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Births: Final Data for 2001

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National Vital

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Abstract

Objectives-This report presents 2001 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 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 characteristics (period of gestation, birthweight, Apgar score, abnormal conditions, congenital anomalies, and multiple births). Also presented are birth and fertility rates by age, live-birth order, race, Hispanic origin, and marital status. Selected data by mother's State of residence are shown, as well as data on month and day of birth, sex ratio, and age of father. Trends in fertility patterns and maternal and infant characteristics are described and interpreted.

Methods-Descriptive tabulations of data reported on the birth certificates of the 4.026 million births that occurred in 2001 are presented. Denominators for population-based rates are derived from the 1990 U.S. census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin.

Results—The number of births, the birth rate, fertility rate, and total fertility rates all declined 1 percent in 2001. The teenage birth rate reached another historic low. Birth rates for women in their twenties declined slightly, whereas rates for women aged 30 to 44 years continued to rise. Births to unmarried women changed very little. Smoking by pregnant women was down again. Women were more likely to begin care in the first trimester of pregnancy (83.4 percent). The cesarean delivery rate rose for the fifth consecutive year to 24.4 percent; the primary cesarean rate was up 5 percent and the rate of vaginal births after a previous cesarean fell 20 percent. Preterm and low birthweight levels both rose for 2001. The twin birth rate continued to climb, and, following 2 years of decline, the rate of triplet/+ births also increased.

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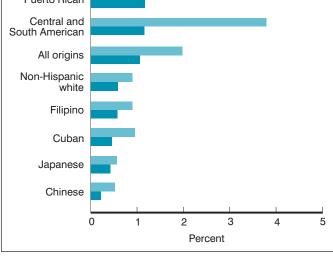
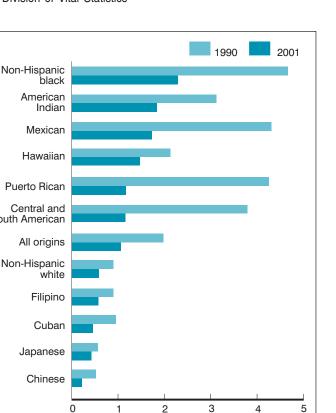


Figure 1. Percent of women with no prenatal care: United States, 1990 and 2001

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





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This report is dedicated to Ronald F. Chamblee, M.S. 1947–2002



Ronald F. Chamblee was Chief of the Division of Vital Statistics' Data Acquisition and Evaluation Branch for 18 years. In that role he managed the receipt of vital statistics data from the States and worked with State vital statistics offices to improve the quality and timeliness of natality and mortality data. The early release of this report would not have been possible without his efforts. His perception and advice will be greatly missed by his colleagues and friends at NCHS and in the States.

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Highlights

- There were 4,025,933 births in the U.S. in 2001, 1 percent fewer than the previous year. This marks the first decline in the number of births following 3 consecutive years of increases. Births to non-Hispanic white and black mothers were down, but the number of births to Hispanic women rose 4 percent.
- The birth rate declined from 14.7 to 14.5 per 1,000 total population, matching the record lows reported for 1997 and 1999. The general fertility rate also declined 1 percent to 66.9 births per 1,000 women aged 15–44 years. Fertility rates were down for most racial and Hispanic origin subgroups in 2001. Rates dropped 1–3 percent for American Indian, non-Hispanic white, Asian or Pacific Islander (API), and non-Hispanic black women, and rose 2 percent for Hispanic women.
- The U.S. total fertility rate (TFR) was down slightly for 2001 to 2,114.5. The TFR estimates the number of births that a cohort of 1,000 women would have if they experienced throughout their childbearing years the same age-specific birth rates observed in a given year. TFR declined for most race/ethnic groups for 2001, but increased among Hispanics.
- The **birth rate for teenagers** reached another historic low in 2001, dropping to 45.8 births per 1,000 women aged 15–19 years. The rate has declined 26 percent since 1991 (62.1). Birth rates have fallen for all teenage subgroups. The rate for the youngest teenagers, 10–14 years, declined to 0.8 per 1,000. Rates for teenagers 15–17 and 18–19 years attained record lows for the Nation; the rate for ages 15–17 was 25.2 per 1,000, 35 percent below the 1991 level and the rate for ages 18–19 was 75.5, down 20 percent since 1991. All population groups have recorded declines since 1991, with the rate for young black teenagers 15–17 years falling most steeply, by 46 percent, to its lowest point ever. Teenage pregnancy rates declined as well during the 1990s, reflecting reductions in teen birth and abortion rates.
- Birth rates for women in their twenties declined in 2001. The rate for women aged 20–24 years dropped 2 percent to 109.9 per 1,000; the rate for 25–29-year-olds was down very slightly to 121.3. The birth rate for women 30–34 years rose 1 percent to 95.2 and that for women 35–39 years 2 percent to 41.3 per 1,000;

rates for these age groups have risen 20 and 30 percent, respectively, over the last decade. The **birth rate for women 40–44 years** increased to 8.1 per 1,000, matching the previous high in 1970.

- The first birth rate declined in 2001 to 26.6 births per 1,000 women aged 15–44 years.
- The tendency of women to postpone childbearing continued; the median age at first birth rose from 24.6 to 24.8 years, and has risen from 22.1 years since 1970.
- Childbearing by unmarried women changed very little in 2001. The birth rate declined slightly to 45.0 births per 1,000 unmarried women aged 15–44 years. The number of births rose less than 1 percent to 1,349,249, the highest number ever reported, while the percent of births that were to unmarried women increased from 33.2 to 33.5 percent. Births and birth rates for unmarried teenagers continued to decline in 2001.
- Cigarette smoking during pregnancy continued to fall in 2001, to 12.0 percent overall, a drop of 38 percent from 1989. As in previous years, women in age groups 18–24 years were most likely to smoke during pregnancy. Smoking rates declined in 2001 for teenagers and for women in age groups 25–54 years; a small increase was reported for women aged 20–24 years. Maternal smoking is a major risk factor for reduced infant birthweight; 11.9 percent of births to smokers were low birthweight compared with 7.3 percent for nonsmokers.
- Women were more likely to have timely prenatal care in 2001; 83.4 percent began care in the first trimester of pregnancy in 2001 compared with 83.2 percent in 2000. Timely care has risen 10 percent since 1990. The percent of women with no prenatal care declined to 1.1 percent between 2000 and 2001, down from 2.0 percent since 1990. Strong gains in prenatal care utilization between 1990 and 2001 are seen for all racial/ethnic groups, but are particularly marked for non-Hispanic black (no care dropped from 4.7 to 2.3 percent) and Hispanic women (from 4.0 to 1.6 percent). See figure 1.
- The rate of cesarean delivery rose for the fifth consecutive year, to 24.4 percent for 2001. The 2001 rate is the highest since these data became available from birth certificates (1989). The primary cesarean rate rose 5 percent and the rate of vaginal births after previous cesarean delivery (VBAC) fell steeply, by 20 percent. Increases in the total cesarean rate were observed for each State and reporting area.
- The rate of induction of labor increased again for 2001 to 20.5 percent, or more than 1 out of every 5 births. The proportion of births which are induced has more than doubled since 1989.
- The percent of infants born preterm, or at less than 37 completed weeks of gestation, increased to 11.9 for 2001, the highest level in at least two decades. The preterm birth rate has risen 27 percent since 1981. Preterm rates rose for each of the three largest racial/ethnic groups.
- The low birthweight rate (less than 2,500 grams) increased slightly, from 7.6 to 7.7 percent from 2000 to 2001. Influenced in part by the increased rate of multiple births, low birthweight (LBW) has climbed 13 percent since the mid-1980s. The rate of very low

birthweight (VLBW) (less than1,500 grams) was 1.44 percent for 2001, essentially unchanged from 2000 (1.45 percent), but up from 1.16 percent in 1981.

• The **twin birth rate** rose 3 percent to 30.1 per 1,000 in 2001, marking the first year in which the proportion of all births which are twins exceeded 3 percent. The twinning rate has risen 33 percent since 1990, and 59 percent since 1980. Following a 2-year decline, the rate of **triplet and other higher order multiple births** (triplet/+) rose 3 percent to 185.6 per 100,000, but remained lower than the 1998 peak. The triplet/+ birth rate has climbed more than 400 percent since 1980.

