4	52.9	15.0	81.7	115.8	85.8	40.3	15.0	5.2	1.8	0.3
1980 4	53.4	15.4	84.9	119.4	87.8	39.7	15.0	5.1	1.8	0.3
Black										
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 1.1
1994 1993	74.9 78.3	54.6 56.6	150.5 153.8	131.9 136.0	92.9 95.3	54.2 56.6	26.4 27.7	13.0 13.5	6.0 6.4	1.1
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 84.1	55.2 52.9	158.2	144.9	103.2	60.4	31.1	15.0 14.9	7.1	1.4 2.7
1989 1988	84.1 80.7	52.9 48.1	153.4 144.1	143.5 137.9	101.4 100.0	59.9 58.0	31.1 30.6	14.9	6.9 6.9	2.7 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 76.7	41.8 40.9	129.5	132.7	97.3	59.4	29.5 29.3	13.3	6.5 6.1	1.2 1.2
1984 <sup>4</sup> 1983 <sup>4</sup>	76.7 77.2	40.9 40.7	128.0 129.1	132.2 134.4	98.3 99.0	58.4 59.6	29.3 29.6	13.3 13.5	6.1 6.0	1.2 1.2
1982 4	79.5	40.7	133.4	141.2	103.6	61.1	29.6	13.9	6.0	1.2
1981 <del>4</del>	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

<sup>1</sup> Rates computed by relating total births, regardless of age of father, to men aged 15-54 years.
Rates computed by relating births of fathers under 20 years of age to men aged 15-19 years.
Includes races other than white and black.
Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

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

	_		Year	s of school com	pleted by moth	er		Percent	Percent
Age and race of mother	Total	0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not Stated	12 years or more	16 years or more
All races <sup>1</sup>									
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	100,021	22,207	_	758	- 00.4	_
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	
	135,059	9,102	65,114	54,853	3,949	-	2,041	44.2	_
18 years						-		60.2	-
19 years	170,797	10,527	56,451	83,413	17,982	47.004	2,424		
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	_	_	_	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
	878,449	48,504	78,562	284,959	226,946	229,276	10,202	85.4	26.4
25-29 years	747,436	33,179	37,850	192,765	226,946 179,995	229,276 294,919	8,728	90.4	26.4 39.9
30-34 years			14.164						
35-39 years	329,782	16,931	, -	79,655	74,209	140,416	4,407	90.4	43.2
10 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	1,513	9.680	33.483	27,524	19.898	2,033	87.8	21.6
	43,716	1,067	4,303	14,635	12,044	10,570	1,097	87.4	24.8
35-39 years	,	338	4,303 879		,	2,076	231	85.1	24.6 25.4
40 years and over	8,416	JJ0	019	2,776	2,116	2,070	231	00.1	25.4

<sup>-</sup> Quantity zero.

1 Includes races other than white and black.

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 <sup>1</sup>					Wei	ght gain du	ring pregna	ncy			
and race and Hispanic origin of mother	All births	Less than 16 pounds	16-20 pounds	21-25 pounds	26-30 pounds	31-35 pounds	36-40 pounds	41-45 pounds	46 pounds or more	Not stated	Mediai weigh gain ir pound
						Number					
All gestation periods <sup>2</sup>	0.050.004	0.40.570	000 000	440 745	570 <b>77</b> 0	400.047	000 000	000 405	007.000	000 744	
All races <sup>3</sup>	3,352,061 2,653,534	340,578 244,006	336,239 255,287	443,745 354,491	579,778 472,052	438,917 364,556	386,286 317,408	202,425 167,131	337,382 270,370	286,711 208,233	
White, non-Hispanic	2,173,330	191,046	203,177	294,212	395,718	310,927	270,774	143,279	231,818	132,379	
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 Hispanic <sup>4</sup>	540,966 136,689	81,529 12,868	63,881 14,971	67,007 19,643	80,361 24,317	54,098 17,872	52,450 14,367	27,181 6,899	54,894 9,911	59,565 15,841	
Under 37 weeks											
All races <sup>3</sup>	372,057	59,672	46,998	49,258	55,691	36,926	32,380	16,608	30,636	43,888	
White, totalWhite, non-Hispanic	260,087 207,134	36,344 28,002	31,628 25,099	35,308 28,896	40,873 33,349	28,076 23,424	24,229 20,243	12,680 10,775	22,854 19,376	28,095 17,970	
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	
Hispanic <sup>4</sup>	14,303	2,081	1,820	2,060	2,205	1,415	1,159	562	930	2,071	
37-39 weeks All races <sup>3</sup>	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	
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 Black, non-Hispanic	247,197 240,587	34,803 34,096	29,279 28,584	31,731 30,850	38,440 37,454	26,043 25,277	24,632 23,965	12,637 12,246	24,594 23,890	25,038 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											
II races <sup>3</sup> Vhite, total	1,464,334 1,197,570	131,407 99,523	134,630 106,401	185,804 152,736	253,158 211,538	200,385 170,258	181,423 152,540	97,781 82,429	165,092 135,161	114,654 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	
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 Hispanic <sup>4</sup>	202,668 55,386	26,336 4,767	21,886 5,525	24,481 7,534	30,462 9,883	21,495 7,531	21,621 6,290	11,631 3,160	24,244 4,605	20,512 6,091	
riispanic ·		4,707	3,323	7,554	9,003	7,551	0,290	3,100	4,003	0,091	
					Perce	ent distribut	ion				
All gestation periods <sup>2</sup> All races <sup>3</sup>	100.0	11.1	11.0	14.5	18.9	14.3	12.6	6.6	11.0		30.4
White, total	100.0	10.0	10.4	14.5	19.3	14.9	13.0	6.8	11.1		30.6
White, non-Hispanic	100.0	9.4	10.0	14.4	19.4	15.2	13.3	7.0	11.4		30.7
Black, total Black, non-Hispanic	100.0 100.0	16.8 16.9	13.2 13.3	13.9 13.9	16.7 16.7	11.3 11.2	10.9 10.9	5.7 5.6	11.4 11.4	•••	29.1 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											
III races <sup>3</sup>	100.0 100.0	18.2 15.7	14.3	15.0 15.2	17.0 17.6	11.3	9.9 10.4	5.1 5.5	9.3 9.9		27.1 28.3
White, total White, non-Hispanic	100.0	15.7 14.8	13.6 13.3	15.2	17.6 17.6	12.1 12.4	10.4	5.5 5.7	9.9 10.2		28.3 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 Hispanic <sup>4</sup>	100.0 100.0	25.4 17.0	16.2 14.9	14.1 16.8	15.0 18.0	8.8 11.6	8.3 9.5	4.0 4.6	8.1 7.6		25.1 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 15.7	10.1	15.0	20.0	15.4	13.0	6.7 5.7	10.5		30.6
Black, totalBlack, non-Hispanic	100.0 100.0	15.7 15.8	13.2 13.2	14.3 14.3	17.3 17.3	11.7 11.7	11.1 11.1	5.7 5.7	11.1 11.0		29.5 29.4
Hispanic 4	100.0	10.2	12.9	16.9	20.7	15.0	11.7	5.4	7.4		29.2
40 weeks and over	400.0	c =	46.5	46.5	46.5	44.5	46.4	= -	46.5		<b>65</b> -
All races 3	100.0	9.7	10.0	13.8	18.8 19.0	14.8 15.3	13.4 13.7	7.2 7.4	12.2		30.8
White, totalWhite, non-Hispanic	100.0 100.0	9.0 8.4	9.6 9.1	13.8 13.6	19.0 19.1	15.3 15.6	13.7 14.0	7.4 7.6	12.2 12.5		30.9 31.0
Black, total	100.0	14.3	12.0	13.4	16.7	11.9	11.9	6.4	13.3		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 <sup>4</sup>	100.0	9.7	11.2	15.3	20.0	15.3	12.8	6.4	9.3		30.2

<sup>Category not applicable.

Expressed in completed weeks.

Includes births with period of gestation not stated.

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

Persons of Hispanic origin may be of any race.

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

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 pr	egnancy			
and race and Hispanic origin of mother	Total	Less than 16 pounds	16-20 pounds	21-25 pounds	26-30 pounds	31-35 pounds	36-40 pounds	41-45 pounds	46 pounds or more	Not stated
All gestation periods <sup>2</sup>										
All races <sup>3</sup>	7.6	14.5	10.5	7.7	6.0	5.1	4.8	4.7	5.1	11.7
White, total	6.5	12.0	9.2	6.7	5.3	4.5	4.3	4.3	4.7	9.9
White, non-Hispanic	6.4	12.1	9.4	6.8	5.2	4.5	4.3	4.3	4.8	10.4
Black, total	13.1	22.2	16.2	12.7	10.4	8.7	7.9	7.3	7.1	18.4
Black, non-Hispanic	13.2	22.3	16.3	12.8	10.5	8.8	7.9	7.4	7.1	18.5
Hispanic, total <sup>4</sup>	6.8	11.5	8.0	6.7	5.4	4.6	4.4	4.1	4.4	8.9
Mexican 4	6.3	10.2	7.0	5.9	5.0	4.2	3.9	3.7	4.1	8.2
Puerto Rican 4	9.3	17.0	12.5	9.5	7.5	6.5	6.0	5.1	5.3	14.4
Cuban <sup>4</sup>	6.5		11.1	7.3	6.7			4.3	5.1	9.9
Central and South American 4		12.8				3.9	3.9 4.6		5.1 4.2	
Other and unknown Hispanic 4	6.1 8.0	11.6 13.4	8.0 9.3	6.4 8.1	4.5 6.4	4.4 5.4		3.9 4.4	4.2 4.6	7.6
Other and unknown Hispanic 4	8.0	13.4	9.3	8.1	6.4	5.4	5.3	4.4	4.0	12.8
Under 37 weeks										
All races <sup>3</sup>	44.2	58.5	48.9	42.5	37.9	35.6	34.9	34.3	35.2	53.6
White, total	42.5	56.5	47.9	41.5	36.9	35.0	34.4	34.3	35.5	51.7
White, non-Hispanic	43.6	58.6	49.9	42.6	38.0	35.9	35.3	35.3	36.7	55.8
Black, total	49.5	62.7	52.1	46.5	41.8	39.0	37.4	36.0	34.9	58.6
Black, non-Hispanic	49.5	62.8	52.2	46.5	41.9	39.1	37.4	36.3	34.9	58.5
Hispanic <sup>4</sup>	37.4	48.8	39.5	36.2	31.3	29.9	29.7	26.7	28.4	43.3
37-39 weeks										
All races <sup>3</sup>	4.4	7.1	6.0	4.8	3.9	3.5	3.1	3.3	3.4	5.5
White, total	3.8	6.0	5.3	4.2	3.4	3.1	2.8	3.0	3.1	4.6
White, non-Hispanic	3.8	6.0	5.4	4.2	3.4	3.1	2.8	2.9	3.1	4.4
Black, total	7.2	10.7	9.0	7.6	6.5	5.6	4.9	5.1	4.8	8.5
Black, non-Hispanic	7.3	10.7	9.1	7.7	6.6	5.6	4.9	5.1	4.8	8.6
Hispanic <sup>4</sup>	4.1	6.0	4.9	4.2	3.6	3.3	2.9	3.2	3.1	4.9
40 weeks and over										
All races <sup>3</sup>	1.5	2.9	2.3	1.7	1.3	1.1	1.0	0.9	1.0	2.2
White, total	1.3	2.3	2.0	1.5	1.1	0.9	0.9	0.8	0.8	1.7
White, non-Hispanic	1.2	2.2	2.0	1.4	1.1	0.9	0.8	0.8	0.8	1.6
Black, total	3.1	5.2	4.0	3.4	2.7	2.3	2.0	1.8	1.7	4.1
Black, non-Hispanic	3.1	5.2	4.0	3.4	2.7	2.3	2.0	1.0	1.7	4.1
Hispanic 4	1.5	2.5	1.9	3.4 1.7	1.3	2.3 1.1	1.1	0.9	1.7	1.9
ı ııəpaı ııc '	1.0	2.0	1.9	1.7	1.3	1.1	1.1	0.9	1.0	1.9

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

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

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	Δ.ΙΙ			American			Asian or Pa	cific Islander		
Characteristic	All races	White	Black	American Indian <sup>1</sup>	Total	Chinese	Japanese	Hawaiian	Filipino	Other
All Births Mother										
Prenatal care beginning in the first										
trimester	81.9	84.0	71.4	67.7	81.2	86.8	89.3	78.5	82.5	78.4
Late or no prenatal care Smoker <sup>2</sup>	4.0 13.6	3.3 14.7	7.3	8.6	3.9 3.3	2.5 0.7	2.2	5.0 15.3	3.3 3.5	4.6 2.7
Drinker <sup>3</sup>	1.4	1.3	10.2 2.0	21.3 4.0	0.4	0.7	4.8 0.8	1.3	0.4	0.4
Weight gain of less than 16 lbs 4	11.1	10.0	16.8	15.1	9.2	6.3	9.6	8.4	7.0	10.6
Median weight gain <sup>4</sup>	30.4	30.6	29.1	30.1	30.0	30.2	27.0	32.0	30.5	29.2
Cesarean delivery rate	20.7	20.6	21.7	18.1	18.6	19.0	16.9	16.0	22.3	17.5
Infant										
Preterm births <sup>5</sup> Birthweight	11.0	9.8	17.4	11.9	10.0	7.4	8.2	11.5	11.5	10.4
Very low birthweight 6	1.4	1.1	3.0	1.2	1.0	0.6	0.8	1.0	1.2	1.0
Low birthweight 7	7.4	6.3	13.0	6.5	7.1	5.0	7.3	6.8	7.9	7.4
4,000 grams or more 8	10.2	11.4	5.4	12.3	6.0	6.6	5.3	8.4	6.3	5.7
5-minute Apgar score of less than 7 <sup>9</sup>	1.4	1.2	2.5	1.4	1.0	0.7	0.7	1.2	1.1	1.1
Births to mothers born in the 50 States and D.C. Mother										
Prenatal care beginning in the first										
trimester	83.5	86.3	71.2	67.5	82.4	91.7	91.2	78.5	81.1	78.4
Late or no prenatal care	3.5 15.5	2.6 16.5	7.4 11.1	8.6 21.8	3.8 10.5	1.6 4.2	1.9 6.2	5.0 15.5	3.5 8.6	4.8 10.1
Smoker <sup>2</sup> Drinker <sup>3</sup>	1.5	1.4	2.1	4.1	10.5	*	*	1.3	*	1.5
Weight gain of less than 16 lbs 4	11.0	9.7	17.2	15.2	8.2	6.4	8.2	8.5	7.6	8.8
Median weight gain <sup>4</sup>	30.5	30.7	29.0	30.2	30.7	30.4	29.8	32.0	30.8	30.7
Cesarean delivery rate	20.9	20.8	21.6	18.0	17.0	17.6	19.8	16.1	16.2	16.6
Infant										
Preterm births 5	11.1	9.7	17.8	11.9	10.7	9.2	9.3	11.5	11.1	11.0
Birthweight Very low birthweight 6	1.4	1.1	3.0	1.2	1.1	1.1	0.7	1.0	1.5	1.2
Low birthweight 7	7.6	6.5	13.4	6.4	7.8	7.3	8.3	6.9	8.6	7.8
4,000 grams or more 8	10.5	11.7	5.0	12.5	7.4	7.1	6.3	8.5	5.9	8.4
5-minute Apgar score of less than 7 <sup>9</sup>	1.5	1.2	2.5	1.4	1.1	*	*	1.2	*	1.3
Births to mothers born outside the 50 Sates and D.C. Mother										
Prenatal care beginning in the first										
trimester Late or no prenatal care	74.9 6.1	73.3 6.7	74.7 6.4	74.3 8.0	81.0 3.9	86.3 2.5	87.8 2.4	77.1 *	82.8 3.2	78.4 4.6
Smoker <sup>2</sup>	3.1	3.6	2.0	6.3	1.9	0.4	3.6	*	2.4	2.0
Drinker <sup>3</sup>	0.6	0.6	0.5	*	0.3	0.1	1.0	*	0.3	0.3
Weight gain of less than 16 lbs 4	11.9	12.3	13.2	12.1	9.4	6.3	10.6	*	6.9	10.7
Median weight gain <sup>4</sup> Cesarean delivery rate	29.6 19.7	29.5 19.5	30.0 23.4	29.8 19.2	29.5 18.9	30.2 19.1	25.8 14.4	30.8	30.4 23.5	28.9 17.6
Infant										
Preterm births 5	10.3	10.0	13.5	11.3	9.9	7.2	7.4	*	11.6	10.4
Birthweight										
Very low birthweight 6 Low birthweight 7	1.1 6.2	1.0 5.7	2.4 9.2	1.6 7.4	1.0 6.9	0.6 4.8	0.9 6.4	*	1.1 7.8	1.0 7.4
4.000 grams or more 8	9.1	10.0	9.2 8.5	8.0	5.8	6.5	4.5	*	6.4	7.4 5.4
5-minute Apgar score of less than 7 <sup>9</sup>	1.2	1.1	1.9	*	1.0	0.6	*	*	1.2	1.0

Figure does not meet standards of reliability or precision.