Introduction

This report presents detailed data on numbers and characteristics of births in 2001, birth and fertility rates, maternal lifestyle and health characteristics, medical services utilization by pregnant women, and infant health characteristics. These data provide important information on fertility patterns among American women by such characteristics as age, live-birth order, race, Hispanic origin, marital status, and educational attainment. Up-to-date information on these fertility patterns is critical to understanding population growth and change in this country and in individual States. Data on maternal characteristics such as weight gain, tobacco and alcohol use, and medical risk factors are useful in accounting for differences in birth outcomes. Information on use of prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth and place of delivery, and method of delivery by maternal demographic characteristics can also help to explain differences in birth outcomes. It is very important that data on birth outcomes, especially levels of low birthweight and preterm birth, be continuously monitored, because these variables are important predictors of infant mortality and morbidity.

A report of preliminary birth statistics for 2001 presented data on selected topics based on a substantial sample (96.4 percent) of the 2001 birth file (1). Findings for the selected measures (age, race, Hispanic origin, and marital status of mother, live-birth order, prenatal care, cesarean delivery, and low birthweight) based on the preliminary data are very similar to those presented here based on final data.

In addition to the tabulations included in this report, more detailed analysis is possible by using the Natality public use data tape which is issued for each year. Birth data are also available in CD-ROM format beginning with the 1968 data year, and a selection of tables of detailed data are available on the NCHS homepage at http://www.cdc.gov/ nchs/datawh/statab/unpubd/natality/natab99.htm (2,3).

The U.S. and State-level birth and fertility rates in this report are based on population estimates projected from the 1990 census because detailed populations based on the 2000 census were not available when this report was prepared. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin. See the Methods section and the Technical Notes. Comparison between rates for the current year and for 2000, which also uses population denominators based on the 1990 census, should be affected only marginally when more accurate denominators from the 2000 census are used. Comparisons with rates in the early 1990s will be more affected. Revised estimates based on the 2000 census will be presented in a forthcoming report planned for early 2003.

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 (4). Tables showing data by State also provide separate information for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas. However, 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. Text references to black births and black mothers or white births and white mothers are used interchangeably for ease in writing.

Race and Hispanic origin are reported independently on the birth certificate. In tabulations of birth data by race and Hispanic origin, data for Hispanic persons are not further classified by race because the majority of women of Hispanic origin are reported as white. Most tables in this report show data for these categories: white, total; white non-Hispanic; black, total; black non-Hispanic; and Hispanic. Data for American Indian and Asian or Pacific Islander (API) births are not shown separately by Hispanic origin because the majority of these populations are non-Hispanic. Data are also presented for the following five Hispanic subgroups: Mexican, Puerto Rican, Cuban, Central and South American, and other and unknown Hispanic. Data are shown for five API subgroups: Chinese, Japanese, Hawaiian, Filipino, and "other" API. In addition, 11 States report data on API subgroups included in the "other API" category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API); see Technical Notes.

U.S. and State-level birth and fertility rates in this report are computed on the basis of population denominators provided by the U.S. Census Bureau. All population estimates are projected from the 1990 census because detailed populations from the 2000 census were not available when this report was prepared. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin. A comparison of summary 2000 census population results with the unpublished estimates for 2000 projected from the 1990 census indicates that the U.S. Hispanic population used for this report is 8 percent lower than the population based on the 2000 census (5-7). The underestimate for Hispanic women 15-44 years of age is 9.5 percent (compared with an underestimate of 2 percent for all women 15-44 years of age). Therefore, the Hispanic birth and fertility rates presented here are overstated because the population base is too small. Similar but less pronounced effects for other population groups are also likely; see Technical Notes. Revised estimates based on the 2000 census will be presented in a forthcoming report planned for early 2003. Birth rates for Hispanic subgroups for 2001, which are not included in this report, also will be included in the forthcoming publication. Rates by State shown in this report also may differ from rates computed on the basis of other population estimates.

Information on the measurement of marital status, gestational age, and birthweight; the computation of derived statistics and rates; population denominators; random variation and relative standard error; and the definitions of terms are presented in the Technical Notes.

Information on births by age, race, or marital status of mother is imputed if it is not reported on the birth certificate. These items were not reported for less than 1 percent of U.S. births in 2001. (See Technical Notes for additional information.) All other maternal and infant characteristics (except items on which length of gestation is calculated) are not imputed. Births for which a particular characteristic is unknown are subtracted from the figures for total births that are used as denominators before percents, percent distributions, and medians are computed. Thus, for example, the proportion of women receiving care in the first trimester of pregnancy is computed on the basis of births for which month prenatal care began was reported. Levels of nonreporting vary substantially by specific item and by State. Table I in the Technical Notes provides information on the percent of records with missing information for each item by State for 2001. Readers should note that the levels of incomplete or inaccurate reporting for some of the items are quite high in some States. Data for 2001 for the District of Columbia and Washington State are of particular concern.

Demographic Characteristics

Births and birth rates

Number of births

There were 4,025,933 births in the United States in 2001, 1 percent fewer births than in 2000 (4,058,814). This marks the first decline after 3 consecutive years of increase. The number of births fell 7 percent between 1990, the most recent high point in U.S. births, and 1997, the most recent low, but increased 3 percent between 1998 and 2000. Despite the decline in 2001, the number of births was still 4 percent greater than the number in 1997. (See tables 1–12 for national and State birth data by age, live-birth order, race, and Hispanic origin.)

Declines in the number of births were observed for most, but not all, **race and ethnic groups** in 2001 (**tables 1 and 6**). Births to non-Hispanic white and non-Hispanic black women fell 2 percent compared with a very slight rise for American Indian births. Overall Asian or Pacific Islander births declined very slightly; among the Asian or Pacific Islander (API) subgroups, changes ranged from an increase of 2 percent for "other" API, to a decrease of 8 percent for Chinese births. Births to Hispanic mothers rose 4 percent overall; however, increases were limited to Cuban, Mexican, and Central and South American mothers; births to Puerto Rican and "other" Hispanic mothers declined.

Crude birth rate

The crude birth rate declined to 14.5 live births per 1,000 total population in 2001 from 14.7 in 2000, returning to the record lows reported for 1997 and 1999. The birth rate has been comparatively low and stable since 1996. Between 1975 and 1990, the crude birth rate rose 14 percent (from 14.6 to 16.7), but then fell 13 percent between 1990 and 1997 (14.5).

Fertility rate

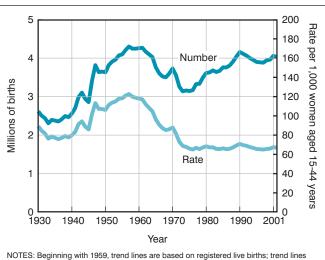
The general fertility rate, which relates births to the number of women in the childbearing ages, was 66.9 live births per 1,000 women aged 15–44 years in 2001, 1 percent lower than the rate in 2000 (67.5), and 6 percent lower than the most recent high (70.9 in 1990). Despite the drop in 2001, the rate was still 3 percent above that in 1997 (65.0), the most recent low (table 1 and figure 2).

Declines in the **fertility rate** were reported for most **race and Hispanic origin groups** between 2000 and 2001. Rates dropped 1 percent for American Indian women (70.8 per 1,000 for 2001), 2 percent for non-Hispanic white (57.6) and Asian or Pacific Islander (API) women (69.4), and 3 percent for non-Hispanic black women (71.6). The fertility rate for Hispanics increased 2 percent in 2001 (**tables 1 and 6**). (Birth and fertility rates for the API and Hispanic origin subgroups cannot be computed because the necessary populations are not available; see Technical Notes.)