Figure does not meet standards of reliability or precision.
Includes births to Aleuts and Eskimos.

Excludes data for California, Indiana, New York State (but includes New York City), and South Dakota, which did not report tobacco use on the birth certificate.

Excludes data for California and South Dakota, which did not report alcohol use on the birth certificate.

Excludes data for California, which did not report weight gain on the birth certificate.

Median weight shown in pounds.

Born prior to 37 completed weeks of gestation.

Birthweight of less than 1,500 grams (3 lb 4 oz).

Birthweight of less than 2,500 grams (5 lb 8 oz).

Excludes data for California, which did not report weight gain on the birth certificate.

Median weight shown in pounds.

Birthweight of less than 1,500 grams (5 lb 8 oz).

<sup>6</sup> 7

Equivalent to 8 lb 14 oz.
 Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

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

						Origin of mot	her			
				Hisp	panic			/	Non-Hispani	ic .
Characteristic	All origins <sup>1</sup>	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	White	Black
All Births Mother										
Prenatal care beginning in the first										
trimester	81.9	72.2	70.7	75.0	89.2	75.0	74.6	84.0	87.4	71.5
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 <sup>3</sup> Drinker <sup>4</sup>	13.6 1.4	4.3 0.7	3.1 0.6	11.0 1.1	4.7 0.4	1.8 0.4	9.1 1.7	15.1 1.5	16.9 1.4	10.3 2.0
Weight gain of less than 16 lbs <sup>5</sup>	11.1	13.4	14.7	12.4	7.2	10.9	13.2	10.8	9.4	16.9
Median weight gain <sup>5</sup>	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 <sup>6</sup>	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	4 4	1.0	47	4.9	4.4	4 5	4.4	4 4	2.0
Low birthweight 8	7.4 7.4	1.1 6.3	1.0 5.9	1.7 9.2	1.3 6.5	1.1 6.0	1.5 7.7	1.4 7.6	1.1 6.4	3.0 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 7 $^{10}$	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										
trimester	83.5	75.4	75.0	75.4	89.1	79.6	74.7	84.3	87.5	71.2
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 <sup>3</sup> Drinker <sup>4</sup>	15.5 1.5	7.7 1.2	5.7 1.0	12.6 1.1	5.6 0.7	5.7 1.2	11.1 2.2	16.1 1.6	17.3 1.4	11.1 2.1
Weight gain of less than 16 lbs <sup>5</sup>	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		4.0	4.0	4 -	4.0	4.0	4 -			
Very low birthweight 7 Low birthweight 8	1.4 7.6	1.3 7.2	1.2 6.7	1.7 9.1	1.2 6.2	1.3	1.5 8.2	1.4 7.7	1.1 6.4	3.0 13.4
4,000 grams or more 9	10.5	8.2	8.5	7.0	9.5	6.1 8.6	7.4	10.7	12.1	5.0
5-minute Apgar score of less than 7 10	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			_	_		_				
trimester	74.9	70.3	68.1	74.4	89.3	74.6	74.8	81.4	84.3	75.5
Late or no prenatal care Smoker <sup>3</sup>	6.1 3.1	7.5 1.9	8.4 1.1	6.0 8.5	1.5 4.1	5.6 1.5	6.4 2.3	4.2 4.4	3.6 8.0	6.2 1.9
Drinker 4	0.6	0.4	0.3	1.0	0.3	0.4	2.3 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 7 10	1.2	1.1	1.2	1.5	0.8	1.0	1.2	1.2	1.0	2.0

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.

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

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]

** ** * * * * * * * * * * * * * * * * *	A.11	Medical			A	Age of mothe	er			
Medical risk factor and race of mother	All births <sup>1</sup>	risk factor reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-49 years	Not stated
All races <sup>2</sup>										
Anemia	3,891,494	75,400	19.6	28.5	23.7	17.5	15.2	15.2	16.3	51,830
Cardiac disease	3,891,494	19,226	5.0	3.1	3.6	4.9	6.3	7.3	8.8	51,830
Acute or chronic lung disease	3,891,494	32,006	8.3	11.3	9.3	7.5	7.0	7.6	8.4	51,830
Diabetes	3,891,494	100,845	26.3	8.6	16.5	25.8	34.4	47.4	64.5	51,830
Genital herpes <sup>3</sup>	3,561,088	31,795	9.1	6.4	7.8	8.9	10.3	12.0	13.0	48,599
Hydramnios/Oligohydramnios	3,891,494	47,824	12.5	13.9	12.8	11.5	11.7	13.3	16.7	51,830
Hemoglobinopathy	3,891,494	2,979	0.8 6.8	1.1 2.4	0.9 4.1	0.7 6.0	0.6	0.7	0.7 24.5	51,830 51,830
Hypertension, chronic	3,891,494 3,891,494	26,221 137,724	35.9	42.1	35.9	34.5	8.5 32.7	13.9 36.7	46.4	51,830
Eclampsia	3,891,494	13,591	3.5	5.3	3.9	3.1	2.8	3.3	4.4	51,830
Incompetent cervix	3.891.494	9,817	2.6	1.1	1.9	2.6	3.2	4.1	4.4	51.830
Previous infant 4000+ grams	3,891,494	42,170	11.0	1.4	6.4	11.5	15.9	19.3	22.9	51,830
Previous preterm or small-for-	, ,	,								,
gestational-age infant	3,891,494	44,875	11.7	5.0	11.7	12.0	13.1	15.0	17.2	51,830
Renal disease 4	3,831,006	10,372	2.7	3.3	3.2	2.7	2.3	2.2	2.5	52,640
Rh sensitization <sup>5</sup>	3,854,843	24,396	6.4	5.2	6.0	6.6	6.9	7.3	6.8	53,060
Uterine bleeding <sup>3</sup>	3,561,088	25,671	7.3	5.3	6.3	7.4	8.1	9.2	10.2	48,599
White										
Anemia	3,093,057	51,039	16.7	24.3	19.8	15.2	13.5	13.7	14.5	42,372
Cardiac disease	3,093,057	16,109	5.3	3.0	3.6	5.3	6.6	7.6	9.4	42,372
Acute or chronic lung disease	3,093,057	24,640	8.1	10.7	8.8	7.4	7.1	7.6	8.3	42,372
Diabetes	3,093,057	78,249	25.6	8.8	16.5	25.0	32.3	44.1	60.3	42,372
Genital herpes <sup>3</sup>	2,811,247	25,488	9.2	5.7	7.1	8.8	11.0	13.1	14.8	39,542
Hydramnios/Oligohydramnios	3,093,057	36,264	11.9	13.1	12.4	10.9	11.3	12.7	15.9	42,372
Hemoglobinopathy	3,093,057 3,093,057	981 18,134	0.3 5.9	0.3 2.1	0.3 3.6	0.3 5.4	0.3 7.2	0.4 11.4	0.5 19.4	42,372 42,372
Hypertension, chronic	3,093,057	110,134	36.2	42.4	36.9	35.3	32.9	36.1	45.8	42,372
Eclampsia	3,093,057	10,072	3.3	4.7	3.6	3.0	2.7	3.1	4.2	42,372
Incompetent cervix	3,093,057	7,043	2.3	1.0	1.6	2.2	2.9	3.9	4.2	42,372
Previous infant 4000+ grams	3,093,057	38,111	12.5	1.5	7.0	12.7	17.6	21.5	25.9	42,372
Previous preterm or small-for-										
gestational-age infant	3,093,057	34,242	11.2	4.4	10.8	11.4	12.8	14.6	16.8	42,372
Renal disease <sup>4</sup>	3,052,835	8,620	2.9	3.6	3.4	2.8	2.4	2.3	2.7	43,122
Rh sensitization 5	3,060,288	22,024	7.3	6.2	6.8	7.4	7.7	8.3	7.8	43,469
Uterine bleeding <sup>3</sup>	2,811,247	21,195	7.6	5.8	6.6	7.7	8.3	9.4	10.6	39,542
Black										
Anemia	594,781	19,881	33.8	37.9	37.8	31.1	28.2	26.2	26.7	6,765
Cardiac disease	594,781	2,554	4.3	3.4	4.0	3.9	5.6	6.6	8.1	6,765
Acute or chronic lung disease	594,781	6,348	10.8	13.1	11.8	9.2	8.5	9.1	11.8	6,765
Diabetes	594,781	14,568	24.8	7.7	15.7	27.6	42.0	58.5	80.2	6,765
Genital herpes <sup>3</sup>	555,925	5,464	9.9	8.4	11.4	11.2	8.9	7.2	8.0	6,557
Hydramnios/Oligohydramnios Hemoglobinopathy	594,781 594,781	9,140 1.844	15.5 3.1	16.1 3.2	14.7 3.5	14.7 3.2	15.9 2.6	17.5 2.7	23.3 2.5	6,765 6,765
Hypertension, chronic	594,781	7,094	12.1	3.3	5.5 6.6	3.2 11.6	20.5	35.2	63.6	6,765
Hypertension, pregnancy-associated	594,781	22,099	37.6	41.9	33.6	34.9	37.4	45.3	57.5	6,765
Eclampsia	594,781	2,941	5.0	6.8	4.7	4.0	4.4	4.9	6.4	6,765
Incompetent cervix	594,781	2,465	4.2	1.5	3.1	5.5	7.0	6.7	6.6	6,765
Previous infant 4000+ grams	594,781	2,657	4.5	1.0	3.6	5.7	7.4	8.5	9.5	6,765
Previous preterm or small-for-										
gestational-age infant	594,781	8,748	14.9	6.6	15.8	18.0	18.1	19.1	21.4	6,765
Renal disease 4	575,206	1,335	2.3	2.4	2.7	2.2	2.0	1.9	2.5	6,819
Rh sensitization 5	592,015	1,967	3.4	3.2	3.3	3.2	3.8	3.7	3.6	6,867
Uterine bleeding <sup>3</sup>	555,925	3,227	5.9	4.4	5.3	6.4	7.1	7.8	7.4	6,557

<sup>1</sup> Total number of births to residents of areas reporting specified medical risk factor. Includes races other than white and black.
3 Texas does not report this risk factor.
4 Alabama does not report this risk factor.

<sup>5</sup> Kansas does not report this risk factor.

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,		140.5	51.1	American			Asian or Pac	cific Islander		,
complication, and obstetric procedure	All races	White	Black	Indian <sup>1</sup>	Total	Chinese	Japanese	Hawaiian	Filipino	Other
	-				Num	ber				
Medical risk factors										
modical new lactors										
Anemia	75,400	51,039	19,881	1,788	2,692	280	132	211	456	1,613
Diabetes  Hypertension, pregnancy-associated	100,845 137,724	78,249 110,492	14,568 22,099	1,717 1,902	6,311 3,231	1,231 366	226 165	166 170	1,272 870	3,416 1,660
Uterine bleeding <sup>2</sup>	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 90,105	121,992 73,728	17,526 11,344	1,355 771	5,558 4,262	951 806	344 218	245 157	1,091 953	2,927 2,128
Fetal distress <sup>3</sup>	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
					Ra	te				
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 <sup>2</sup>	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 23.4	39.9	29.7	36.6	33.8	33.6	38.9	41.6	35.2	32.4
Cephalopelvic disproportion Fetal distress <sup>3</sup>	42.0	24.1 40.1	19.2 54.4	20.8 35.1	25.9 34.0	28.5 30.3	24.7 23.8	26.7 29.0	30.7 33.7	23.5 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 <sup>4</sup>	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

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.

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]

						Origin of mo	ther			
Medical risk factor, complication,	4			His	panic			N	on-Hispanic	
and obstetric procedure	All origins <sup>1</sup>	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	White	Black
					1	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 Uterine bleeding <sup>3</sup>		18,599 2,732	12,436 1,564	1,480 358	373 57	2,678 490	1,632 263	117,210 22,435	90,765 18,123	21,508 3,137
Complications of labor and/or delivery										
Meconium,moderate/heavy		41,368	27,373	3,746	566	6,909	2,774	178,978	121,146	46,532
Premature rupture of membrane		13,807	8,024	1,701	350	2,312	1,420	96,901	71,677	19,050
Dysfunctional labor  Breech/Malpresentation	. 105,749 . 146,431	15,611 20,679	8,834 13,763	1,771 1,818	578 510	2,809 2,976	1,619 1,612	87,138 123,454	67,362 99,799	14,426 16,976
Cephalopelvic disproportion		12,378	8,665	984	238	1,607	884	76,620	60,660	11,091
Fetal distress <sup>4</sup>		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		532,841	361,613	46,789	11,014	75,728	37,697	2,608,232	1,983,272	473,717
Induction of laborUltrasound 5		77,744 363,733	50,990 241,719	6,918 34,334	2,420 7,715	10,424 50.644	6,992 29,321	564,298 2,055,041	468,389 1,604,056	71,663 334,490
Stimulation of labor	652,196	105,099	70,023	10,276	2,177	15,214	7,409	535,806	416,556	88,489
						Rate				
Medical risk factors										
Anemia		18.8	17.0	29.5	19.8	16.2	31.3	19.7	16.0	33.9
Diabetes		24.6	22.9 25.5	33.5	24.2 29.7	26.8 27.7	27.2	26.5	25.9	24.5
Hypertension, pregnancy-associated Uterine bleeding <sup>3</sup>	35.9 7.3	26.8 4.9	25.5 4.4	27.7 6.8	4.6	5.5	35.8 6.7	37.9 7.7	39.0 8.3	37.6 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		19.8	16.4	31.8	27.9	23.8	31.0	31.3	30.8	33.2
Dysfunctional labor		22.4 29.7	18.1 28.2	33.2 34.0	46.0 40.6	28.9 30.7	35.4 35.2	28.1 39.8	28.9 42.8	25.2 29.6
Cephalopelvic disproportion		17.8	17.7	18.4	18.9	16.6	19.3	24.7	26.0	19.3
Fetal distress <sup>4</sup>		35.4	32.9	42.4	30.7	39.4	41.1	43.3	41.2	54.6
Obstetric procedures										
Amniocentesis		14.7	10.5	25.4	28.6	24.0	23.4	35.7	39.9	18.0
Electronic fetal monitoring		763.5 111.4	740.0 104.3	872.2	876.5 192.6	779.1 107.2	822.4 152.5	839.3 181.6	848.2 200.3	824.5 124.7
Ultrasound 5		521.7	104.3 494.9	129.0 643.1	614.1	521.6	640.0	181.6 663.5	200.3 688.3	124.7 584.6
Stimulation of labor		150.6	143.3	191.6	173.2	156.5	161.6	172.4	178.1	154.0

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.

<sup>1</sup> Includes origin not stated.
2 Includes races other than white and black.
3 Texas does not report this risk factor.
4 Texas does not report this complication.
5 Delaware does not report this procedure.

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

					Age of m	nother				
Smoking status, smoking			1	15-19 years						
measure, and race of mother	All ages	Under 15 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-49 years
_					Numl	ber				
All races <sup>1</sup>										
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 2,649,899 48,889	705 8,422 125	68,542 330,078 5,508	23,276 127,672 2,055	45,266 202,406 3,453	127,031 629,421 10,995	104,257 741,462 13,645	76,388 622,014 11,944	35,787 268,937 5,515	5,570 49,565 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 2,056,100 38,103	536 3,555 59	59,582 209,962 3,848	19,972 75,810 1,362	39,610 134,152 2,486	110,094 458,488 8,247	88,820 601,032 10,915	62,771 519,428 9,658	28,683 223,293 4,479	4,368 40,342 897
Black										
Total	532,866	4,798	118,641	51,178	67,463	162,525	118,449	83,013	38,120	7,320
Smoker	53,460 471,541 7,865	139 4,606 53	6,999 110,290 1,352	2,539 48,065 574	4,460 62,225 778	13,746 146,640 2,139	13,130 103,409 1,910	11,985 69,481 1,547	6,388 31,036 696	1,073 6,079 168
					Perc	ent				
Smoker <sup>1</sup>	13.6	7.7	17.2	15.4	18.3	16.8	12.3	10.9	11.7	10.1
WhiteBlack	14.7 10.2	13.1 2.9	22.1 6.0	20.9 5.0	22.8 6.7	19.4 8.6	12.9 11.3	10.8 14.7	11.4 17.1	9.8 15.0
					Percent dis	stribution				
All races <sup>1</sup>										
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1-5 cigarettes 6-10 cigarettes 11-15 cigarettes 16-20 cigarettes 21-30 cigarettes 31-40 cigarettes 41 cigarettes or more	26.2 40.4 6.4 22.7 2.9 1.1 0.2	51.1 32.6 12.7 *	33.9 41.9 4.6 17.2 1.6 0.6 0.1	37.5 41.3 4.1 15.2 1.3 0.4 0.1	32.1 42.3 4.8 18.2 1.8 0.7 0.2	26.3 41.9 6.0 22.2 2.5 0.9 0.2	24.0 40.5 6.9 24.0 3.2 1.1 0.2	23.8 38.8 7.4 24.7 3.6 1.5 0.2	23.0 36.8 7.4 26.2 4.4 2.0 0.3	21.4 35.4 7.3 27.9 4.8 2.9 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 6-10 cigarettes 11-15 cigarettes 16-20 cigarettes 21-30 cigarettes 31-40 cigarettes 41 cigarettes or more	23.5 40.7 6.9 24.2 3.2 1.2 0.2	45.0 36.4 14.1 *	30.9 43.3 4.9 18.4 1.8 0.6 0.1	34.2 43.1 4.4 16.3 1.4 0.4	29.2 43.4 5.1 19.4 2.0 0.7 0.1	23.5 42.4 6.5 23.8 2.7 0.9 0.2	21.4 40.6 7.5 25.6 3.5 1.2 0.2	21.2 38.1 8.2 26.6 4.0 1.6 0.2	20.3 35.7 8.2 28.3 5.1 2.2 0.3	19.1 33.6 8.4 29.8 5.5 3.3
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 6-10 cigarettes 11-15 cigarettes 16-20 cigarettes 12-30 cigarettes 31-40 cigarettes 41 cigarettes or more	41.8 39.4 3.0 13.7 1.1 0.8 0.2	71.4 22.2 * * *	56.4 31.3 2.1 8.8 0.7 0.5	59.6 29.1 1.9 8.1 *	54.6 32.6 2.2 9.2 0.6 0.5	45.5 38.4 2.6 11.6 1.0 0.6 0.2	39.7 40.7 3.1 14.5 1.1 0.7 0.2	36.2 42.4 3.4 15.4 1.3 1.0 0.3	34.1 41.9 4.0 17.4 1.4 0.9	29.7 43.0 3.0 20.0 2.3 *

<sup>\*</sup> Figure does not meet standards of reliability or precision.

1 Includes races other than white and black.

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

		Smoking	g status					,	Age of mo	other				
Origin of mother							1	5-19 yea	rs					
	Total births	Smoker	Non- smoker	Not stated	All ages	Under 15 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-49 years
All origins <sup>1</sup>	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 Puerto Rican Cuban	267,473 50,118 11,658	8,222 5,367 539	257,468 43,439 11,051	1,783 1,312 68	3.1 11.0 4.7	3.0	3.6 10.1 6.1	3.8 9.0 *	3.5 10.9 6.6	2.9 11.6 4.8	2.7 11.1 3.9	3.2 10.7 4.1	3.7 12.1 6.6	3.9 10.3 *
Central and South American Other and unknown	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
Hispanic	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 <sup>2</sup>	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
WhiteBlack	2,006,908 519,105	333,703 52,566	1,643,152 459,361	30,053 7,178	16.9 10.3	21.5 2.9	28.6 5.9	28.2 5.0	28.7 6.7	23.8 8.6	14.5 11.4	11.7 15.0	12.2 17.3	10.5 15.3

 <sup>\*</sup> Figure does not meet standards of reliability or precision.
 1 Includes origin not stated.
 2 Includes races other than white and black.

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

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

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

<sup>\*</sup> 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.

## 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)]

						Age of mothe	r			
Smoking status and				15-19 years						
race of mother	All ages	Under 15 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-49 years
All races <sup>1</sup>										
Total	7.6	13.5	9.7	10.4	9.2	7.7	6.7	7.0	8.4	9.8
Smoker Nonsmoker Not stated	12.1 6.9 9.8	16.7 13.2 *	11.2 9.3 12.7	11.6 10.2 13.5	10.9 8.7 12.2	10.4 7.1 9.7	11.6 6.0 8.7	13.6 6.2 9.3	17.0 7.2 10.6	19.2 8.7 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 5.7 8.6	16.4 10.3 *	10.6 7.4 11.5	11.0 8.2 12.6	10.5 6.9 10.9	9.7 5.7 8.7	10.2 5.1 7.6	11.4 5.4 7.8	14.3 6.3 9.5	16.5 7.6 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 5.6 8.3	16.7 10.2 *	10.6 7.2 11.3	11.1 7.8 11.5	10.4 6.8 11.2	9.6 5.5 8.2	10.1 5.0 7.4	11.2 5.3 7.5	14.2 6.1 9.5	16.4 7.4 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 12.0 16.3	19.9 15.6 *	16.1 13.0 16.6	16.6 13.4 16.3	15.8 12.7 16.9	17.1 11.5 14.2	22.0 11.1 16.1	25.8 11.8 17.5	29.3 13.6 18.7	31.7 15.7 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 12.1 16.4	19.8 15.7 *	16.1 13.1 16.9	16.6 13.5 16.4	15.9 12.8 17.3	17.2 11.6 14.2	22.1 11.2 16.2	25.9 12.0 17.3	29.2 13.7 19.2	31.8 15.8 22.4
Hispanic <sup>2</sup>										
Total	6.8	10.5	8.1	9.1	7.4	6.4	5.8	6.6	8.2	9.6
Smoker	12.4 (6.5) (10.3)	* (10.4) *	10.7 7.9 12.1	10.7 8.9 14.6	10.7 7.2 10.1	(11.1) 6.1 (10.7)	12.5 5.5 9.0	14.3 6.3 8.7	(17.0) (7.7) (10.7)	18.3 9.0 *

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.

 <sup>\*</sup> Figure does not meet standards of reliability or precision.
 1 Includes races other than white and black and origin not stated.
 2 Persons of Hispanic origin may be of any race.

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

					Month of preg	gnancy prena	atal care bega	n			
Age and race and Hispanic origin	All births		1st trimester		2d trimester	Lá	ate or no care		Not	Perc	ent
of mother	Dirurs	Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	stated	1st trimester	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	681 851	1,256	73.1 75.9	4.8 4.3
19 years	85,838 508,056	63,896 409,354	43,754 303,034	20,142 106,320	16,655 72,862	3,650 16,496	2,799 12,651	3,845	1,637 9,344	82.1	3.3
20-24 years 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	10,727	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 74.5	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.

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

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

		Percent b	eginning ca	re in first t	rimester			ı	Percent late	1 or no ca	are	
		Wh	ite	Bla	ack			W	nite	Bla	ack	
State	All races <sup>2</sup>	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic <sup>3</sup>	All races <sup>2</sup>	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic <sup>3</sup>
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 District of Columbia	83.6 64.6	87.0 77.4	88.8 87.5	72.8 60.0	72.9 60.0	67.1 60.8	3.2 11.8	2.3 7.2	1.9 5.3	6.3 13.5	6.2 13.6	6.5 10.0
District of Columbia	04.0	77.4	07.5	00.0	00.0	00.0	11.0	1.2	5.5	10.0	13.0	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 80.4	84.7	88.6	68.8 64.7	68.7 64.7	71.4 66.8	4.2	3.0 3.3	2.1 3.1	8.8	8.8 8.4	6.2 8.1
IndianaIowa	87.1	82.2 87.7	82.8 88.5	75.0	74.4	69.1	3.8 2.5	2.3	2.1	8.4 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 New Hampshire	77.6 89.1	78.5 89.3	84.2 89.6	67.4 76.4	67.3 74.2	65.7 75.5	6.0 1.5	5.8 1.5	3.4 1.4	8.9	8.9	11.2
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 84.5	87.5	87.6	70.4	70.4	89.5 72.6	2.0	2.0	2.0	60	6.8	E F
Virginia Washington	84.5 83.2	88.4 84.1	89.7 86.1	72.1 76.7	72.1 76.7	72.6 70.7	3.3 3.6	2.2 3.2	1.9 2.6	6.8 7.1	7.1	5.5 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		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	*	*	*	*	*

<sup>\*</sup> Figure does not meet standards of reliability or precision.
--- Data not available.

1 Care beginning in 3rd trimester.
2 Includes races other than white and black and origin not stated.
3 Persons of Hispanic origin may be of any race.
4 Excludes data for Puerto Rico, Virgin Islands, and Guam.