Age of mother

Teenagers—Birth rates for teenagers declined again in 2001, reaching historic lows for the Nation. The **rate for the youngest teenagers** dropped to 0.8 births per 1,000 females aged 10–14 years, down from 0.9 in 1999 and 2000. The rate has declined fairly steadily since 1994 (1.4 per 1,000). The number of babies born to teenagers under age 15 fell to 7,781 in 2001 (**table 2**), the fewest recorded since 1965 (7,768). Recent declines in births to the youngest teenagers are due entirely to the drop in the birth rate; the number of female teenagers has increased steadily through the 1990s and 2000–2001 (7,8).

The **birth rate for teenagers 15–19 years** dropped 6 percent between 2000 and 2001, to 45.8 births per 1,000 teenagers. During the decade 1991–2001, the rate has fallen 26 percent, more than reversing the steep increases of the late 1980s (**tables A and 4**). In 2001, the number of babies born to women aged 15–19 years dropped 5 percent



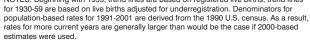


Figure 2. Live births and fertility rates: United States, 1930–2001

Table A. Birth rates for teenagers 15–19 years by age, race, and Hispanic origin of mother: United States, 1991, 2000 and 2001, and percent change, 1991–2001 and 2000–2001

[Rates are live births per 1,000 women in specified group]

		Non-H	ispanic	American	Asian or Pacific	
Year and age	Total ¹	White	Black	Indian ²	Islander ²	Hispanic ³
15-19 years						
2001	45.8 48.5 62.1	30.0 32.5 43.4	75.6 81.9 118.9	66.0 67.8 85.0	20.4 21.6 27.4	92.5 94.4 106.7
Percent change, 1991–2001 Percent change, 2000–2001	-26 -6	-31 -8	-36 -8	-22 -3	-26 -6	-13 -2
15-17 years	-0	-0	-0	-3	-0	-2
2001	25.2 27.4 38.7	14.1 15.8 23.6	47.2 52.0 86.7	36.7 39.6 52.7	10.2 11.5 16.1	57.0 60.0 70.6
Percent change, 1991–2001 Percent change, 2000–2001	-35 -8	-40 -11	-46 -9	-30 -7	-37 -11	-19 -5
18-19 years						
2001	75.5 79.2 94.4	52.9 56.8 70.5	116.8 125.1 163.1	111.9 113.1 134.3	35.6 37.0 43.1	143.5 143.6 158.5
Percent change, 1991–2001 Percent change,	-20	-25	-28	-17	-17	-9
2000–2001	-5	-7	-7	-1	-4	0

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

²Includes persons of Hispanic and non-Hispanic origin.

³Persons of Hispanic origin may be of any race.

⁴See reference 133 for information on reporting areas in 1991.

NOTES: Denominators for population-based rates are derived from the 1990 U.S. census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin.

to 445,944, falling in spite of continued increases in the number of female teenagers (7,8). Declines in teenage childbearing since the mid-1990s have been concentrated in the rate for first births while there has been little change in the proportion of teenage mothers who are going on to have subsequent births (9).

Teenage birth rates dropped for both younger and older teenagers. The **rate for ages 15–17 years** fell 8 percent to 25.2 per 1,000, whereas the **rate for older teenagers** dropped 5 percent to 75.5, both record lows. During the 1991–2001 period, these rates declined 35 percent for younger teenagers and 20 percent for older teenagers. The number of babies born to 15–17-year-olds dropped to 145,324, the lowest number in nearly half a century (145,122 in 1954). Births to older teenagers also declined steeply, to 300,620, fewer than in any year since 1987 (289,721).

Teenage birth rates differ considerably by race and Hispanic origin (tables 3, 4, 8, and 9). These disparities will be reduced but not eliminated after taking into account the considerable discontinuities in the population data on which these rates are based that occurred between the 1990 and 2000 censuses (described in the Methods section above). In 2001 rates are currently available for fewer

population subgroups compared with previous years: non-Hispanic white, non-Hispanic black, American Indian, Asian or Pacific Islander (API), and total Hispanic. Rates for Hispanic subgroups are expected to be published within a few months when the necessary population data become available. In 2001, as in previous years, Hispanic teenagers had the highest birth rate, 92.5 per 1,000, followed by non-Hispanic black (75.6), American Indian (66.0), non-Hispanic white (30.0), and API teenagers (20.4). The rates for all subgroups fell between 2000 and 2001, especially for non-Hispanic white and black teenagers, down 8 percent each. The birth rate for non-Hispanic black teenagers dropped 36 percent between 1991 and 2001.

Teenage pregnancy rates (based on the sum of live births, induced abortions, and fetal losses) have declined in recent years as well. The most recent year for which teenage *pregnancy* rates are available is 1997. The overall rate was 94.3 per 1,000 teenagers 15–19 years, down 19 percent from its 1991 peak, 116.5 (10,11). Recently published abortion data for 1998 and 2000 show a continued decline in abortions among teenagers (12,13). Along with the drop in the teenage birth rate, the decline in abortions suggests that the teenage pregnancy rate has fallen as well.

Several factors are believed to account for the downturn in teenage pregnancy and birth rates. The factors, discussed in recent reports, include continued reductions through the late 1990s and in 2000–2001 in the proportions of teenagers who are sexually experienced, coming on the heels of steady increases over the previous two decades (14–16). Since the early 1990s, a wide array of public and private initiatives have stressed the importance of preventing teenage pregnancy by abstinence and responsible behavior (17). Contraceptive use among teenagers has also increased, especially condoms, and some high-risk teenagers are using implants and injectables, which are effective hormonal contraceptives (15,18).

Women aged 20 years and over: Women in their twenties—The birth rate for women aged 20–24 years dropped 2 percent, from 112.3 in 2000 to 109.9 per 1,000 in 2001. The rate for this group fell 6 percent from 1990 (116.5) to 1995 (109.8), but rose 2 percent between 1997 (110.4) and 2000 (112.3) (figure 3, tables 3, 4, 8, and 9). The rate for women aged 25–29 years also declined in 2001 but only very slightly, from 121.4 in 2000 to 121.3 per 1,000 in 2001. The rate for this age group declined 7 percent (from 120.2 to 112.2) between 1990 and 1995 but increased 8 percent between 1995 and 2000. Compared with the rates for older women, birth rates for women in their twenties, the principal childbearing ages, have been relatively stable over the past 20 years, changing on average by less than 1 percent annually.

Women in their thirties—The rate for women aged 30–34 years increased 1 percent to 95.2 births per 1,000 in 2001, from 94.1 in 2000. The birth rate for women in this age group has increased steadily since 1991, by 20 percent (tables 4 and 9) (3,19). The rate of increase has slowed during the last decade to about 2 percent per year compared with the 3 percent annual increase for 1975–90. The number of births to women aged 30–34 years in 2001 (942,697) increased 1 percent from 2000, whereas the population of women in that age group was essentially unchanged (7).

The **birth rate for women aged 35–39 years** also rose in 2001 to 41.3, from 40.4 in 2000, a 2-percent increase. The rate for this age group has more than doubled since 1978 and has risen 30 percent since 1990. The pace of increase for this age group has slowed slightly

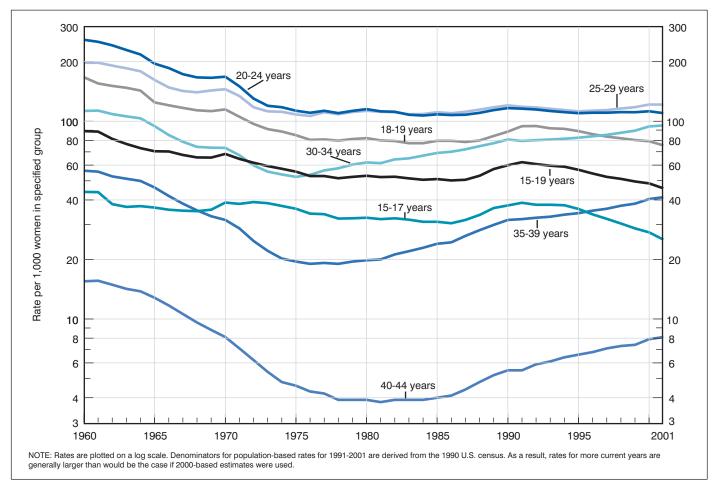


Figure 3. Birth rates by age of mother: United States, 1960–2001

over the last decade, to 2 percent annually, compared with 4 percent per year for 1978–90. The number of births to women aged 35–39 years in 2001 was 451,723, which represents 11 percent of all births. The number of births to this age group has risen 42 percent since 1990 (317,583), considerably more than the increase in the population of this age group (7,20,21). The proportion of births to women 35–39 years of age also generally has been increasing since 1977 (from 4 percent).