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

No visits       44,543         1-2 visits       40,612         3-4 visits       82,777         5-6 visits       179,054         7-8 visits       333,522         9-10 visits       739,021         11-12 visits       1,003,513         13-14 visits       646,478         15-16 visits       447,611         17-18 visits       96,300         19 visits or more       140,751         Not stated       137,312         Median number of visits       12.3         White, total       3,093,057         No visits       26,132	7otal  3,102,972 9,316 22,643 74,312 200,056 572,955 910,282 610,592 424,414 91,825 132,733 53,844 12.6	1st trimester  1st and 2d months  2,351,222  5,851 12,623 42,443 121,706 377,478 691,333 503,996 361,133 77,897 115,228 41,534	3d month  751,750 3,465 10,020 31,869 78,350 195,477 218,949 106,596 63,281 13,928 17,505 12,310	2d trimester  4th-6th months  536,402  10,075 31,014 75,329 113,534 149,518 84,448 31,548 20,089 3,776	151,302 44,543 19,212 26,974 26,241 15,756 8,505 3,493 1,455 1,066	7th-9th months  106,759 19,212 26,974 26,241 15,756 8,505 3,493 1,455	No care  44,543  44,543	2,009 2,146 3,172
All races 1	3,102,972 9,316 22,643 74,312 200,056 572,955 910,282 610,592 424,414 91,825 132,733 53,844	7,351,222 2,351,222  5,851 12,623 42,443 121,706 377,478 691,333 503,996 361,133 77,897 115,228 41,534	751,750  3,465 10,020 31,869 78,350 195,477 218,949 106,596 63,281 13,928 17,505	months  536,402  10,075 31,014 75,329 113,534 149,518 84,448 31,548 20,089	151,302 44,543 19,212 26,974 26,241 15,756 8,505 3,493 1,455	months  106,759 19,212 26,974 26,241 15,756 8,505 3,493	44,543 44,543	100,818  2,009 2,146 3,172 4,176
No visits       44,543         1-2 visits       40,612         3-4 visits       82,777         5-6 visits       179,054         7-8 visits       333,522         9-10 visits       739,021         11-12 visits       1,003,513         13-14 visits       646,478         15-16 visits       447,611         17-18 visits       96,300         19 visits or more       140,751         Not stated       137,312         Median number of visits       12.3         White, total       3,093,057         No visits       26,132	9,316 22,643 74,312 200,056 572,955 910,282 610,592 424,414 91,825 132,733 53,844	5,851 12,623 42,443 121,706 377,478 691,333 503,996 361,133 77,897 115,228 41,534	3,465 10,020 31,869 78,350 195,477 218,949 106,596 63,281 13,928 17,505	10,075 31,014 75,329 113,534 149,518 84,448 31,548 20,089	44,543 19,212 26,974 26,241 15,756 8,505 3,493 1,455	 19,212 26,974 26,241 15,756 8,505 3,493	44,543	100,818  2,009 2,146 3,172 4,176 8,043
1-2 visits     40,612       3-4 visits     82,777       5-6 visits     179,054       7-8 visits     333,522       9-10 visits     739,021       11-12 visits     1,003,513       13-14 visits     646,478       15-16 visits     447,611       17-18 visits     96,300       19 visits or more     140,751       Not stated     137,312       Median number of visits     12.3       White, total     3,093,057       No visits     26,132	22,643 74,312 200,056 572,955 910,282 610,592 424,414 91,825 132,733 53,844	12,623 42,443 121,706 377,478 691,333 503,996 361,133 77,897 115,228 41,534	10,020 31,869 78,350 195,477 218,949 106,596 63,281 13,928 17,505	31,014 75,329 113,534 149,518 84,448 31,548 20,089	19,212 26,974 26,241 15,756 8,505 3,493 1,455	26,974 26,241 15,756 8,505 3,493		2,146 3,172 4,176
1-2 visits     40,612       3-4 visits     82,777       5-6 visits     179,054       7-8 visits     333,522       9-10 visits     739,021       11-12 visits     1,003,513       13-14 visits     646,478       15-16 visits     447,611       17-18 visits     96,300       19 visits or more     140,751       Not stated     137,312       Median number of visits     12.3       White, total     3,093,057       No visits     26,132	22,643 74,312 200,056 572,955 910,282 610,592 424,414 91,825 132,733 53,844	12,623 42,443 121,706 377,478 691,333 503,996 361,133 77,897 115,228 41,534	10,020 31,869 78,350 195,477 218,949 106,596 63,281 13,928 17,505	31,014 75,329 113,534 149,518 84,448 31,548 20,089	19,212 26,974 26,241 15,756 8,505 3,493 1,455	26,974 26,241 15,756 8,505 3,493		2,146 3,172 4,176
3-4 visits     82,777       5-6 visits     179,054       7-8 visits     333,522       9-10 visits     739,021       11-12 visits     1,003,513       13-14 visits     646,478       15-16 visits     447,611       17-18 visits     96,300       19 visits or more     140,751       Not stated     137,312       Median number of visits     12.3       White, total     3,093,057       No visits     26,132	22,643 74,312 200,056 572,955 910,282 610,592 424,414 91,825 132,733 53,844	12,623 42,443 121,706 377,478 691,333 503,996 361,133 77,897 115,228 41,534	10,020 31,869 78,350 195,477 218,949 106,596 63,281 13,928 17,505	31,014 75,329 113,534 149,518 84,448 31,548 20,089	26,974 26,241 15,756 8,505 3,493 1,455	26,974 26,241 15,756 8,505 3,493	  	2,146 3,172 4,176
5-6 visits     179,054       7-8 visits     333,522       9-10 visits     739,021       11-12 visits     1,003,513       13-14 visits     646,478       15-16 visits     447,611       17-18 visits     96,300       19 visits or more     140,751       Not stated     137,312       Median number of visits     12.3       White, total     3,093,057       No visits     26,132	200,056 572,955 910,282 610,592 424,414 91,825 132,733 53,844	42,443 121,706 377,478 691,333 503,996 361,133 77,897 115,228 41,534	31,869 78,350 195,477 218,949 106,596 63,281 13,928 17,505	75,329 113,534 149,518 84,448 31,548 20,089	26,241 15,756 8,505 3,493 1,455	26,241 15,756 8,505 3,493	 	3,172 4,176
7-8 visits 333,522 9-10 visits 739,021 11-12 visits 1,003,513 13-14 visits 646,478 15-16 visits 447,611 17-18 visits 96,300 19 visits or more 140,751 Not stated 137,312  Median number of visits 12.3  White, total 3,093,057  No visits 26,132	200,056 572,955 910,282 610,592 424,414 91,825 132,733 53,844	377,478 691,333 503,996 361,133 77,897 115,228 41,534	78,350 195,477 218,949 106,596 63,281 13,928 17,505	113,534 149,518 84,448 31,548 20,089	15,756 8,505 3,493 1,455	15,756 8,505 3,493		4,176
9-10 visits     739,021       11-12 visits     1,003,513       13-14 visits     646,478       15-16 visits     447,611       17-18 visits     96,300       19 visits or more     140,751       Not stated     137,312       Median number of visits     12.3       White, total     3,093,057       No visits     26,132	572,955 910,282 610,592 424,414 91,825 132,733 53,844	377,478 691,333 503,996 361,133 77,897 115,228 41,534	195,477 218,949 106,596 63,281 13,928 17,505	149,518 84,448 31,548 20,089	8,505 3,493 1,455	8,505 3,493		
11-12 visits     1,003,513       13-14 visits     646,478       15-16 visits     447,611       17-18 visits     96,300       19 visits or more     140,751       Not stated     137,312       Median number of visits     12.3       White, total     3,093,057       No visits     26,132	910,282 610,592 424,414 91,825 132,733 53,844	691,333 503,996 361,133 77,897 115,228 41,534	218,949 106,596 63,281 13,928 17,505	84,448 31,548 20,089	3,493 1,455	3,493		
13-14 visits       646,478         15-16 visits       447,611         17-18 visits       96,300         19 visits or more       140,751         Not stated       137,312         Median number of visits       12.3         White, total       3,093,057         No visits       26,132	610,592 424,414 91,825 132,733 53,844	503,996 361,133 77,897 115,228 41,534	106,596 63,281 13,928 17,505	31,548 20,089	1,455			5,290
15-16 visits       447,611         17-18 visits       96,300         19 visits or more       140,751         Not stated       137,312         Median number of visits       12.3         White, total       3,093,057         No visits       26,132	424,414 91,825 132,733 53,844	361,133 77,897 115,228 41,534	63,281 13,928 17,505	20,089		1.700		2,883
17-18 visits       96,300         19 visits or more       140,751         Not stated       137,312         Median number of visits       12.3         White, total       3,093,057         No visits       26,132	91,825 132,733 53,844 12.6	77,897 115,228 41,534	13,928 17,505			1,066		2,042
19 visits or more       140,751         Not stated       137,312         Median number of visits       12.3         White, total       3,093,057         No visits       26,132	132,733 53,844 12.6	115,228 41,534	17,505		224	224		475
Not stated       137,312         Median number of visits       12.3         White, total       3,093,057         No visits       26,132	53,844 12.6	41,534		6,703	416	416		899
White, total       3,093,057         No visits       26,132		40.0	12,010	10,368	3,417	3,417		69,683
No visits	0.544.040	12.8	11.6	9.6	5.4	5.4		10.3
	2,541,849	1,945,679	596,170	383,106	100,212	74,080	26,132	67,890
					26,132		26,132	
1-2 visits	5,890	3,811	2,079	5,627	12,443	12,443	20,132	1,086
3-4 visits	14,636	8,245	6,391	19,451	18,324	18,324		1,335
5-6 visits	53,041	30,410	22,631	50,724	18,230	18,230		2,075
7-8 visits	156,404	96,429	59,975	81,241	11,308	11,308		3,004
9-10 visits	461,281	307,245	154,036	108.959	6,181	6,181	•••	5,795
11-12 visits	757.920	579,782	178,138	63,432	2,686	2,686		4,124
13-14 visits	515,339	427,043	88,296	24,153	1,190	1,190	•••	2,311
	349,674	298,981	50,693	15,052	837	837	•••	1,591
	76,898		11,356	2,872	189	189		372
17-18 visits	109,833	65,542 96,172	13,661	4,767	315	315		697
19 visits or more	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	2,024,891	1,581,949	442,942	238,182	54,570	40,713	13,857	41,346
No visits					13,857		13,857	
1-2 visits	3,159	2,115	1,044	2,981	6,517	6,517		641
3-4 visits	8,550	5,013	3,537	10,458	9,392	9,392		761
5-6 visits	34,923	20,819	14,104	28,989	9,739	9,739		1,217
7-8 visits	113,698	72,195	41,503	48,858	6,579	6,579		1,743
9-10 visits	348,934	239,305	109,629	67,321	3,697	3,697	•••	3,775
11-12 visits	618,716	480,076	138,640	43,787	1,764	1,764		3,012
13-14 visits	431.364	359.454	71,910	17,378	823	823		1,816
15-16 visits	283.410	245,557	37,853	9,683	561	561		1,216
17-18 visits	63,701	54,795	8,906	2,086	126	126		287
19 visits or more	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		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	
1-2 visits	2,904	1,725	1,179	3,837	5,417	5,417		801
3-4 visits	6,611	3,621	2,990	9,477	6,729	6,729		653
5-6 visits	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	80,316	50,347	29,969	31,950	1,786	1,786		1,687
11-12 visits	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	55,629	45,988	9,641	4,155	167	167		336
17-18 visits	11,163	9,175	1,988	703	23	23		81
19 visits or more	18,136	14,973	3,163	1,691	72	72		158
Not stated	10,272	7,499	2,773	2,965	801	801		19,306
30,011	. 5,=. =	.,	_,	_,000				. 5,550
Median number of visits 11.5	12.4	12.7	11.2	9.2	5.0	5.0		9.4

See footnotes at end of table.

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

	_			Month o	f pregnancy pre	enatal care be	egan		
Number of prenatal visits	All		1st trimester		2d trimester	L	ate or no care		N/-4
and race and Hispanic origin of mother	births -	Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	Not stated
Black, non-Hispanic	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 <sup>2</sup>	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

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

Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 1996

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

Obstatilia nasa adam and	Δ.ΙΙ	Obstetric			,	Age of moth	er			Mark
Obstetric procedure and race of mother	All births	procedure reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-49 years	Not stated
All races <sup>1</sup>										
Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound 2	3,891,494 3,891,494 3,891,494 3,891,494 3,891,494 3,881,339	124,711 3,184,945 653,877 652,196 83,662 2,457,576	32.3 825.3 169.4 169.0 21.7 638.7	9.1 833.8 151.0 177.0 24.0 618.2	10.6 828.0 164.9 172.2 22.1 630.3	14.8 827.2 176.8 171.6 21.4 644.6	27.6 823.5 175.0 165.9 20.8 649.0	140.6 812.7 170.3 155.6 20.4 645.5	192.4 794.9 174.4 146.2 22.0 635.8	32,311 32,311 32,311 32,311 32,311 33,366
White										
Amniocentesis  Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound <sup>2</sup>	3,093,057 3,093,057 3,093,057 3,093,057 3,093,057 3,085,504	106,391 2,540,938 554,925 529,023 66,723 1,992,208	34.7 828.6 181.0 172.5 21.8 651.5	9.3 836.7 165.0 183.7 24.7 635.0	10.8 830.1 177.3 176.7 22.4 642.8	15.1 831.0 187.5 174.9 21.4 656.2	28.7 828.1 184.8 168.4 20.7 660.2	148.8 816.8 179.1 158.7 20.4 656.5	205.5 798.2 183.8 149.1 22.1 646.9	26,456 26,456 26,456 26,456 26,456 27,451
Black										
Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound <sup>2</sup>	594,781 594,781 594,781 594,781 594,781 592,410	10,722 487,391 73,716 91,358 12,430 344,461	18.2 825.1 124.8 154.7 21.0 585.6	8.3 833.0 117.6 162.1 21.4 578.3	9.8 830.4 122.9 158.4 20.9 587.2	13.0 823.0 128.2 152.8 21.0 589.4	20.2 815.7 129.0 149.0 21.3 587.4	76.8 808.6 131.8 138.3 19.8 584.9	109.4 810.7 144.5 133.3 20.5 589.4	4,095 4,095 4,095 4,095 4,095 4,146

Includes races other than white and black.
 Delaware does not report this procedure.

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]

	A.11	0 !' !'			Α	ge of moth	er			Mari
Complication and race of mother	All births <sup>1</sup>	Complication reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-49 years	Not stated
All races <sup>2</sup>										
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 <sup>3</sup>	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	8.0	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 <sup>4</sup>	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 <sup>3</sup>	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 <sup>4</sup> '	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 <sup>3</sup>	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 <sup>4</sup>	555,925	29,961	54.4	52.0	50.6	54.1	58.5	65.1	78.7	5,675

<sup>\*</sup> Figure does not meet standards of reliability or precision.

Total number of births to residents of areas reporting specified complication. Includes races other than white and black.

New Jersey does not report this complication.

Texas does not report this complication.

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

			Physician			Midwife			
Place of delivery and race and Hispanic origin of mother	All births	Total	Doctor of medicine	Doctor of osteopathy	Total	Certified nurse midwife	Other midwife	Other	Unspecified
All races <sup>1</sup>									
Total	3,891,494	3,613,070	3,467,500	145,570	252,782	238,994	13,788	21,708	3,934
In hospital <sup>2</sup> Not in hospital Freestanding birthing center Clinic or doctor's office Residence Other Not specified	3,853,728 37,085 10,278 778 23,784 2,245 681	3,606,958 5,847 1,698 373 3,037 739 265	3,462,508 4,748 1,051 304 2,700 693 244	144,450 1,099 647 69 337 46 21	232,628 19,892 8,383 285 10,942 282 262	229,855 8,884 5,981 123 2,604 176 255	2,773 11,008 2,402 162 8,338 106	11,446 10,228 190 104 8,873 1,061	2,696 1,118 7 16 932 163 120
White, total	001	203	244	21	202	255	,	34	120
Total	3,093,057	2,878,429	2,752,896	125,533	195,044	182,383	12,661	16,462	3,122
In hospital <sup>2</sup> Not in hospital Freestanding birthing center Clinic or doctor's office Residence Other Not specified	3,060,406 32,052 9,708 671 20,223 1,450 599	2,873,945 4,252 1,636 310 1,934 372 232	2,749,470 3,214 993 248 1,628 345 212	124,475 1,038 643 62 306 27 20	175,844 18,946 7,894 271 10,531 250 254	173,880 8,256 5,577 113 2,411 155 247	1,964 10,690 2,317 158 8,120 95	8,342 8,099 171 75 7,106 747 21	2,275 755 7 15 652 81 92
White, non-Hispanic									
Total	2,358,989	2,208,314	2,104,458	103,856	136,613	126,230	10,383	11,887	2,175
In hospital <sup>2</sup> Not in hospital Freestanding birthing center Clinic or doctor's office Residence Other Not specified	2,332,333 26,236 6,920 585 17,729 1,002 420	2,204,537 3,582 1,421 269 1,617 275 195	2,101,706 2,573 787 210 1,324 252 179	102,831 1,009 634 59 293 23 16	121,038 15,396 5,350 237 9,637 172 179	119,479 6,579 4,190 92 2,212 85 172	1,559 8,817 1,160 145 7,425 87	5,186 6,685 146 65 5,961 513	1,572 573 3 14 514 42 30
Black, total									
Total	594,781	548,597	533,468	15,129	41,739	40,928	811	3,970	475
In hospital <sup>2</sup> Not in hospital Freestanding birthing center Clinic or doctor's office Residence Other Not specified	590,877 3,832 356 45 2,773 658 72	547,226 1,340 36 34 965 305 31	532,136 1,302 35 33 944 290 30	15,090 38 1 1 21 15	41,192 543 309 6 207 21 4	40,514 410 253 5 136 16 4	678 133 56 1 71 5	2,291 1,668 11 5 1,400 252	168 281 - - 201 80 26
Black, non-Hispanic									
Total	578,099	534,659	519,986	14,673	39,143	38,352	791	3,878	419
In hospital <sup>2</sup> Not in hospital Freestanding birthing center Clinic or doctor's office Residence Other Not specified	574,368 3,686 330 44 2,680 632 45	533,324 1,308 34 33 943 298 27	518,690 1,270 33 32 922 283 26	14,634 38 1 1 21 15	38,649 490 285 6 182 17 4	37,982 366 230 5 118 13	667 124 55 1 64 4	2,235 1,632 11 5 1,371 245	160 256 - - 184 72 3
Hispanic <sup>3</sup>									
Total	701,339	638,539	618,859	19,680	57,787	55,628	2,159	4,192	821
In hospital <sup>2</sup> Not in hospital	696,135 5,173 2,766 79 1,924 404 31	637,939 584 211 34 248 91 16	618,288 559 204 30 238 87 12	19,651 25 7 4 10 4 4	54,416 3,362 2,526 34 731 71 9	54,031 1,588 1,368 21 135 64	385 1,774 1,158 13 596 7	3,119 1,070 25 10 828 207 3	661 157 4 1 117 35 3

<sup>-</sup> Quantity zero.