Women in their forties—The birth rate for women aged 40–44 years increased to 8.1 per 1,000 in 2001 from 7.9 births in 2000, the highest level reported since 1970. This rate has increased 47 percent since 1990 (5.5), and has more than doubled since 1981 (3.8), the most recent low. Women 40–44 years of age accounted for 2 percent of all births in 2001, compared with 1 percent of births in 1990, and less than 1 percent in 1981.

The **birth rate for women aged 45–49 years** was 0.5 births per 1,000 in 2001, unchanged from 2000, but has more than doubled since 1990. Between 2000 and 2001, the number of births to women in this age group rose 11 percent from 4,349 to 4,844, the highest number in three decades, and has tripled since 1990 (1,638). The increase over the decades reflects not only an increase in the number of women in this age group (who were born between 1952 and 1956), but also a greater likelihood to give birth.

Births to women aged 50 years and over—Data on births to women aged 50–54 years have recently become available again. From 1964 to 1996, age of mother was edited for ages under 10 years and 50 years or over (see Technical Notes). In 2001, 239 births occurred to women aged 50–54 years, a decline from the 255 births reported for 2000 (tables 2 and 7 for 2001 data), but considerably more than for 1997 to 1999 (144 and 174, respectively). Nevertheless, the number of births to women aged 50–54 years remains too small to compute an age-specific birth rate. In computing birth rates by age of mother, births to women aged 50–54 have been included with births to women aged 45–49; the denominator for the rate is women aged 45–49 years (see Technical Notes).

The increase in birth rates for women 35 years of age and over during the last 20 years (**table 4**) has been linked to several factors, including the availability and use of fertility-enhancing therapies (22). Among childless women aged 35–44 years reporting impaired fecundity, according to the National Survey of Family Growth, the proportion seeking fertility treatment rose considerably from 1982 to 1995 (14,23,24). In 2001, 1 out of 20 births to women aged 40–44 years, and 1 out of 5 births to women 45–54 years of age was a multiple delivery, an outcome associated with infertility therapy (see section on Multiple births).

Live-birth order

The first birth rate for women aged 15-44 years was 26.6 in 2001, 2 percent lower than the rate in 2000 (27.1) (table 5). The

second order birth rate also decreased slightly between 2000 and 2001, whereas rates for third, fifth, and all higher order births were unchanged. The rate for fourth order births increased by 2 percent.

The decline in the first birth rate for the current year was the result of declines in first birth rates to women under 30 years of age (see **table 3** for 2001 data). Declines in first births were particularly marked for mothers under 20 years of age. First birth rates for mothers 15–17 and 18–19 years of age declined by 8 and 4 percent, respectively, whereas, first birth rates for women aged 20–24 and 25–29 years declined 2 percent. Women under 30 years of age accounted for 75 percent of all first births in 2001, slightly lower than the proportion in 2000 (76 percent) and substantially lower than for 1975 (95 percent) (19). The first birth rates for women aged 30–34 years and 35–39 years were up 1 and 2 percent, respectively, in 2001; first birth rates for women 40 years of age and over remained constant.

Another useful measure for interpreting childbearing patterns is the **median age at first birth**. The median age is the middle value of the distribution of age at first birth. Arranged by age of mother, from the lowest to highest, half of the births would occur above and below the median age. The median age at first birth was 24.8 years in 2001 up from 24.6 years in 2000. The increase in 2001 while modest was consistent with that of recent years. The tendency of women to postpone childbearing, observed since the early 1970s, appears to continue (3). The median age at first birth has risen nearly 3 years since 1970, from 22.1 (data not shown) (3).

The **mean age at first birth** is another useful measure for describing age patterns in fertility. The mean is the sum of values for all observations divided by the total number of observations. The mean age of first-time mothers was 25.0 years in 2001, compared with 24.9 years in 2000. Since 1970, the mean age at first birth has increased 3.6 years. Increases in the mean age at birth were observed for most birth orders and for most racial and Hispanic origin groups (25).

Total fertility rate

The total fertility rate (TFR) in 2001 was 2,114.5 per 1,000 women, or 2.1 births per woman, just slightly lower than the rate in 2000 (2,130.0) (tables 4 and 9). The decrease in the TFR in 2001 is the result of declines in the age-specific birth rates for women under 30 years of age (see section above on Age of mother). TFRs for most race and ethnic groups fell 3 percent or less between 2000 and 2001. The TFR for Hispanic women, however, increased 2 percent.

The TFR summarizes the potential impact of current fertility patterns on completed family size. The TFR estimates the number of births that a hypothetical cohort of 1,000 women would have if they experienced throughout their childbearing years the same age-specific birth rates observed in a given year. The rate can be expressed as the average number of children that would be born per woman. Because it is computed from age-specific birth rates, the TFR is age-adjusted and can be readily compared for populations across time or among geographic areas.

As in the past, TFRs among the race and Hispanic origin groups differed considerably. The 2001 TFR was 1,853.0 for non-Hispanic white, 2,035.5 for Asian or Pacific Islander (API), and 2,074.5 for American Indian women. The TFRs for non-Hispanic black and Hispanic women were 2,190.5 and 3,165.0, respectively (tables 4, 9, 13, and 14). State-specific total fertility rates for 2001 are discussed in the next section.

The overall U.S. TFR for 2001 remained above the "replacement" rate (2,100) for the second year in a row. The "replacement" rate is considered the value at which a given generation can exactly replace itself.

Births and birth rates by State

Between 2000 and 2001, the **number of births** increased in 17 States, the Virgin Islands, and Northern Marianas, and decreased in 33 States, the District of Columbia, Puerto Rico, Guam, and American Samoa (**tables 10–12**). The change in the number of births ranged from a 4-percent decline in Alabama and Mississippi to a 2percent gain in Colorado. The only statistically significant increase was for Colorado; however, the number of births fell significantly in 16 States: Alabama, Arkansas, California, Indiana, Kansas, Kentucky, Louisiana, Maryland, Michigan, Mississippi, New York, North Carolina, Ohio, Pennsylvania, Tennessee, and Washington.

Crude birth rates by State for the current year ranged from 11 births per 1,000 total population (Maine, Vermont, and West Virginia) to 22 per 1,000 (Utah) (**table 10**). Birth rates declined significantly in 24 States, Puerto Rico, and Guam. Birth rates increased, but not significantly, in only 6 States and the Virgin Islands. Typical decreases in the birth rate were around 2 percent with some significant declines of more than 3 percent (Alabama, Delaware, Kentucky, Louisiana, and Mississippi).

Fertility rates per 1,000 women aged 15–44 years in 2001 ranged from a low of 48 (Vermont) to a high of 95 (Utah) (table 10). The fertility rate increased significantly only in Colorado (2 percent). Rates declined significantly in 13 States and Puerto Rico. Declines of around 1 percent were typical.

State-specific **TFRs** for 2001, which provide a summary measure of lifetime fertility, are shown in **table 10**. The total fertility rates by State for 2001 varied substantially from a high of 2,755.5 (or 2.8 births per woman) for Utah to a low of 1,547.0 (1.5 births per woman) for Vermont. Differences in the total fertility rates and changes between 2000 and 2001 by State are quite similar to those for the general fertility rate.

Birth rates for teenagers by State

Birth rates for teenagers also vary considerably by State (tables B and 10). In 2001, birth rates for teenagers 15–19 years ranged by State from 21.0 to 66.7 per 1,000. Rates were 25.0 per 1,000 or lower in Massachusetts, New Hampshire, and Vermont. Rates were 60.0 or higher in Arizona, Arkansas, the District of Columbia, Georgia, Mississippi, New Mexico, and Texas. Teenage birth rates in 2001 were lower than in 2000 in every State. The sustained declines in birth rates for U.S. teenagers since 1991 are found in all States; rates in 2001 were significantly lower than in 1991, with overall declines by State ranging from 13 to 42 percent (table B). A review of current trends and variations in teenage birth rates by State, by age, race, and Hispanic origin, is presented in a recent report (9).