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

2 Includes births occurring en route to or on arrival at hospital.

3 Persons of Hispanic origin may be of any race.

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

			Births by	method of de	elivery			Cesarean	delivery rate	5
Year and race		Vagi	nal		Cesarean					<ul> <li>Rate of vaginal birt</li> </ul>
and Hispanic origin of mother	All births	Total	After previous cesarean	Total	Primary	Repeat	Not stated	Total <sup>1</sup>	Primary <sup>2</sup>	after previous cesarean <sup>3</sup>
All races <sup>4</sup>										
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
994	3,952,767	3,087,576	110,341	830,517	520,647	309,870	34,674	21.2	14.9	26.3
993 992	4,000,240 4,065,014	3,098,796 3,100,710	103,581 97,549	861,987 888,622	539,251 554,662	322,736 333,960	39,457 75,682	21.8 22.3	15.3 15.6	24.3 22.6
991	4,110,907	3,100,710	90,690	905,077	569,195	335,882	104,939	22.6	15.9	21.3
990 5	4,110,563	3,111,421	84,299	914,096	575,066	339,030	85,046	22.7	16.0	19.9
989 6	3,798,734	2,793,463	71,019	826,955	521,873	305,082	178,316	22.8	16.1	18.9
White, total										
996	3,093,057	2,434,079	93,783	631,409	395,851	235,558	27,569	20.6	14.5	28.5
995	3,098,885	2,435,191	90,940	639,818	401,098	238,720	23,876	20.8	14.6	27.6
994	3,121,004	2,435,965	88,471	656,400	407,946	248,454	28,639	21.2	14.8	26.3
993 992	3,149,833 3,201,678	2,435,229 2,434,959	82,995 77,977	682,355 705,841	423,540 437,398	258,815 268,443	32,249 60,878	21.9 22.5	15.3 15.7	24.3 22.5
991	3,241,273	2,434,900	72,564	703,041	452,534	270,554	83,285	22.9	16.1	21.1
990 <sup>5</sup>	3,252,473	2,453,857	67,191	732,713	458,656	274,057	65,903	23.0	16.1	19.7
989 6	3,022,537	2,212,843	56,851	667,114	418,177	248,937	142,580	23.2	16.2	18.6
White, non-Hispanic										
996	2,358,989	1,851,058	73,973	485,530	308,482	177,048	22,401	20.8	14.8	29.5
995	2,382,638	1,867,024	72,124	496,103	313,933	182,170	19,511	21.0	14.9	28.4
994	2,438,855	1,896,609	71,597	518,021	324,236	193,785	24,225	21.5	15.1	27.0
993	2,472,031 2,527,207	1,902,433 1,916,414	67,536 63,828	542,013 566,788	338,236 352,470	203,777 214,318	27,585 44,005	22.2 22.8	15.6 16.0	24.9 22.9
992 <sup>8</sup> 991 <sup>8</sup> 990 <sup>5</sup> , <sup>9</sup>	2,589,878	1,941,726	60,174	587,802	368,721	219,081	60,350	23.2	16.4	21.5
aan 5, 9	2,626,500	1,972,754	55,952	603,467	378,508	224,959	50,279	23.4	16.5	19.9
989 6, 10	2,526,367	1,806,753	47,559	556,585	349,858	206,727	163,029	23.6	16.6	18.7
Black, total										
996	594,781	462,378	16,866	128,357	82,646	45,711	4,046	21.7	15.6	27.0
995	603,139	468,984	16,224	130,482	84,441	46,041	3,673	21.8	15.7	26.1
994	636,391	493,879	16,970	138,067	88,636	49,431	4,445	21.8	15.7	25.6
993	658,875	509,816	16,179	143,452	91,677	51,775	5,607	22.0	15.7	23.8
992 991	673,633 682,602	514,929 519,047	15,382 14,213	146,480 145,583	93,165 92,645	53,315 52,938	12,224 17,972	22.1 21.9	15.7 15.5	22.4 21.2
990 5	679,236	516,581	13,496	146,472	93,476	52,996	16,183	22.1	15.7	20.3
989 6	611,147	452,291	11,104	127,907	82,695	45,212	30,319	22.0	15.8	19.7
Black, non-Hispanic										
996	578,099	449,544	16,322	124,836	80,457	44,379	3,719	21.7	15.7	26.9
995	587,781	457,104	15,721	127,171	82,395	44,776	3,506	21.8	15.7	26.0
994	619,198	480,551	16,478	134,526	86,411	48,115	4,121	21.9	15.7	25.5
993 992 <sup>8</sup>	641,273 657,450	496,333 502,669	15,675 14,950	139,702 143,153	89,315 91,086	50,387 52,067	5,238 11,628	22.0 22.2	15.7 15.7	23.7 22.3
991 <sup>8</sup>	666,758	502,669	13,847	143,153	90,664	52,067 51,753	16,819	21.9	15.7	22.3 21.1
990 5, 9	661,701	503,720	13,157	142,838	91,175	51,663	15,143	22.1	15.7	20.3
991 8 990 5, 9 989 6, 10	611,269	440,310	10,726	125,290	81,177	44,113	45,669	22.2	15.9	19.6
Hispanic <sup>7</sup>										
996	701,339	558,105	18,491	139,554	83,392	56,162	3,680	20.0	13.4	24.8
995	679,768	539,731	17,396	136,640	82,662	53,978	3,397	20.2	13.7	24.4
994	665,026	525,928	16,206	135,569	81,961	53,608	3,529	20.5	13.9	23.2
993	654,418	514,493	14,586	136,279	82,576	53,703	3,646	20.9	14.2	21.4
992 8 991 8	643,271	494,338	13,111	133,369 129,752	81,211	52,158	15,564 21,207	21.2	14.4	20.1
990 5, 9	623,085 595,073	472,126 458,242	11,615 10,395	129,752	80,228 76,027	49,524 46,942	13,862	21.6 21.2	14.8 14.5	19.0 18.1
989 6, 10		700,272	10,000	122,000	10,021	70,072	10,002	£1.£	17.0	10.1

Percent of all live births by cesarean delivery.

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

Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

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

Excludes data for Oklahoma, which did not report method of delivery on the birth certificate.

Excludes data for Louisiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.

Persons of Hispanic origin may be of any race.

Excludes data for New Hampshire which did not report Hispanic origin.

Excludes data for New Hampshire and Oklahoma which did not report Hispanic origin.

Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

Table 40. Live births by method of delivery, and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by age and race and Hispanic origin of mother: United States, 1996

			Births by	method of de	livery			Cesarean	delivery rate	5.4.4
Age and race and Hispanic		Vagi	nal		Cesarean					Rate of vaginal
origin of mother	All births	Total	After previous cesarean	Total	Primary	Repeat	Not stated	Total <sup>1</sup>	Primary <sup>2</sup>	birth after previous cesarean <sup>3</sup>
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
		- ,	-,	162,789	- ,		-,		13.1	30.6
20-24 years	945,210	774,542	21,852		113,189	49,600	7,879	17.4 20.6	14.5	29.3
25-29 years	1,071,287	843,609	33,830	218,535	136,873	81,662	9,143			
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
10-49 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
10-49 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
	616,224	469,754	25,732	140,761	79,529	61,232	5,709	23.1	15.2	29.6
80-34 years	274,431	199,956	12,632	71,777	38,397	33,380	2,698	26.4	17.0	27.5
35-39 years 10-49 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
la de a 00	405 700	440.570	4 440	04.454	40.500	0.055	700	45.0	44.0	00.4
Jnder 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
80-34 years	94,295	67,630	3,762	25,930	14,470	11,460	735	27.7	18.5	24.7
85-39 years	43,716	29,580	1,622	13,804	7,687	6,117	332	31.8	21.6	21.0
10-49 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
0-34 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
10-49 years	8,110	5,205	254	2,843	1,735	1,108	62	35.3	25.9	18.6
Hispanic <sup>5</sup>	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
			4.437		14,767	15,809	625	25.7		21.9
30-34 years	119,690	88,489		30,576					14.9	
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

Percent of all live births by cesarean delivery.

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

Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

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

Persons of Hispanic origin may be of any race.

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

[By place of residence]

	Cesarean delivery rate 1							ate of vag	inal births af	ter previou	ıs cesareaı	n <sup>2</sup>
		W	nite	Bla	ack			W	nite	Bla	ack	
State	All races <sup>3</sup>	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic <sup>4</sup>	All races 3	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic <sup>4</sup>
United States <sup>5</sup>	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	07.0	20.0	20.0	40.0
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		05.4	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 18.6	20.2 18.7	21.1 19.6	21.2 19.6	21.2 17.4	26.3 35.7	26.6 35.5	26.8 35.3	24.1	24.0 33.3	24.1 36.6
lowa Kansas	18.6 19.2	19.3	19.4	19.8	19.0	19.0	25.1	25.0	24.6	34.8 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	Z1.1 *
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 New Hampshire	19.3 20.3	19.0 20.2	20.6 20.2	22.1 21.6	22.3	15.7 22.9	29.0 31.7	29.2 31.7	26.5 31.7	30.2	29.5	35.5
					00.0					00.0	00.4	00.0
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 North Dakota	21.1 18.9	21.1 18.2	21.5 18.2	21.4 24.7	21.4 23.3	15.9 20.4	29.3 28.9	29.0 31.2	28.5 31.2	29.4	29.5	37.0
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 Wyoming	15.6 18.3	16.2 18.4	16.3 18.6	12.0	12.0	13.7 16.3	35.5 34.2	35.8 34.4	35.6 34.2	30.1	30.1	39.2
				04.0						0.7		
Puerto Rico	31.5	32.1	26.9	24.2	20.5	 25.0	8.2	8.2	*	8.7	 21.2	*
Virgin Islands	22.4 15.1	26.3 13.7	26.8 14.4	21.6	20.5	25.9	21.8 16.9	*	*	20.1	Z1.Z *	*
Guam	15.1	13.7	14.4				10.9					

<sup>\*</sup> 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.

Persons of Hispanic origin may be of any race.
 Excludes data for Puerto Rico, Virgin Islands, and Guam.

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

	All births to mothers	Cesarean	delivery rate	Rate of
Medical risk factor and complication	with specified condition and/or procedure	Total <sup>1</sup>	Primary <sup>2</sup>	vaginal birth after previous cesarean <sup>3</sup>
Medical risk factors				
nemia	75.400	22.0	15.6	31.9
ardiac disease		24.1	17.5	32.2
cute or chronic lung disease		24.2	17.8	30.6
viabetes		35.2	25.4	20.3
Genital herpes <sup>4</sup>	31.795	36.0	30.4	30.8
lydramnios/Oligohydramnios		37.0	31.8	25.9
lemoglobinopathy		24.0	17.9	33.5
lypertension, chronic		38.6	29.5	20.0
lypertension, pregnancy-associated	137,724	36.1	31.5	22.4
clampsia		47.8	43.7	17.7
ncompetent cervix	•	31.8	25.1	28.3
lenal disease <sup>5</sup>	10,372	24.1	17.9	30.7
th sensitization <sup>6</sup>	24,396	21.5	15.3	33.8
Iterine bleeding <sup>4</sup>	25,671	31.2	24.7	28.0
Complications of labor and/or delivery				
ebrile	61.850	30.3	28.4	49.0
leconium, moderate/heavy		20.6	17.6	47.5
remature rupture of membrane		25.1	22.0	41.4
bruptio placenta		58.1	53.8	18.5
lacenta previa		81.6	77.4	4.3
Other excessive bleeding 7	21,142	27.3	21.4	34.1
eizures during labor	1.617	42.6	40.9	36.8
recipitous labor (less than 3 hours)		2.8	1.8	76.5
rolonged labor (more than 20 hours)		35.5	34.0	45.7
Pysfunctional labor		63.1	60.4	17.3
reech/Malpresentation		84.7	83.0	5.3
Cephalopelvic disproportion		96.5	96.1	1.4
ord prolapse		66.4	63.9	13.8
nesthetic complication 8		41.8	32.1	20.7
etal distress <sup>8</sup>	147,814	54.5	51.7	23.9

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.

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

						Per	iod of gestati	on <sup>2</sup>				
Birthweight <sup>1</sup> and	All			Preterm				Term	)		Postterm	
race and Hispanic origin of mother	births	Total under 37 weeks	Under 28 weeks	28-31 weeks	32-35 weeks	36 weeks	Total 37-41 weeks	37-39 weeks	40 weeks	41 weeks	42 weeks and over	Not stated
						Nu	mber					
All races <sup>3</sup>	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 21,094 26,869 55,943 177,862 639,110 1,434,698 1,127,294 336,514 55,558 6,268 4,822	5,295 20,519 24,748 45,417 87,029 110,395 84,825 35,121 7,309 1,192 155 1,102	5,069 15,130 3,666 1,019 767 1,111 - - - 694	203 4,734 13,898 10,513 4,107 4,308 4,955 2,449	21 618 6,641 29,177 55,462 49,820 36,318 16,287 3,726 564 77 207	2 37 543 4,708 26,693 55,156 43,552 16,385 3,583 628 78 93	9 182 1,414 8,865 82,808 483,440 1,215,035 964,314 284,370 46,093 5,124 1,371	3 116 1,015 7,257 66,692 347,337 718,399 460,764 113,468 17,297 2,089 773	4 36 241 1,035 10,856 92,877 328,702 316,002 100,540 16,037 1,652 359	2 30 158 573 5,260 43,226 167,934 187,548 70,362 12,759 1,383 239	2 23 254 860 6,059 38,573 120,937 117,637 41,576 7,732 903 157	156 370 453 801 1,966 6,702 13,901 10,222 3,259 541 86 2,192
						Pe	rcent					
Very low birthweight <sup>4</sup> Low birthweight <sup>5</sup>	1.4 7.4	12.0 43.4	89.2 95.8	41.7 74.1	3.7 46.3	0.4 21.1	0.1 3.0	0.1 4.3	0.0 1.4	0.0 1.2	0.1 2.2	2.5 9.7
						Nu	mber					
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 12,785 17,782 38,421 123,825 458,830 1,127,144 956,042 296,883 49,494 5,415 3,430	2,907 12,404 16,424 31,246 61,607 79,396 61,717 26,624 5,805 944 122 727	2,768 8,864 2,251 561 414 618 - - - 436	126 3,119 9,214 7,154 2,429 2,443 3,151 1,769	11 397 4,583 20,295 39,770 35,280 25,150 12,088 2,945 425 56 145	2 24 376 3,236 18,994 41,055 33,416 12,767 2,860 519 66 67	9 127 907 6,074 56,804 347,497 960,282 821,552 251,658 41,206 4,445 1,088	3 76 657 4,998 45,875 249,634 565,664 390,155 99,439 15,179 1,746 600	4 27 146 677 7,365 66,350 260,318 270,220 89,541 14,454 1,463 289	2 24 104 399 3,564 31,513 134,300 161,177 62,678 11,573 1,236 199	17 151 583 4,134 27,436 94,688 99,510 36,654 6,883 784 117	90 237 300 518 1,280 4,501 10,457 8,356 2,766 461 64 1,498
						Pe	rcent					
Very low birthweight <sup>4</sup> Low birthweight <sup>5</sup>	1.1 6.3	10.6 41.6	89.7 96.0	42.4 75.0	3.5 46.1	0.4 20.0	0.0 2.6	0.1 3.8	0.0 1.2	0.0 1.0	0.1 1.8	2.2 8.4
						Nu	mber					
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 9,609 13,521 29,786 94,688 338,305 839,320 745,169 239,174 40,507 4,333 2,342	2,192 9,398 12,625 24,412 47,876 59,738 42,980 18,095 3,965 84 575	2,087 6,630 1,629 383 284 401 - - - 3333	94 2,448 7,147 5,523 1,697 1,586 2,009 1,204	11 299 3,557 15,937 30,944 26,027 16,307 7,839 1,936 272 34 116	21 292 2,569 14,951 31,724 24,664 9,052 2,029 380 50 60	7 93 638 4,680 43,035 256,520 721,732 646,251 204,518 33,947 3,572 921	2 56 469 3,883 34,945 185,272 425,755 305,794 79,981 12,201 1,369 511	3 19 95 494 5,447 48,242 195,058 213,046 73,112 12,047 1,185 246	2 18 74 303 2,643 23,006 100,919 127,411 51,425 9,699 1,018 164	12 103 436 3,120 19,918 69,557 76,659 29,243 5,647 639 97	36 106 155 258 657 2,129 5,051 4,164 1,448 261 38 749
						Pe	rcent					
Very low birthweight <sup>4</sup> Low birthweight <sup>5</sup>	1.1 6.4	10.9 43.5	90.6 96.5	44.6 77.9	3.7 49.2	0.4 20.8	0.0 2.5	0.1 3.7	0.0 1.1	0.0 1.0	0.1 1.8	2.1 8.5

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.