Sex ratio

The relative number of births by sex is important because it contributes to future population change, and by extension, social and economic processes. In 2001, there were 2,057,922 male and 1,968,011 female live births, or 1,046 males for every 1,000 female

Table B. Birth rates for teenagers 15–19 years by State, 1991 and 2001, and percent change, 1991–2001: United States and each State and territory

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

State	1991	2001	Percent change, 1991–2001	State	1991	2001	Percent change, 1991–2001
United States ¹	62.1	45.8	-26.2	Nebraska	42.4	36.0	-15.1
				Nevada	75.3	56.4	-25.1
Alabama	73.9	57.8	-21.8	New Hampshire	33.3	21.0	-36.9
Alaska	65.4	37.7	-42.4	New Jersey	41.6	29.9	-28.1
Arizona	80.7	65.3	-19.1	New Mexico	79.8	64.5	-19.2
Arkansas	79.8	64.2	-19.5	New York	46.0	34.1	-25.9
California	74.7	45.2	-39.5	North Carolina	70.5	55.2	-21.7
Colorado	58.2	45.7	-21.5	North Dakota	35.6	27.2	-23.6
Connecticut	40.4	29.4	-27.2	Ohio	60.5	42.2	-30.2
Delaware	61.1	48.2	-21.1	Oklahoma	72.1	58.0	-19.6
District of Columbia	114.4	74.9	-34.5	Oregon	54.9	40.9	-25.5
Florida	68.8	49.3	-28.3	Pennsylvania	46.9	33.6	-28.4
Georgia	76.3	60.9	-20.2	Rhode Island	45.4	37.4	-17.6
Hawaii	58.7	42.5	-27.6	South Carolina	72.9	57.4	-21.3
Idaho	53.9	40.6	-24.7	South Dakota	47.5	37.1	-21.9
Illinois	64.8	47.3	-27.0	Tennessee	75.2	58.4	-22.3
Indiana	60.5	47.2	-22.0	Texas	78.9	68.5	-13.2
lowa	42.6	33.0	-22.5	Utah	48.2	38.2	-20.7
Kansas	55.4	43.0	-22.4	Vermont	39.2	23.9	-39.0
Kentucky	68.9	51.4	-25.4	Virginia	53.5	39.4	-26.4
Louisiana.	76.1	57.8	-24.0	Washington	53.7	34.9	-35.0
Maine	43.5	27.1	-37.7	West Virginia	57.8	45.5	-21.3
Maryland	54.3	38.2	-29.7	Wisconsin	43.7	33.4	-23.6
Massachusetts	37.8	25.0	-33.9	Wyoming	54.2	38.6	-28.8
Michigan	59.0	37.2	-36.9	, ,			
Minnesota	37.3	27.9	-25.2	Puerto Rico	72.4	68.0	-6.1
Mississippi	85.6	66.7	-22.1	Virgin Islands	77.9	51.5	-33.9
Missouri	64.5	46.1	-28.5	Guam.	95.7	70.5	-26.3
Montana	46.7	35.6	-23.8	American Samoa		38.9	
				Northern Marianas		56.8	

- - - Data not available.

¹Excludes data for the territories.

NOTES: Denominators for population-based rates are derived from the 1990 U.S. census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin.

births (tables 13 and 14). The 2001 sex ratio is comparable to past years (1,048 in 2000), and has changed very little over the past half century.

Similar to previous years, Asian or Pacific Islander (API) mothers, as a group, had the highest sex ratio (1,067). The sex ratios for individual API subgroups varied considerably, however, from a high of 1,092 for Chinese mothers to a comparatively low 1,000 (equal numbers of male and female births) for Hawaiian mothers. As in previous years, the sex ratio for all Hispanic mothers (1,038) was about midway between non-Hispanic white (1,051) and non-Hispanic black (1,032). Persistent differences in the sex ratio between groups may be due to environmental and/or maternal conditions (26–28).

Month of birth

The monthly average number of births in 2001 was 335,494. The actual number of births per month ranged from 303,534 (February) to 361,802 (August) (table 15). Historically, the number of births tends to peak during the summer months and is at its lowest during the winter. The observed birth rate, which takes into account the different number of days in the month, peaked in August and was at its lowest in December.

When compared with 2000, observed monthly birth rates in 2001 were lower for all but 2 months (January and April). The observed

monthly fertility rates were higher for 5 and lower for 7 months in 2001. When seasonal variation is filtered from the monthly birth and fertility rates, an estimate of the underlying trends is obtained. In 2001 adjusted birth rates declined for 9 months and adjusted fertility rates fell for 8 months ending 3 consecutive years where increases in the monthly fertility rate outnumbered decreases.

Day of the week of birth

The average number of births on any given day in 2001 was 11,030 (table 16). However, the number of births by day of the week varies considerably. In 2001 the average number of daily births ranged from a low of 7,637 on Sunday to a high of 12,496 on Tuesday.

Variation in the daily pattern of births can be measured with an index of occurrence. The index is defined as the ratio of the average number of births per day of the week to the average number of births per day of the year with the base set at 100. In 2001 the index for Tuesday was 113.3, indicating that there were 13.3 percent more births on Tuesday than on the average day. As in previous years, infants were less likely to be born on weekends. The index was lowest for Sunday (69.2), followed by Saturday (79.1). The overall index of occurrence for

Saturday and Sunday has declined 19 and 11 percent, respectively since 1982, indicative of a growing weekend birth "deficit" over this period (data not shown).

A deficit in weekend births is apparent for both vaginal and cesarean deliveries, but is notably larger for cesarean deliveries, particularly repeat cesareans. The Sunday index for vaginal births in 2001 was 75.4, compared with 61.0 for primary cesareans, and 34.1 for repeat cesareans. The weekend birth deficit for all cesarean births has increased noticeably since 1989, when these data first became available. For example, the Sunday index for all cesarean births was 50.7 in 2001 compared with 60.7 in 1989 (data not shown).

Births to unmarried women

Births to unmarried women changed very little for 2001. The **birth rate for unmarried women** declined slightly in 2001, to 45.0 births per 1,000 unmarried women aged 15–44 years (**tables C**, **17**, **and 18**). The rate was 4 percent lower than the historic peak reached in 1994, 46.9. The **number of births to unmarried women** rose less than 1 percent to 1,349,249, the highest number ever, entirely the result of the 1-percent increase in the number of unmarried women (29,30). The number of nonmarital births increased 16 percent since 1990, a far slower pace than during the 1980s, when the total number rose 75 percent and annual increases amounted to about 6 percent. The **percent of all births that were to unmarried women** rose to 33.5 percent in 2001, compared with 33.2 percent in 2000 and 28.0 percent in 1990.

In 2001 all States except for Michigan and New York reported the mother's marital status through a direct question on the birth certificate or in the electronic birth registration process. Michigan and New York

Table C. Number, rate, and percent of births to unmarried women, and birth rate for married women: United States, 1980 and 1985–2001

	Births to	unmarried	women	Birth rate for
Year	Number	Rate ¹	Percent ²	married women ³
2001	1,349,249	45.0	33.5	88.7
2000	1,347,043	45.2	33.2	89.3
1999	1,308,560	44.4	33.0	86.5
1998	1,293,567	44.3	32.8	85.7
1997	1,257,444	44.0	32.4	84.3
1996	1,260,306	44.8	32.4	83.7
1995	1,253,976	45.1	32.2	83.7
1994	1,289,592	46.9	32.6	83.8
1993	1,240,172	45.3	31.0	86.8
1992	1,224,876	45.2	30.1	89.0
1991	1,213,769	45.2	29.5	89.9
1990	1,165,384	43.8	28.0	93.2
1989	1,094,169	41.6	27.1	91.9
1988	1,005,299	38.5	25.7	90.8
1987	933,013	36.0	24.5	90.0
1986	878,477	34.2	23.4	90.7
1985	828,174	32.8	22.0	93.3
1980	665,747	29.4	18.4	97.0

¹Births to unmarried women per 1,000 unmarried women aged 15–44 years. ²Percent of all births to unmarried women.

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

NOTES: Denominators for population-based rates for 1991–2001 are derived from the 1990 U.S. census. As a result, rates for more current years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin.

infer the mother's marital status on the basis of other information on the birth certificate; see Technical Notes for details.

Birth rates for unmarried women vary considerably by race and Hispanic origin. The rate for Hispanic women was highest in 2001, 98.0 per 1,000, followed by the rate for black women, 70.1, and the rate for non-Hispanic white women, 27.7 (tables 17 and 18). The birth rate for non-Hispanic white women has changed very little since 1994 (28.5). The birth rate for black women in 2001 was a record low for the Nation, 27 percent below its historic peak three decades earlier (96.1 in 1971). (Data for black women are available since 1969 (3, 31).) The rate for Hispanic women had declined during 1994–98, and has since risen about 9 percent. The rate for unmarried Asian or Pacific Islander women is the lowest, 23.2 per 1,000 (data not shown).

Birth rates for unmarried women are consistently highest for women aged 20–24 years (73.8 per 1,000), followed by women aged 25–29 (63.7) and 18–19 years (60.1). Rates are successively lower for women in their early thirties, young teenagers, and women in age groups 35 and older (**tables 17 and 18**). Rates for black and Hispanic teenage women are fairly similar, but at ages 20 years and over, rates are considerably higher for Hispanic women.

Between 2000 and 2001, birth rates for unmarried women declined for women under age 25 years and increased for older women (**figure 4**). Since 1994, rates for unmarried teenagers have fallen 30 percent for ages 15–17 years and 14 percent for ages 18–19 years. The rate for black teenagers has fallen steadily since 1991, dropping 34 percent for ages 15–19, and by 43 percent for ages 15–17 years. From its 1994 peak to 2001, the rate for non-Hispanic white teenagers fell 19 percent. The 2001 rate for Hispanic teenagers was 13 percent lower than in 1994.

Birth rates for unmarried women in age groups 25–29 years and older all increased in 2001, by 2 to 4 percent for women aged 25–29

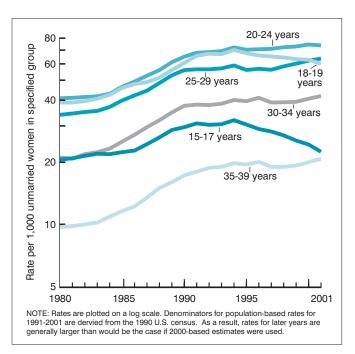


Figure 4. Birth rates for unmarried women, by age of mother: United States, 1980–2001

The proportions of all births that occurred to unmarried women changed little for population groups in 2001. The proportions were 22.5 percent for non-Hispanic white women, 68.6 percent for non-Hispanic black women, and 42.5 percent for Hispanic women (see tables 13, 14, 17, and 19 for 2001 data).

The modest increase in 2001 in the proportion of births to unmarried women reflects slight changes in births and birth rates for unmarried and married women. Births to unmarried women rose very slightly while the birth rate declined less than 1 percent; concurrently, births to married women and their birth rate each declined about 1 percent (table C). Overall, the percent of births to unmarried women has changed little since 1994, ranging from 32.2 to 33.5 percent.

The numbers and proportions of births to unmarried women by State by race and Hispanic origin for 2001 are shown in table 19. Numbers rose in 32 States and in the Virgin Islands and declined in 18 States and the District of Columbia, Puerto Rico, Guam, and American Samoa. The proportions increased in 40 States, Puerto Rico, the Virgin Islands, and Guam; declined in 6 States, the District of Columbia, and American Samoa; and were unchanged in 4 States.

Age of father

The **birth rate per 1,000 men aged 15–54 years** was 50.6 in 2001 (**table 20**), a decrease of 2 percent from 2000 (51.6). During the first half of the 1990s, the overall birth rate for men declined 11 percent, but since 1996, this rate has fluctuated little, hovering around 51. The relative stability in the overall birth rate belies variation in the age specific birth rates. In general, birth rates declined for men under 30 years of age, increased for men over 44 years of age. One of the more striking observations is the continued decline in the birth rate for teenage males, which fell another 7 percent between 2000 and 2001, to 18.7, continuing a 7-year downward trend from a peak of 25.0 in 1994. Birth rates for teenagers have been falling since the early 1990s (see section on Age of mother).

Information on age of father is often missing on birth certificates of children born to women less than 25 years of age and unmarried women as well (31). In 2001 the age of father was not reported for 13 percent of all births, 24 percent of births to women less than 25 years of age, and 38 percent of all nonmarital births. In computing birth rates by age of father, births where age of father is not stated were distributed in the same proportion as births where age of father is stated within each 5-year age interval of mother. This procedure avoids the distortion in rates that would result 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.

Educational attainment

Maternal education has long been considered an important factor in fertility and health. The educational attainment of women has been shown to have a profound effect on the number of births and the risk of adverse birth outcome. Women with higher educational attainment are more likely to desire and give birth to fewer children and to seek timely prenatal care, and are less likely to engage in behaviors detrimental to health and pregnancy.

In 2001, 78 percent of women who gave birth had 12 or more years of schooling (a high school education or equivalent), and 25 percent had 16 or more years of schooling (a college education or equivalent) (table 21). The educational attainment of women at birth (based on the completed years of education at birth) has increased substantially over the last few decades. The percentage of mothers with 12 or more years of schooling has risen 3 percent since 1990, and 13 percent since 1970; the percentage of mothers with 16 or more years of schooling has increased 44 percent since 1990 (17.5 percent), and nearly tripled since 1970 (8.6 percent). This trend reflects in part increases in educational attainment of all women during this time period (32,33).

The median educational attainment for all mothers in 2001 was 12.9 years, unchanged from the preceding year (data not shown), but up from 12.7 years in 1990, and 12.4 years of education in 1970. The increase in median educational attainment is more pronounced by age at first birth. Between 1990 and 2001, the median education of women aged 25–29, and 30–34 years rose by 1 year, from 14.2 to 15.2 years, and 15.3 to 16.3 years of education, respectively (data not shown). This pattern is consistent with the delayed childbearing observed for women with higher levels of educational attainment (34).

Differences in educational attainment are also evident by race and ethnicity. Among the Asian or Pacific Islander (API) subgroups, all were well above the national percent (78 percent) for at least a high school education in 2001, ranging from 85 percent for Hawaiian, to 98 percent for Japanese women (table 13). The percent of non-Hispanic white mothers having completed high school was 88, compared with 75 percent of non-Hispanic black; 69 percent of American Indian mothers were at this educational level (tables 13, 14, and 21). Overall 51 percent of Hispanic mothers had at least 12 years of schooling (table 14). Levels among the Hispanic subgroups ranged from 45 percent of Mexican mothers to 88 percent of Cuban mothers.

Differences by race and ethnicity were even more pronounced at higher educational levels. Among the API subgroups, 13 percent of Hawaiian mothers reported 16 or more years of education compared to 56 percent of Chinese mothers. The variation among the Hispanic subgroups was nearly as substantial; 31 percent of Cuban mothers reported at least a college education in 2001 compared with 5 percent of Mexican mothers (data not shown). The level of higher education for non-Hispanic black and American Indian women was 12 and 8 percent, respectively, whereas 33 percent of non-Hispanic white women giving birth in 2001 had at least 16 years of education.

Maternal Lifestyle and Health Characteristics

Weight gain

Maternal weight gain during pregnancy influences pregnancy outcome (35). Inadequate maternal weight gain has been associated with an increased risk of intrauterine growth retardation, shortened period of gestation, low birthweight, and perinatal mortality. High weight gain during pregnancy has been linked with an elevated risk of a large-for-gestational-age (LGA) infant, cesarean delivery, and long-term maternal weight retention (36–38). In 1990 the Institute of Medicine (IOM) published guidelines for weight gain during pregnancy for singleton gestations (39). Based on the mother's body mass index (BMI), the guidelines recommend that women who are underweight gain 28–40 pounds, those who are of normal weight gain 25–35 pounds, and those who are overweight gain 15–25 pounds. For extremely obese women, the IOM recommends a minimum weight gain of 15 pounds. However, it recommended that weight gain goals be tailored to individual needs (39). Studies suggest that weight gain within these guidelines is associated with the best outcomes; these studies also suggest, however, that a majority of maternal weight gain is outside of the recommended ranges (40,41).