						Peri	od of gestation	on <sup>2</sup>				
Birthweight <sup>1</sup> and	All			Preterm				Term	1		Postterm	
race and Hispanic origin of mother	births	Total under 37 weeks	Under 28 weeks	28-31 weeks	32-35 weeks	36 weeks	Total 37-41 weeks	37-39 weeks	40 weeks	41 weeks	42 weeks and over	Not stated
						Nur	nber					
Black, total	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 7,536 7,949 14,937 44,560 138,659 224,383 121,528 27,199 4,140 565 1,052	2,218 7,382 7,309 12,177 21,412 25,327 18,336 6,690 1,140 185 27	5,747 1,280 427 329 431 - -	69 1,439 4,098 2,891 1,506 1,634 1,535 567	10 185 1,788 7,641 13,234 12,089 8,952 3,347 610 100 17 47	11 143 1,218 6,343 11,173 7,849 2,776 530 85 10	50 438 2,332 21,054 103,017 184,282 100,779 22,463 3,343 463 213	36 315 1,876 16,750 73,530 109,734 49,666 9,665 1,493 234 131	8 78 297 2,898 20,305 49,461 32,166 7,488 1,050 131 52	6 45 159 1,406 9,182 25,087 18,947 5,310 800 98 30	2 6 89 236 1,648 9,040 20,081 13,210 3,370 573 69 27	53 98 113 192 446 1,275 1,684 849 226 39 6
						Per	cent					
Very low birthweight <sup>4</sup> Low birthweight <sup>5</sup>	3.0 13.0	16.5 49.4		40.8 72.8	4.1 47.6	0.5 25.6	0.1 5.4	0.1 7.2	0.1 2.9	0.1 2.6	0.2 4.1	5.3 18.1
						Nur	nber					
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 7,387 7,811 14,660 43,627 135,480 218,044 117,360 26,118 3,967 544	2,167 7,239 7,185 11,954 20,967 24,822 17,890 6,495 1,119 181 24 328	325 427 - - - -	67 1,417 4,017 2,844 1,478 1,605 1,503 551	10 180 1,766 7,494 12,951 11,854 8,728 3,256 599 99 95 43	11 142 1,198 6,213 10,936 7,659 2,688 520 82 9	49 426 2,287 20,612 100,592 179,007 97,339 21,559 3,202 449 207	35 308 1,839 16,401 71,826 106,727 48,080 9,291 1,439 229 126	8 74 295 2,841 19,816 47,977 31,037 7,193 1,004 129 52	6 44 153 1,370 8,950 24,303 18,222 5,075 759 91 29	2 6 88 233 1,619 8,856 19,550 12,743 3,229 546 65 25	52 93 112 186 429 1,210 1,597 783 211 38 6 320
						Per	cent					
Very low birthweight <sup>4</sup> Low birthweight <sup>5</sup>	3.0 13.1	16.6 49.5		40.8 72.9	4.2 47.7	0.5 25.7	0.1 5.5	0.1 7.3	0.1 2.9	0.1 2.7	0.2 4.2	5.4 18.5
						Nur	nber					
Hispanic <sup>6</sup>	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 3,030 4,105 8,196 27,987 116,713 276,870 199,955 53,916 8,315 1,028 530	651 2,868 3,650 6,481 13,148 18,978 18,401 8,408 1,806 283 40	590 176 131 210 - - - -	29 641 2,015 1,546 713 848 1,127 562 - - - 12	99 969 4,121 8,399 9,006 8,780 4,204 988 148 24 27	4 76 638 3,905 8,914 8,494 3,642 818 135 16 6	2 34 271 1,336 13,284 88,150 228,924 165,788 43,909 6,715 831 148	1 20 188 1,071 10,543 62,374 134,521 80,075 18,308 2,817 369 79	1 8 55 171 1,847 17,562 62,462 53,917 15,219 2,203 258 37	6 28 94 894 8,214 31,796 10,382 1,695 204 32	5 46 142 972 7,308 24,347 21,762 6,959 1,132 132 19	41 123 138 237 583 2,277 5,198 3,997 1,242 185 25 227
						Per	cent					
Very low birthweight <sup>4</sup> Low birthweight <sup>5</sup>	1.1 6.3	9.6 35.9		35.9 66.1	2.9 37.0	0.3 17.4	0.1 2.7	0.1 3.8	0.0 1.4	0.0 1.2	0.1 1.9	2.2 8.0

<sup>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.
Birthweight of less than 1,500 grams.
Birthweight of less than 2,500 grams.
Persons of Hispanic origin may be of any race.</sup> 

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

V		Preterm <sup>1</sup>		Lo	w birthweigh	t <sup>3</sup>	Very	low birthweig	ght <sup>4</sup>
Year	All races <sup>2</sup>	White	Black	All races <sup>2</sup>	White	Black	All races <sup>2</sup>	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
1984 <sup>5</sup>	9.4	7.9	17.1	6.7	5.6	12.6	1.19	0.93	2.60
1983 <sup>5</sup>	9.6	8.0	17.7	6.8	5.7	12.8	1.19	0.92	2.60
1982 <sup>5</sup>	9.5	8.0	17.4	6.8	5.6	12.6	1.18	0.91	2.56
1981 <sup>5</sup>	9.4	7.9	17.3	6.8	5.7	12.7	1.16	0.91	2.52

<sup>1</sup> Births of less than 37 completed weeks gestation.

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.

lincludes races other than white and black.

lincludes races other than white and black.

Less than 2,500 grams (5 lb. 8 oz).

Less than 1,500 grams (3 lb. 4 oz).

Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

Table 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

Under 15 years		Low birthw	veight <sup>1</sup>							Birthweight <sup>2</sup>						
All ages 267,230 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 34 157 161 299 781 2,903 4,367 2,056 350 27 3 2 15-19 years 45,667 9.3 491,577 8.39 34,06 4,201 8,359 28,862 100,280 196,339 115,168 24,728 3,028 230 61 15,years 3,196 11.2 28,540 64 270 318 618 19,266 6,778 11,537 5,764 1,098 120 6 4 16,years 6,037 10.0 60,287 111 498 603 11,25 3,700 11,835 24,331 13,150 2,595 24,30 12 6 4 16,years 6,037 10.0 60,287 111 498 603 11,25 3,700 11,838 24,331 13,150 2,595 24,30 12 6 4 17,779 13,30 12 11,30 12 1	Hispanic origin	Number	Percent	Total	than 500	999	1,499	1,999	2,499	2,999	3,499	3,999	4,499	4,999	grams	
Under 15 years	All races <sup>3</sup>															
15-19 years	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
15 years		,													-	20
16 years																619
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 13 18 years 12,506 9.3 135,059 244 897 1.139 2.401 7.825 28,870 67,871 42,412 9,762 1.305 98 19 years 69,809 7.4 945,210 1.389 4,937 6,125 12,973 44,365 170,289 365,332 25,873 68,682 10,091 995 1.15 25-29 years 69,499 6.5 10,71,287 1.381 5,255 6,401 13,313 43,176 116,557 392,935 32,7639 100,223 16,6379 1,856 1,19 25-29 years 69,499 6.5 10,71,287 1.381 5,255 6,401 13,313 43,176 116,557 392,935 32,7639 100,223 16,379 1,856 1,19 25-29 years 6,874 1,974 1,		,														41
18 years																75
19 years									-,	, -	,					
20-24 years	10 years															
25-29 years 69,499 6.5 1,071,287 1,351 5,255 6,401 13,315 43,179 161,557 392,935 327,639 100,223 16,379 1,1866 1,193 1,126 4,222 5,793 12,486 5,795 127,695 315,106 281,123 393,622 164,033 1,877 1,119 1,193 1,194 1,195 1,19	20-24 years															
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 53-39 years 32,268 8.1 399,510 581 2,391 3,374 6,762 1,160 595,00 135,479 121,067 41,418 81,427 1,062 55 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 14,45-49 years 452 14.9 3,045 5 28 49 118 252 52 525 969 770 253 51 17 2 17 2 17 2 18 2 18 2 18 2 18 2 18	25-29 years															1,199
55-39 years 32,268 8.1 399,510 581 2,391 3,374 6,762 19,160 59,530 125,479 121,067 41,418 8,127 1,062 55,444,45-49 years 66,782 9,5 71,804 137 480 765 1,462 3,938 11,331 23,611 20,670 7,588 1,452 228 14,45-49 years 452 14.9 3,045 5 28 49 118 252 525 969 770 253 51 177 2 34,45-49 years 452 14.9 3,045 5 28 49 118 252 525 969 770 253 51 177 2 34,45-49 years 452 14.9 3,045 5 28 49 118 252 525 969 770 253 51 177 2 34,45-49 years 452 14.9 3,045 5 28 49 118 252 525 969 770 253 51 177 2 34,45-49 years 19,55-19 years 579 10.5 5,526 12 63 69 112 323 1,264 2,248 11,73 234 15 3 14 15-19 years 27,238 7.9 34,685 432 1,902 2,392 5,123 17,389 66,645 138,613 89,342 20,194 2,498 188 36 15 years 1,634 9,6 16,978 35 130 162 333 974 3,478 6,960 3,967 828 90 3 11 years 1,694 3,494 14,995 17 years 5,489 8,2 86,997 72 382 500 1,023 3,512 13,259 27,317 16,627 3,733 462 32 7,717 18 years 7,614 7,9 9,524 512 512 683 1,497 4,817 18,680 38,528 2,504 5,461 6,665 57 10 years 9,111 7,3 125,063 138 604 744 1,643 5,982 23,138 49,708 33,677 8,125 10,994 79 13,994 19,994																1.116
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 14.  45-49 years 4552 14.9 3,045 5 28 49 118 252 555 969 770 253 51 17   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 3,431  Under 15 years 579 10.5 5,526 12 6.3 69 112 323 1,264 2,248 1,173 234 15 3 15519 years 2,248 19,943 19,448 19,4																559
White, total  All ages	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
Name		452	14.9	3,045	5	28	49	118	252	525	969	770	253	51	17	8
Under 15 years	White, total															
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 36 15 years 1,634 9.6 16,978 35 130 162 333 974 3,478 6,960 3,967 828 90 3 1 16 years 3,330 8.6 39,401 62 274 323 627 2,104 8,090 16,000 9,623 2,047 196 17 3 16 years 5,489 8.2 66,997 72 382 500 1,023 3,512 13,259 27,317 16,627 3,733 462 32 7 18 years 7,614 7.9 96,246 125 512 663 1,497 4,817 18,680 38,628 25,048 5,461 656 57 100 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 13 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 8,748 836 777 25-29 years 49,346 5.6 678,449 766 3,299 4,099 9,460 31,422 120,483 318,176 283,770 89,498 14,692 1,810 87 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 42 40,49 years 47,664 8.2 58,062 83 226 55 1,022 2,838 8,452 118,932 17,660 6,669 1,284 16 14 4,949 years 370 15,2 2,448 4 22 47 92 205 407 762 628 215 43 16 16 16 16 16 16 16 16 16 16 16 16 16	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
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 36 15 years 1,634 9.6 16,978 35 130 162 333 974 3,478 6,960 3,967 828 90 3 1 16 years 3,330 8.6 39,401 62 274 323 627 2,104 8,090 16,000 9,623 2,047 196 17 3 16 years 5,489 8.2 66,997 72 382 500 1,023 3,512 13,259 27,317 16,627 3,733 462 32 7 18 years 7,614 7.9 96,246 125 512 663 1,497 4,817 18,680 38,628 25,048 5,461 656 57 100 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 13 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 8,748 836 777 25-29 years 49,346 5.6 678,449 766 3,299 4,099 9,460 31,422 120,483 318,176 283,770 89,498 14,692 1,810 87 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 42 40,49 years 47,664 8.2 58,062 83 226 55 1,022 2,838 8,452 118,932 17,660 6,669 1,284 16 14 4,949 years 370 15,2 2,448 4 22 47 92 205 407 762 628 215 43 16 16 16 16 16 16 16 16 16 16 16 16 16	Under 15 years	579	10.5	5 526	12	63	69	112	323	1 264	2 248	1 173	234	15	3	10
15 years																367
16 years       3,390       8,6       39,401       62       274       323       627       2,104       8,090       16,000       9,623       2,047       196       17       3         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       7,7         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       10         19 years       9,111       7,3       125,068       715       2,785       3,873       8,574       29,720       119,256       279,281       213,094       59,009       8,748       836       77       25,29 years       49,346       5,6       878,449       766       3,299       4,999       9,460       31,422       120,483       318,176       283,770       89,488       14,692       1,610       87         30,34 years       423,305       7,1       329,782       325       1,575       2,323       4,921       14,161       45,168       110,495       105,476       36,992			9.6													18
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 10. 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 13. 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 77. 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 87. 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 87. 25-29 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 42. 40-44 years 4,764 8.2 58,062 83 296 525 1,022 2,838 8,452 18,932 17,660 6,659 1,284 196 111. 45-49 years 370 15.2 2,448 4 22 47 92 205 407 762 628 215 43 16  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 2,34.  Under 15 years 285 11.3 2,532 5 36 33 63 148 553 950 589 136 12 1 1. 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 23. 15 years 2,063 8.9 23,312 46 174 193 385 1,265 4,477 9,122 6,065 1,412 139 13 2. 17 years 3,564 8.4 42,686 55 259 338 682 2,230 8,104 16,806 11,130 2,661 345 24 19 years 5,240 8.2 64,290 91 357 437 1,041 3,314 1,212 2,4964 17,413 3,933 515 43 51 9 years 5,240 8.2 64,290 91 357 437 1,041 3,314 1,212 2,4964 17,413 3,933 515 43 51 9 years 5,240 8.2 64,290 91 357 437 1,041 3,314 1,212 2,4964 17,413 3,933 515 43 51 9 years 6,527 7,6 85,838 100 435 547 1,182 4,263 15,294 33,166 23,735 6,096 867 63 9 years 5,349 years 9,148 57, 683,376 568 2,542 3,493 7,505 24,726 91,692 242,996 223,642 72,242 12,036 13,08 62 30,34 years 9,148 47,0 274,431 250 1,218 1,843 4,081 11,792 37,258 91,179 88,310 13,336 6,111 756 29 30,349 years 9,148 47,0 274,431 250 1,218 1,843 4,081 11,792 37,258 91,179 88,310 13,336 6,111 756 29 30,349 years 9,148 47,0 274,431 250 1,218 1,843 4,081 11,792 37,258 91,179 88,310 13,336 6,111 756 29		3,390	8.6						2,104	8,090	16,000	9,623				38
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 13 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 77 25-29 years 49,346 5.6 878,449 766 3,299 4,399 9,460 31,422 120,483 318,176 283,770 89,488 14,692 1,610 87 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 85 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 42 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 11: 45-49 years 370 15.2 2,448 4 22 47 92 205 407 762 628 215 43 16 10 495 14,845 14,945 1																78
20-24 years																102
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 87. 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 85. 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 42. 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 11: 45-49 years 370 15.2 2,448 4 22 47 92 205 407 762 628 215 43 16  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 2,34:  Under 15 years 285 11.3 2,532 5 36 33 63 148 553 950 589 136 12 1 1. 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 23. 15 years 863 9.5 9,071 26 80 82 173 502 1,782 3,532 2,294 528 61 2 2. 16 years 2,063 8.9 23,312 46 174 193 385 1,265 4,477 9,122 6,065 1,412 139 13 2,17 years 3,564 8.4 42,686 55 259 338 682 2,230 8,104 16,806 11,130 2,661 345 24 5. 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 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 19 years 32,675 6.4 508,056 520 1,989 2,769 6,298 21,099 81,124 189,813 15,222 14,286 6,777 642 512 2,279 30,34 years 36,465 5.9 616,224 512 2,273 3,340 7,482 2,2858 78,751 210,923 204,792 70,847 12,542 1,301 65-39 30,34 years 36,465 5.9 616,224 512 2,273 3,340 7,482 2,2858 78,751 210,923 204,792 70,847 12,542 1,302 135-39 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 29																131
30-34 years																
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 42 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 11: 45-49 years 370 15.2 2,448 4 22 47 92 205 407 762 628 215 43 16    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 2,34: 45-49 years 285 11.3 2,532 5 36 33 63 148 553 950 589 136 12 1 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 23 15 years 863 9.5 9,071 26 80 82 173 502 1,782 3,532 2,294 528 61 2 17 years 2,063 8.9 23,312 46 174 193 385 1,265 4,477 9,122 6,065 1,412 139 13 2 17 years 3,564 8.4 42,686 55 259 338 682 2,230 8,104 16,806 11,130 2,661 345 24 51 19 years 6,657 7,6 85,838 100 435 547 1,182 4,263 15,294 33,166 23,735 6,996 867 63 9 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 51 25-29 years 38,834 5.7 683,376 588 2,542 3,493 7,505 24,726 91,692 242,996 223,642 72,242 12,036 1,308 63-39 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 29 36 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 29																
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 11:45-49 years 370 15.2 2,448 4 22 47 92 205 407 762 628 215 43 16  White, non-Hispanic  All ages 285 11.3 2,532 5 36 33 63 148 553 950 589 136 12 1 1 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 23 15 years 863 9.5 9,071 26 80 82 173 502 1,782 3,532 2,294 528 61 2 17 years 2,063 8.9 23,312 46 174 193 385 1,265 4,477 9,122 6,065 1,412 139 13 21 7 years 3,554 8.4 42,686 55 259 338 682 2,230 8,104 16,806 11,130 2,661 345 24 55 18 years 6,527 7,6 85,838 100 435 547 1,182 4,263 15,294 33,166 23,735 6,096 867 63 9 20-24 years 32,675 6.4 508,056 520 1,989 2,769 6,298 21,099 81,124 189,813 15,221 44,286 6,777 642 512 52-9 years 36,655 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 58 36-39 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 29							, -	- ,								
45-49 years																
All ages																7
Under 15 years	White, non-Hispanic															
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 23 15 years 863 9.5 9,071 26 80 82 173 502 1,782 3,532 2,294 528 61 2 16 years 2,063 8.9 23,312 46 174 193 385 1,265 4,477 9,122 6,065 1,412 139 13 2 17 years 3,564 8.4 42,686 55 259 338 682 2,230 8,104 16,806 11,130 2,661 345 24 55 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 55 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 9 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 6,777 642 512 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 1,308 621 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 29	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
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 23 15 years 863 9.5 9,071 26 80 82 173 502 1,782 3,532 2,294 528 61 2 16 years 2,063 8.9 23,312 46 174 193 385 1,265 4,477 9,122 6,065 1,412 139 13 2 17 years 3,564 8.4 42,686 55 259 338 682 2,230 8,104 16,806 11,130 2,661 345 24 55 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 55 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 9 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 6,777 642 512 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 1,308 621 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 29	Under 15 years	285	11.3	2,532	5	36	33	63	148	553	950	589	136	12	1	6
15 years 863 9.5 9.071 26 80 82 173 502 1,782 3,532 2,294 528 61 2 16 years 2,063 8.9 23,312 46 174 193 385 1,265 4,477 9,122 6,065 1,412 139 13 2 17 years 3,564 8.4 42,686 55 259 338 682 2,230 8,104 16,806 11,130 2,661 345 24 55 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 55 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 96 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 6,777 642 512 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 1,308 623 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 58 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 29	15-19 years															231
17 years     3,564     8.4     42,686     55     259     338     682     2,230     8,104     16,806     11,130     2,661     345     24     55       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     55       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     9       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     51       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     62       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     58       35-39 years     19,184     7.0     274,431     250     1,218     1,	15 years															9
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     51       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     9       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     51       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     62       30-34 years     36,465     5.9     616,224     512     2,273     3,340     7,482     22,858     78,751     210,992     204,792     70,847     12,542     1,321     58       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     29																21
19 years																52
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       621         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       58         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       29																
25-29 years																518
30-34 years				,			,	-,	,	- ,	,					626
35-39 years																583
		,						,	,							297
	40-44 years	3,816	8.1	47,215	61	224	400		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	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.