BMI is calculated from a woman's prepregnancy weight and height, neither of which are available from the birth certificate, which only captures information on weight gained during pregnancy. Therefore, it is not possible from these data to determine whether the weight gain was within the recommendations for the mother's BMI. However, these data do allow us to estimate weight gain outside of the recommended ranges for women of any BMI.

Between 1989 (when data became available) and 2001, the percent of mothers who gained less than 16 pounds increased nearly 30 percent (from 9.4 to 12.1) and the percent who gained over 40 pounds rose by a similar amount (from 15.1 to 19.1) (tables 22, 24, 25). In short, in 2001, almost 1 in 3 women gained outside the IOM guidelines.

The rise in weight gains of over 40 pounds cannot be attributed to the sharp rise in the multiple birth rate (women with multifetal pregnancies tend to gain more weight than women with singleton pregnancies (39)); women with singleton gestation pregnancies have exhibited increases in excessive weight gain very comparable to trends for all women (from 14.6 to 18.5 percent between 1989 and 2001).

Weight gained during pregnancy differed widely by racial/ethnic groups. The percent of non-Hispanic black women with inadequate weight gains of under 16 pounds was 17.4 in 2001, two-thirds higher than the level for non-Hispanic white women (10.2). Among the Asian or Pacific Islander groups, Japanese women were most likely to gain under 16 pounds in 2001 (11.6 percent) and Chinese women were the least likely (6.9 percent). Wide differences in excessive weight gain of over 40 pounds were apparent among the API subgroups, ranging from a low of 8.5 percent for Japanese to a high of 27.4 percent for Hawaiian women. American Indian women had comparatively high rates of both inadequate and excessive weight gain (16.9 percent under 16 pounds; 19.6 percent over 40 pounds).

Among the Hispanic subgroups, Mexican mothers were twice as likely to gain less than 16 pounds as Cubans (16 compared with 8 percent). Conversely, excessive weight gain was much more common among Cuban (22.4 percent) than among Mexican mothers (13.4 percent).

Levels of both inadequate and excessive weight gain have increased since 1989 for almost all racial and Hispanic origin groups. Japanese women showed the most dramatic increase in inadequate weight gain; the proportion doubled between 1989 and 2001 (from 7.8 to 11.6 percent). Although a comparatively small proportion of Chinese women had excessive weight gain in 2001, the proportion has increased nearly 60 percent since 1989 (from 7.2 to 11.4).

Shortened gestational periods prevent optimal maternal weight gain; groups with the higher levels of inadequate weight gain also tend to have higher preterm rates (under 37 weeks gestation) (table 22). Non-Hispanic black and American Indian infants have high levels of inadequate weight gain as well as higher preterm rates compared with non-Hispanic whites. Weight gain discrepancies among these groups narrow as length of gestation increases.

Maternal weight gain also has been shown to have a positive correlation with infant birthweight (38,41). In 2001 as in previous years, the percent of low birthweight infants declined with increasing maternal weight gain through 36–40 pounds (from 13.7 to 5.3 percent) (table 23). A similar pattern generally can be observed for non-Hispanic white, non-Hispanic black, and Hispanic infants for each gestational age.

Medical risk factors

Medical risk factors during pregnancy can contribute to serious complications and maternal and infant morbidity and mortality, particularly if not treated properly (42–44). Sixteen medical risk factors that can affect pregnancy outcome are separately identified on the birth certificate (table 26). Medical risk factor data were missing from only 0.9 percent of records for 2001, a considerable improvement over previous years. However, birth certificate data may underreport or incorrectly report medical risk factor prevalence due to a lack of adherence to uniform definitions and difficulty in interpreting data from medical records (45). Rates for rarely occurring medical risk factors and for smaller population groups can vary from year to year and should be used with caution.

In 2001 the most frequently reported medical risk factors were pregnancy-associated hypertension (37.7 per 1,000 live births), diabetes (31.1) and anemia (25.0) (table 26). These have been the most frequently reported risk factors since these data have been available from birth certificates. Pregnancy-associated hypertension declined slightly in 2001 (from 38.8 in 2000) for the first time in a decade after having risen steadily since 1990 (from 27.2). Rates for diabetes and anemia have also risen about 40 percent over this time period. Pregnancy-associated hypertension, chronic hypertension, and eclampsia are all closely related hypertensive disorders, but the latter two are rarer conditions. The rate for chronic hypertension has increased since 1990 (6.5 in 1990; 8.1 in 2001), whereas the eclampsia rate has declined (4.0 in 1990; 3.2 in 2001).

The reported rate of hydramnios/oligohydramnios (the excess or shortage of amniotic fluid) has consistently increased during the 1990s, more than doubling between 1990 and 2001 (from 5.9 to 13.7). These conditions have been associated with maternal diabetes (35, 46). Acute or chronic lung disease (e.g., asthma, tuberculosis) also has risen dramatically. Although reported for only 1 percent of all women overall, the rate of lung disease has more than tripled between 1990 and 2001 (from 3.0 to 12.1 per 1,000) and has increased for all age groups, most notably for younger women. In the early 1990s, this condition was slightly more prevalent in older women. However, since 1992, the higher risk has shifted strongly toward younger women.

The incidence of medical risk factors during pregnancy can vary greatly by maternal race and ethnicity (**tables 27 and 28**). For 2001, American Indian women had the highest rates of three of the most prevalent maternal medical risk factors: pregnancy-associated hypertension, diabetes, and anemia (5 percent each). Chinese women had a similarly high level of diabetes (5 percent), but have low levels of pregnancy-associated hypertension and anemia. Differences are also found among the Hispanic subgroups. For instance, diabetes levels ranged from 2 percent for Cuban, to 4 percent for Puerto Rican mothers.

The risk of having a medical condition during pregnancy often differs by maternal age (table 26). For example, teenage mothers are nearly twice as likely to have anemia during pregnancy compared with women aged 40 and over (36.0 compared with 19.8 per 1,000). Older mothers, conversely, are more prone to chronic conditions such as diabetes (71.7 for mothers 40 years and over compared with 9.2 for mothers under 20); chronic hypertension (25.0 compared with 2.9); and cardiac disease (9.5 compared with 2.7). Some risk factors, however, such as pregnancy-associated hypertension, follow a U-shaped pattern, with the highest levels at the extremes of the maternal age distribution.

Tobacco use during pregnancy

Smoking during pregnancy declined in 2001 to 12.0 percent of women giving birth, down 38 percent from 1989 (19.5 percent) when this information first became available from the birth certificate (47, 48). Among smokers, 27 percent smoked half a pack (11 cigarettes) or more per day in 2001, down from 41 percent in 1989. Information on tobacco use was reported on the birth certificates of all States except for California in 2001. The reporting area of 49 States and the District of Columbia accounted for 87 percent of U.S. births in 2001. The number of States reporting tobacco use increased during the 1990s; information on the impact of these changes on the trends in prenatal smoking is provided in a recent report (48).

Maternal smoking is believed to be somewhat underreported on the birth certificate due to several factors, including the lack of a specific time reference for smoking status, variations in the source of the information for each birth, and the considerable stigma associated with tobacco use which may be intensified in cases of poor birth outcome (48–52). Nonetheless, the trends identified from birth certificate data are generally consistent with trends from several nationally representative surveys. In addition, data from other studies have confirmed the variations in smoking among population subgroups based on birth certificate data (14,53,54).

Tobacco use during pregnancy is one of the key preventable causes of a number of adverse pregnancy outcomes, including low birthweight, intrauterine growth retardation, miscarriage, and infant mortality, as well as negative consequences for child health and development (55,56). The costs associated with these adverse outcomes are substantial (57).