Algorithm		Low birthw	reight <sup>1</sup>							Birthweight <sup>2</sup>						
Allages	Hispanic origin	Number	Percent	Total	than 500	999	1,499	1,999	2,499	2,999	3,499	3,999	4,499	4,999	grams	
Under 15 years	Black, total															
15-19 years	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
15 years														-	30	-
16   years																
17 years																
18 years															•	
19 years 5,044 12.6 d,0,176 118 452 503 933 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 7,0315 36,310 7,398 1,017 119 301 25-29 years 16,338 12.3 133,044 545 1,764 1,704 3,203 9,122 28,699 48,969 29,442 7,320 1,140 167 239 30-34 years 13,139 14.0 94,295 415 1,333 1,369 2,685 7,273 19,676 33,362 21,275 5,757 978 142 187 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 3 13,488 14. 61,22 46 144 189 309 800 1,766 2,560 1,676 495 100 21 13 46-49 years 5 3 18.2 232 - 6 2 18 29 61 29 61 29 61 29 66 15 2 - 7 18 18 18 18 18 18 18 18 18 18 18 18 18																
20-24 years	10 years															
25-29 years																
90-34 years 13,139 14.0 94.295 415 1,383 1,360 2,685 7,287 19,676 33,326 2,1275 5,572 978 142 187 50-59 years 6,691 16.0 43,76 218 698 850 1,472 3,753 9,453 14,647 9,345 2,605 494 86 95 40-44 years 5 3 18.2 22  - 6 2 16 29 61 94 66 15 2 - 1 1																
36-39 years 6.991 16.0 43.716 218 698 850 1.472 3.753 9.463 14.647 9.345 2.605 4.94 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 46-49 years 53 18.2 292 7- 6 2 16 29 61 94 66 15 2 7- 1 18 46-49 years 53 18.2 292 7- 1 18.89 309 8.00 1.766 2.560 1.676 495 100 21 18 46-49 years 53 18.2 292 7- 1 18.89 309 8.00 1.766 2.560 1.676 495 100 21 18 46-49 years 75.706 13.1 578.099 2.21 7.387 7.811 14.660 43.627 135.480 218.044 117.360 26.118 3.967 544 880 1.00 1.00 1.00 1.00 1.00 1.00 1.00	20-29 years															
40-44 years   1,488   18,4   81,24   46   144   189   309   800   1,766   2,560   1,676   495   100   21   18   45-49 years   53   18,2   29   2   7   6   2   16   29   61   94   66   15   2   7   1   18   18   18   18   18   18																
## Hispanic ## ## ## ## ## ## ## ## ## ## ## ## ##																
All ages	45-49 years				-										-	
Under 15 years	Black, non-Hispanic															
16-19 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 5 years 1,440 14.0 10,301 28 127 145 263 877 2,990 4,048 1,552 228 21 2 2 0 16 years 2,430 13.2 18,367 45 207 264 452 1,462 5,190 7,278 2,985 429 33 1 21 71 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 39,198 117 440 499 819 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 15,967 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 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 40-044 years 16.0 18.2 275 - 6 2 14 28 8 59 85 63 15 2 2 - 1 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 14,947 9,948 9,948 9,948 9,958 7,5 118,878 109 601 797 1,639 5,812 24,830 50,914 28,046 5,426 559 46 99 8 5 15 years 7,79 9,8	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
16-19 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 5 years 1,440 14.0 10,301 28 127 145 263 877 2,990 4,048 1,552 228 21 2 2 0 16 years 2,430 13.2 18,367 45 207 264 452 1,462 5,190 7,278 2,985 429 33 1 21 71 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 39,198 117 440 499 819 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 15,967 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 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 40-044 years 16.0 18.2 275 - 6 2 14 28 8 59 85 63 15 2 2 - 1 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 14,947 9,948 9,948 9,948 9,958 7,5 118,878 109 601 797 1,639 5,812 24,830 50,914 28,046 5,426 559 46 99 8 5 15 years 7,79 9,8	Under 15 years	786	15.5	5,084	21	91	80	162	432	1,490	1,917	778	96	9	-	8
15 years	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
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         3,5559         13.6         26,134         83         269         32.4         660         2,223         7,091         10,288         4,377         701         71         1         4         43         18 years         4,431         13.2         33,816         112         364         429         919         2,982         9,977         15,479         7,274         1,280         159         12         60           20-24 years         20,973         12.0         174,988         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         1,286         6,818         16.2         42,279         217																
17 years		2,430	13.2	18,367		207	264	452	1,462	5,190	7,278		429	33	1	21
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       23,40       6,989       1,088       160       185         30-34 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       1,51       18.6       7,835       44       138       18.8       301       7,709       2,472       1,602       472       96       2							324	660					701	71	4	
19 years	18 years														10	
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 5 1,451 18.6 7,835 44 138 188 301 780 1,709 2,472 1,602 472 96 20 13 45-49 years 5 0 18.2 275 - 6 2 14 28 59 85 63 15 2 2 - 1 1		4.957	12.7	39,198	117	440	499	919	2.982	9.977			1.280	159	12	60
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 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 1.0 1 1,028 150 150 150 150 150 150 150 150 150 150	20-24 years															
30-34 ýears 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 11,146 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 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 10 10 10 10 10 10 10 10 10 10 10 10 10	25-29 years															
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 1.5 1,028 530 1.5 1,028 530 1.5 1,028 530 1.5 1,028 530 1.5 1,028 530 1.5 1,028 530 1.5 1,028 1.5																
40-44 years											,					
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 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 5.9 214,73 172 779 1,076 2,216 8,425 37,657 8,969 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 16,80 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	40-44 years	,														
All ages	45-49 years		18.2		-			14	28		85		15	2	-	
Under 15 years	Hispanic <sup>4</sup>															
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	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
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	Under 15 years	301				28			179		1,319					
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	15-19 years															
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	15 years	779	9.8	7,971	9						3,446	1,683			-	
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 <td>16 years</td> <td></td>	16 years															
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	17 years								, -		- ,					
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       56,800       16,180       2,467       287       287       310         30-34 years       7,439       6.2       119,690       150       507       766       1,502       4,514       17,025       43,840       37,603       18,842       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 <t< td=""><td>18 years</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	18 years															
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	19 years															
25-29 years	20-24 years							, -								
30-34 years	25-29 years															
35-39 years	30-34 years	7,439									43,840			, -		
40-44 years	35-39 years															
45-49 years	40-44 years					70										
	45-49 years	37	8.6	433	3	-	1	9	24	71	143	133	37	4	7	1

Quantity zero.
 Less than 2,500 grams.
 Equivalents of gram weights in terms of pounds and ounces are shown in Technical notes.
 Includes races other than white and black and origin not stated.
 Persons of Hispanic origin may be of any race.

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)]

			Numl	ber					Per	cent		
		Wh	nite	Bla	ack			WI	nite	Bla	ack	
State	All races 1	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic <sup>2</sup>	All races 1	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic <sup>2</sup>
United States <sup>3</sup>	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
ArkansasCalifornia	3,077 32,729	1,959 24,044	1,886 10,307	1,072 4,544	1,066	77 13,820	8.5 6.1	7.0 5.5	7.1 5.6	13.6 11.8	13.6 11.9	5.9 5.4
Colorado	4,906	4,334	3,253	387	4,418 370	1,064	8.8	5.5 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 1,071	234 1,023	200 863	44 3	41 3	131 146	7.3 5.8	4.9 5.7	4.9 5.5	8.6	8.4	6.1 6.7
IdahoIllinois	1,071	8,842	6,940	5,246	5,221	1,919	5.6 8.0	6.3	5.5 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 Massachusetts	6,158 5,069	2,914 4,082	2,692 3,510	3,064 750	3,018 655	201 613	8.6 6.4	6.3 6.0	6.4 5.7	13.4 10.4	13.4 11.2	6.2 8.0
Michigan	10,187	6,717	6,044	3,268	3,198	306	7.7	6.4	6.4	13.6	13.5	6.0
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 North Dakota	9,115 479	5,022 423	4,702 411	3,767 9	3,755 8	335 9	8.7 5.7	6.8 5.7	6.9 5.8	13.9	13.9	6.2
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	2 260	11	5.8	5.8	5.8	440	440	*
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 Utah	23,782 2,790	18,326 2,625	8,934 2,299	4,803 39	4,770 38	9,392 322	7.2 6.6	6.5 6.6	6.4 6.4	12.4 12.0	12.4 15.1	6.6 8.2
Vermont	2,790 417	412	383	39	30 1	322 4	6.2	6.2	6.0	12.0	10.1	o.z *
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	 7.0	
Virgin Islands	142	19	2	119	103	16	7.5	*	*	7.9	7.6	*
Guam	304	11	10	3	3	1	7.2					

<sup>\*</sup> Figure does not meet standards of reliability or precision.
--- Data not available.

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

Persons of Hispanic origin may be of any race.

Excludes data for Puerto Rico, Virgin Islands, and Guam.

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)]

			Numl	per					Per	cent		
		W	hite	Bla	ack	_		W	hite	Bla	ack	-
State	All races 1	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic <sup>2</sup>	All races 1	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic <sup>2</sup>
United States <sup>3</sup>	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 California	596 5,813	350 4,238	339 1,675	238 971	235 944	13 2,571	1.6 1.1	1.3 1.0	1.3 0.9	3.0 2.5	3.0 2.5	1.0
Colorado	715	634	466	61	58	159	1.1	1.0	1.2	2.3	2.3	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
Coorgio	1,915	797	725	1,099	1,094	63	1.7	1.1	1.1	2.9	2.9	1.0
Georgia Hawaii	1,913	45	42	9	1,094	17	1.7	0.9	1.0	2.9	2.9	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	787 944	246 631	245 608	533 302	533 302	1 22	1.9 1.3	1.1 1.0	1.2 1.0	2.8 2.7	2.8 2.7	1 5
Missouri Montana	121	105	90	302	302	6	1.3	1.0	1.0	Z.1 *	Z.I *	1.5
Nebraska	290	255	227	31	31	26	1.2	1.2	1.0	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	*	*	*
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 Pennsylvania	392 2,070	349 1,390	288 1,280	18 650	18 637	62 114	0.9 1.4	0.9 1.1	0.8 1.1	3.2	3.2	1.1 1.7
Rhode Island	129	98	64	27	22	21	1.4	0.9	0.8	2.9	3.0	1.7
South Carolina	922	384	367	531	531	16	1.8	1.2	1.2	3.0	3.0	*
South Dakota	101	384 79	367 79	2	2	16	1.8	0.9	0.9	3.U *	3.0 *	*
Tennessee	1,255	712	79	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	1.7	1.1	1.0	2.6	2.6	1.1
Utah	457	417	363	12	12		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	*	*	*	*	*

<sup>\*</sup> 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.

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	All	Abnormal				ge of moth	Ci			A1-4
	births <sup>1</sup>	condition reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-49 years	Not stated
All races <sup>2</sup>										
Anemia	3,891,494	4,240	1.1	1.2	1.1	1.1	1.1	1.2	1.2	70,766
Birth injury <sup>3</sup>	3,457,526	10,676	3.2	3.1	3.2	3.4	3.1	2.9	2.7	71,053
Fetal alcohol syndrome <sup>4</sup>	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 <sup>5</sup>	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	8.0	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 <sup>3</sup>	2,720,759	9,011	3.4	3.6	3.5	3.6	3.2	3.0	2.8	57,240
Fetal alcohol syndrome <sup>4</sup>	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 <sup>5</sup>	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 <sup>5</sup>	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 <sup>3</sup>	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 <sup>5</sup>	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

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.

<sup>\*</sup> 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.

Massachusetts, Nebraska, and Texas do not report this condition.

Wisconsin does not report this condition.

New York City does not report this condition.

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]

One was the Language and	A.II	Congenital			A	Age of moth	er			A1-4
Congenital anomaly and race of mother	All births <sup>1</sup>	anomaly reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-49 years	Not stated
All races <sup>2</sup>										
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	200.2	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

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]

	A.II	Congenital			Α	age of moth	er			
Congenital anomaly and race of mother	All births <sup>1</sup>	anomaly reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-49 years	Not stated
Black										
Ananaanhalisa	504.244	70	11.0	*	*	*	*	*	*	7.750
Anencephalus	594,314	70	11.9			40.0	*		*	7,759
Spina bifida/Meningocele	594,314	114	19.4	17.9	18.1	19.8			*	7,759
Hydrocephalus	594,314	136 77	23.2	23.9	17.0	22.1	28.0	*	*	7,759
Microcephalus	594,314		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
Other gastronitestinal anomalies	334,314	107	31.3	55.5	24.3	32.0	34.4			1,155
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

<sup>\*</sup> Figure does not meet standards of reliability or precision.

1 Total number of births.

2 Includes races other than white and black.

NOTES: Excludes data for New Mexico, which did not report congenital anomalies.

Race and Hispanic origin are reported separately on 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 50. Live births by plurality of birth and ratios, by age and race and Hispanic origin of mother: United States, 1996

						Age of n	nother				
Plurality and race and Hispanic origin	All ages	Under	1	15-19 years		20-24	25-29	30-34	35-39	40-44	45-49
of mother	ayes	15 years	Total	15-17 years	18-19 years	years	years	years	years	years	years
						Number					
All live births											
All races 1	3,891,494	11,148	491,577	185,721	305,856	945.210	1,071,287	897,913	399,510	71.804	3,045
White, total		5,526	344,685	123,376	221,309	726,669	878,449	747,436	329,782	58,062	2,448
White, non-Hispanic	2,358,989	2,532	225,197	75,069	150,128	508,056	683,376	616,224	274,431	47,215	1,958
Black, total	594,781	5,193	130,596	56,026	74,570	179,361	133,204	94,295	43,716	8,124	292
Black, non-Hispanic Hispanic <sup>2</sup>	578,099 701,339	5,084 3,056	127,616 118,878	54,802 48,344	72,814 70,534	174,958 214,173	129,002 185,478	91,050 119,690	42,279 49,812	7,835 9,819	275 433
Live births in single deliveries											
All races <sup>1</sup>	3,784,805	11,006	484,339	183,342	300,997	925,704	1,042,220	866,404	383,310	69,127	2,695
White, total		5,463	340,201	122,001	218,200	712,980	855,027	720,655	315,836	55,712	2,123
White, non-Hispanic		2,498	222,149	74,189	147,960	497,986	663,952	592,987	262,206	45,149	1,654
Black, total	577,057	5,122	128,049	55,087	72,962	174,193	128,606	90,800	42,106	7,900	281
Black, non-Hispanic Hispanic <sup>2</sup>	560,801 687,916	5,014 3,026	125,124 117,436	53,886 47,839	71,238 69,597	169,877 210,682	124,519 181,786	87,676 116,603	40,708 48,354	7,619 9,603	264 426
Live births in twin deliveries											
All races <sup>1</sup>	100,750	139	7,161	2,359	4,802	19,134	27,612	28,963	14,958	2,467	316
White, total	79,677	63	4,448	1,363	3,085	13,400	22,120	24,390	12,813	2,152	291
White, non-Hispanic	65,523	34	3,029	880	2,149	9,824	18,260	21,031	11,185	1,890	270
Black, total	17,285	68	2,510	931	1,579	5,088	4,470	3,388	1,538	212	11
Black, non-Hispanic Hispanic <sup>2</sup>	16,873 13,014	67 30	2,458 1,422	908 493	1,550 929	5,002 3,451	4,355 3,572	3,268 2,950	1,508 1,377	204 205	11 7
Live births in higher-order multiple deliveries <sup>3</sup>											
All races 1	5,939	3	77	20	57	372	1,455	2,546	1,242	210	34
White, total	5,383	-	36	12	24	289	1,302	2,391	1,133	198	34
White, non-Hispanic	4,885	-	19	-	19	246	1,164	2,206	1,040	176	34
Black, total	439	3	37	8	29	80	128	107	72	12	-
Black, non-Hispanic Hispanic <sup>2</sup>	425 409	3	34 20	8 12	26 8	79 40	128 120	106 137	63 81	12 11	-
·					Ratio n	er 1,000 live	hirths				
All multiple births					ratio p	01 1,000 1110					
All races <sup>1</sup>	27.4	12.7	14.7	12.8	15.9	20.6	27.1	35.1	40.5	37.3	114.9
White, total	27.5	11.4	13.0	11.1	14.0	18.8	26.7	35.8	42.3	40.5	132.8
White, non-Hispanic	29.8	13.4	13.5	11.7	14.4	19.8	28.4	37.7	44.5	43.8	155.3
Black, total	29.8	13.7	19.5	16.8	21.6	28.8	34.5	37.1	36.8	27.6	*
Black, non-Hispanic Hispanic <sup>2</sup>	29.9 19.1	13.8 9.8	19.5 12.1	16.7 10.4	21.6 13.3	29.0 16.3	34.8 19.9	37.1 25.8	37.2 29.3	27.6 22.0	*
Twin births											
All races <sup>1</sup>	25.9	12.5	14.6	12.7	15.7	20.2	25.8	32.3	37.4	34.4	103.8
White, total	25.8	11.4	12.9	11.0	13.9	18.4	25.2	32.6	38.9	37.1	118.9
White, non-Hispanic	27.8	13.4	13.5	11.7	14.3	19.3	26.7	34.1	40.8	40.0	137.9
Black, total	29.1	13.1	19.2	16.6	21.2	28.4	33.6	35.9	35.2	26.1	*
Black, non-Hispanic Hispanic <sup>2</sup>	29.2 18.6	13.2 9.8	19.3 12.0	16.6 10.2	21.3 13.2	28.6 16.1	33.8 19.3	35.9 24.6	35.7 27.6	26.0 20.9	*
					Ratio pe	r 100,000 live	e births				
Higher-order multiple births <sup>3</sup>											
All races 1	152.6	*	15.7	10.8	18.6	39.4	135.8	283.5	310.9		1116.6
White, total	174.0	*	10.4	*	10.8	39.8	148.2	319.9	343.6	341.0	
White, non-Hispanic	207.1	*	*	*	*	48.4	170.3	358.0	379.0	372.8	1736.5
Black, total	73.8	*	28.3	*	38.9	44.6	96.1	113.5	164.7	*	*
Black, non-Hispanic Hispanic <sup>2</sup>	73.5 58.3	*	26.6 16.8	*	35.7	45.2 18.7	99.2 64.7	116.4 114.5	149.0 162.6	*	*

<sup>Quantity zero.
\* Figure does not meet standards of reliability or precision.
Includes races other than white and black and origin not stated.
2 Persons of Hispanic origin may be of any race.
3 Births in greater than twin deliveries.</sup> 

# **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 non-Hispanic white women.

Items asking for the Hispanic origin of the mother and the father have been included on the birth certificates of all States and the District of Columbia, the Virgin Islands, and Guam since 1993. 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]

	Number	Place	Attondant	Mother's	Eather's	Eather's	Hispani	ic origin	Educational	Live- birth	Longth of	Month	Number of
Area	of births	Place of birth	Attendant at birth	birth- place	Father's age	Father's race	Mother	Father	attainment Mother	order	Length of Gestation	prenatal care began	prenatal visits
Total of reporting areas <sup>1</sup>	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	<sup>2</sup> 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	_	0.0	1.4	51.6	57.7	1.0	51.3	7.5	1.3	0.6	16.2	15.7
	189.392	0.0	_	0.1	18.5	18.6	0.1	20.4	0.4	0.1	0.0	1.1	1.8
Florida	,												
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	<del>-</del>	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	0.0	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	0.0	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	0.0	26.1	25.8	0.3	25.9	0.2	0.3	0.2	0.6	0.6
• •	,		-			20.8			0.9		0.2		2.8
Missouri	73,832	0.0		0.2	18.7		0.1	20.8		0.3		1.9	
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
Ohio	151.692	0.0	0.0	0.3	12.9	13.7	0.2	11.0	0.4	0.0	0.0	1.0	1.6
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	0.0	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
	51.117	0.0	0.0	0.2	29.0	28.9	0.1	28.9		0.1	0.2	1.2	1.2
South Carolina	- ,	0.0	0.0						4.1				
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

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]

		Number Place		Mother's	Father's	Father's	Hispani	Hispanic origin		Live-		Month f prenatal	Number of prenatal
Area	Number of births	of birth	Attendant at birth	birth- place	Father's age	Father's race	Mother	Father	attainment Mother	birth order	Length of Gestation	prenatal care began	visits
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 <sup>1</sup>	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	<sup>3</sup> 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	<sup>7</sup> 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		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	<sup>4</sup> .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	<sup>8</sup> 7.0	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	<sup>9</sup> 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	<sup>5</sup> 5.2	0.9	11.3	1.2	1.4	0.5	<sup>10</sup> 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		<sup>6</sup> 1.8	0.3	0.3	20.1	0.1	<sup>11</sup> 0.1	0.6	<sup>8</sup> 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

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	8.0	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	<sup>12</sup> 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

<sup>0.0</sup> Quantity more than zero but less than 0.05.

Quantity zero.

<sup>- - -</sup> Data not available.

<sup>&</sup>lt;sup>1</sup>Excludes data for Puerto Rico, Virgin Islands, and Guam.

<sup>&</sup>lt;sup>2</sup> California reports date last normal menses began but does not report clinical estimate of gestation.

<sup>&</sup>lt;sup>3</sup>Alabama does not report renal disease.

<sup>&</sup>lt;sup>4</sup>Kansas does not report Rh sensitization.

<sup>&</sup>lt;sup>5</sup>New York city (but not New York State) reports tobacco use.

<sup>&</sup>lt;sup>6</sup>Texas does not report genital herpes and uterine bleeding.

<sup>&</sup>lt;sup>7</sup>Delaware does not report ultrasound.

<sup>&</sup>lt;sup>8</sup>Massachusetts, Nebraska, and Texas do not report birth injury.

<sup>&</sup>lt;sup>9</sup>New Jersey does not report other excessive bleeding.

<sup>&</sup>lt;sup>10</sup>New York City does not report assisted ventilation less than 30 minutes or assisted ventilation of 30 minutes or more.

<sup>&</sup>lt;sup>11</sup>Texas does not report anesthetic complications and fetal distress.

<sup>&</sup>lt;sup>12</sup>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 lb 1 oz or less 500–999 grams = 1 lb 2 oz–2 lb 3 oz 1,000–1,499 grams = 2 lb 4 oz–3 lb 4 oz 1,500–1,999 grams = 3 lb 5 oz–4 lb 6 oz 2,000–2,499 grams = 4 lb 7 oz–5 lb 8 oz 2,500–2,999 grams = 5 lb 9 oz–6 lb 9 oz 3,000–3,499 grams = 6 lb 10 oz–7 lb 11 oz 3,500–3,999 grams = 7 lb 12 oz–8 lb 13 oz 4,000–4,499 grams = 8 lb 14 oz–9 lb 14 oz 4,500–4,999 grams = 9 lb 15 oz–11 lb 0 oz 5,000 grams or more = 11 lb 1 oz or more

### Method of delivery

Several rates are computed for method of delivery. The overall cesarean section rate or total cesarean rate is computed as the percent of all births that were delivered by cesarean section. The primary cesarean rate is a measure 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  $N+2\sqrt{N}$ 

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

Age	All races	White	Black	American Indian	Asian or Pacific Islander
Total population	265,283,783	219,748,786	33,503,435	2,288,119	9,743,443
Female population					
15–44 years	59,605,680	48,120,469	8,417,957	551,329	2,515,925
10–14 years	9,254,087	7,333,823	1,429,905	116,875	373,484
15–19 years	9,043,011	7,160,695	1,429,238	104,571	348,507
15–17 years	5,487,920	4,338,419	866,386	66,612	216,503
18–19 years	3,555,091	2,822,276	562,852	37,959	132,004
20–24 years	8,561,003	6,776,483	1,311,468	90,650	382,402
25–29 years	9,468,735	7,565,285	1,356,975	89,812	456,663
30–34 years	10,708,232	8,665,054	1,490,099	92,056	461,023
35–39 years	11,318,443	9,274,835	1,503,357	91,513	448,738
40–44 years	10,506,256	8,678,117	1,326,820	82,727	418,592
45–49 years	9,375,827	7,867,198	1,084,574	67,222	356,833

SOURCE: 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.

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]

			Hispanic				Non-Hispanic	
Age	Total	Mexican	Puerto Rican	Cuban	Other Hispanic <sup>1</sup>	Total <sup>2</sup>	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

<sup>&</sup>lt;sup>1</sup>Includes Central and South American and other and unknown Hispanic.

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

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

If the rate  $R_1$  corresponding to  $N_1$  events is compared to the rate  $R_2$  corresponding to  $N_2$  events, the difference between the two rates may be regarded as statistically significant if it exceeds

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

For example, the proportion of mothers receiving first trimester care for area A for 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).

<sup>&</sup>lt;sup>2</sup>Includes races other than white and black.

#### **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 g/dL during pregnancy or a hematocrit of less than 30 percent during pregnancy.

Cardiac disease—Disease of the heart.

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

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

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

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

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

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

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

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

38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply)	40. COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)	43. CONGENITAL ANOMALIES OF CHILD (Check all that apply)
Anemia (Hct. < 30/Hgb. < 10)	Febrile ( > 100 °F. or 38 °C.)	Anencephalus
Genital herpes	Abruptio placenta	Microcephalus
Hemoglobinopathy       07 □         Hypertension, chronic       08 □         Hypertension, pregnancy-associated       09 □	Seizures during labor         07 □           Precipitous labor (<3 hours)	Heart malformations
Eclampsia       10 □         Incompetent cervix       11 □         Previous infant 4000 + grams       12 □	Dysfunctional labor         10 □           Breech/Malpresentation         11 □           Cephalopelvic disproportion         12 □	(Specify)07  Rectal atresia/stenosis
Previous preterm or small-for-gestational-age infant	Cord prolapse	Tracheo-esophageal fistula/ Esophageal atresia
Rh sensitization	Fetal distress       15 □         None       00 □         Other       16 □	(Specify)11
None	(Specify) 41. METHOD OF DELIVERY (Check all that apply)	Malformed genitalia
38b. OTHER RISK FACTORS FOR THIS PREGNANCY (Complete all items)	Vaginal	(Specify)14  Cleft lip/palate
Tobacco use during pregnancy Yes □ No □  Average number cigarettes per day  Alcohol use during pregnancy Yes □ No □	Primary C-section         03 □           Repeat C-section         04 □           Forceps         05 □	Polydactyly/Syndactyly/Adactyly 16 Club foot 17 Diaphragmatic hernia 18
Average number drinks per week lbs.	Vacuum	Other musculoskeletal/integumental anomalies (Specify)19
39. OBSTETRIC PROCEDURES (Check all that apply)	(Check all that apply)  Anemia (Hct. <39/Hgb. <13)	Down's syndrome
Amniocentesis 01 □ Electronic fetal monitoring 02 □ Induction of labor 03 □ Stimulation of labor 04 □	Fetal alcohol syndrome     03 □       Hyaline membrane disease/RDS     04 □       Meconium aspiration syndrome     05 □	None
Stimulation of labor   04	Assisted ventilation < 30 min	і Бресіту)
Other 07	None	

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 g/dL or a hematocrit of less than 39 percent.

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

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

Hyaline membrane disease/RDS—A disorder primarily of prematurity, manifested clinically by respiratory distress

and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth.

Meconium aspiration syndrome— Aspiration of meconium by the fetus or newborn, affecting the lower respiratory system.

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

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

Seizures—A seizure of any etiology.

#### Congenital anomalies of child

*Anencephalus*—Absence of the cerebral hemispheres.

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

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

*Microcephalus*—A significantly small head.

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

*Heart malformations*—Congenital anomalies of the heart.

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

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

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

Omphalocele/gastroschisis—An omphalocele is a protrusion of variable

amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

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

*Malformed genitalia*—Congenital anomalies of the reproductive organs.

*Renal agenesis*—One or both kidneys are completely absent.

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

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

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

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

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

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

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

Other chromosomal anomalies—All other chromosomal aberrations.

## Related reports

Many of the topics discussed in this report are covered in more analytic detail in other reports published by NCHS. Topics of reports published in the past 5 years include Hispanic origin births (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.

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