Smoking rates were highest for older teenagers, 18–19 years (19.0 percent), followed by women aged 20–24 years (17.0 percent); rates are lowest for the youngest teenagers and women in their thirties (tables 24, 25, and 29–32). Smoking rates declined in 2001 for teenagers and for women in age group 25–54 years. As in 2000, there was a small increase in 2001 for women aged 20–24 years.

Rates of smoking during pregnancy declined modestly in most racial and Hispanic origin groups. Substantial variations persist in smoking rates, with the highest rates reported for American Indian, non-Hispanic white, and Hawaiian women, and the lowest rates, for Chinese, Japanese, Mexican, Filipino, and Central and South American women (tables 24 and 25). Women born in the 50 States and the District of Columbia have substantially higher smoking rates than women born outside these areas, a pattern that has been noted elsewhere (58). Disparities in smoking rates are particularly large for teenage population subgroups. For example, among young teenagers 15–17 years, the proportion smoking ranged from 2 to 3 percent of Mexican and Central and South American teenagers to 29 percent of non-Hispanic white teenagers (**figure 5**). Details of smoking patterns and trends by age, race, and Hispanic origin, and by State are described in a recent report (48).

The likelihood that a woman will smoke during pregnancy is strongly associated with her educational attainment, with smoking rates for women who have attended but not completed high school about 12 times the rates of college educated women (table 31). Among women aged 20 years and older, overall, 28 percent with 9–11 years of education smoked during pregnancy, and 48 percent of non-Hispanic white women in this category were smokers (tabular data not shown).

Birth certificate data as well as data from other studies have consistently confirmed the negative impact of smoking on infant birthweight (55,56). In 2001 the rate of low birthweight among babies born to smokers was nearly two-thirds higher than that for nonsmokers, 11.9 percent compared with 7.3 percent, essentially unchanged from 2000. In general, the gap tends to widen with advancing maternal age, probably a consequence of the greater cigarette consumption of older compared with younger women (table 29). There is no "safe" level of smoking, even among births to the lightest smokers, that is one to five cigarettes daily, who account for nearly one-third of all smokers. The percent low birthweight for births to the lightest smokers was 11.3 percent in 2001, 55 percent higher than for nonsmokers (tabular data not shown).

Alcohol use during pregnancy

Alcohol use during pregnancy can severely jeopardize birth outcome, independent of other risk factors including tobacco use and other maternal risk factors (59,60). Questions on alcohol use were on the birth certificates of the District of Columbia and all States except California in 2001, accounting for 87 percent of U.S. births.

Maternal alcohol use continues to be substantially underreported on birth certificates compared with information collected in nationally representative surveys of pregnant women. In 2001 as in 2000, fewer

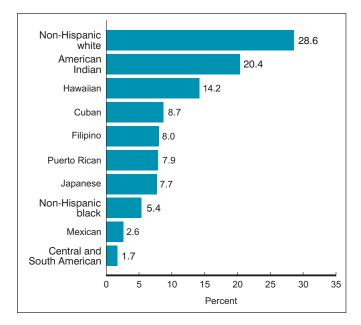


Figure 5. Percent of mothers 15–17 years who smoked during pregnancy by race and ethnicity, 2001

than 1 percent of women reported alcohol use during pregnancy—0.9 percent compared with 4.1 percent in 1989, the first year for which these data were reported on birth certificates (**data for 2001 shown in tables 24 and 25**). The most recent study of alcohol use during pregnancy from the Centers for Disease Control and Prevention's Behavioral Risk Factor Surveillance System (BRFSS) found a drinking rate of 12.8 percent in 1999 compared with 1.0 percent reported from birth certificate data for 1999 (61, 62). The BRFSS data suggested an overall decline in alcohol use during the late 1990s, but no change in rates of binge drinking (61).

While alcohol use, especially heavy use, is clearly a major risk factor for poor pregnancy outcome, it appears that the current birth certificate question on alcohol use is not sensitive enough to measure this behavior accurately. The current question has no time reference (alcohol use at any time during pregnancy) nor does it encourage the reporting of very light alcohol use (the question refers to the number of drinks per week). In addition, the stigma of maternal alcohol use likely contributes to the underreporting (61).

Medical Services Utilization

Prenatal care

The proportion of women who began prenatal care in the first trimester of pregnancy rose slightly for 2001 to 83.4 percent, compared with 83.2 percent for 2000. Timely initiation of prenatal care showed little improvement during the 1980s, but has risen fairly steadily since 1990 (from 75.8 percent). (See table D and tables 33–35.) The percent of women who began care in the third trimester of pregnancy or received no care at all, declined from 3.9 to 3.7 percent between 2000 and 2001, and has dropped from 6.1 percent in 1990. (The percent of women with no care at all was 1.1 for 2001, nearly half the level reported for 1990 (2.0 percent).) See

Table D. First trimester prenatal care by race and Hispanic origin of mother: United States, 1980, 1985, and 1990–2001

	A.II	Non-H	spanic	American	Asian or	
Year	All races ¹	White	Black	American Indian ²	Pacific Islander ²	Hispanic ³
2001	83.4	88.5	74.5	69.3	84.0	75.7
2000	83.2	88.5	74.3	69.3	84.0	74.4
1999	83.2	88.4	74.1	69.5	83.7	74.4
1998	82.8	87.9	73.3	68.8	83.1	74.3
1997	82.5	87.9	72.3	68.1	82.1	73.7
1996	81.9	87.4	71.5	67.7	81.2	72.2
1995	81.3	87.1	70.4	66.7	79.9	70.8
1994	80.2	86.5	68.3	65.2	79.7	68.9
1993	78.9	85.6	66.1	63.4	77.6	66.6
1992	77.7	84.9	64.0	62.1	76.6	64.2
1991	76.2	83.7	61.9	59.9	75.3	61.0
1990	75.8	83.3	60.7	57.9	75.1	60.2
1989	75.5	82.7	59.9	57.9	74.8	59.5
1985	76.2			57.5	74.1	
1980	76.3			55.8	73.7	

--- Data not available.

¹Includes races other than white and black and origin not stated. ²Includes persons of Hispanic and non-Hispanic origin.

³Includes all persons of Hispanic origin of any race.

figure 1. Recent studies suggest that the expansion of Medicaid for pregnant women in the late 1980s has contributed to the increase in prenatal care utilization observed for the 1990s (63). Although the effectiveness of prenatal care continues to be debated (64), appropriate prenatal care can enhance pregnancy outcome and long-term maternal health by managing preexisting and pregnancy-related medical conditions, providing health behavior advice, and assessing the risk of poor pregnancy outcome (65,66).

For the current year, first trimester care was unchanged among non-Hispanic white women at 88.5 percent, but continued to improve among non-Hispanic black (from 74.3 to 74.5 percent) and Hispanic mothers (74.4 to 75.7 percent). Large differences in timely initiation of prenatal care persist by race and Hispanic origin, but quite substantial gains have been observed for all groups in recent years. Improvement has been especially marked among groups which historically have tended to utilize care less. Since 1990 the percent of non-Hispanic black mothers with first trimester care has risen 23 percent (from 60.7 in 1990) and the proportion of black mothers who received no care at all dropped from 4.7 to 2.3 percent. Strong gains in prenatal care utilization have also been evident among Hispanic women. The proportion of Hispanic women with timely care rose 26 percent between 1990 and 2001 (from 60.2 percent in 1990) and no care fell from 4.0 to 1.6 percent.

The percent of American Indian women beginning care in the first 3 months of pregnancy was unchanged for 2001 at 69.3. Although this level has risen notably since 1990 (from 57.9 percent), American Indian women continue to be least likely of all racial/ethnic groups to receive first trimester prenatal care.

Among Asian or Pacific Islander (API) women, 90.1 percent of Japanese women initiated care in the first trimester of pregnancy compared with 79.1 percent of Hawaiian women. Although low in comparison with levels of most other API groups, the current level for Hawaiian women represents a 20 percent gain from that reported for 1990.

Mexican, Puerto Rican, and Central and South American mothers were about 25 percent more likely to receive timely prenatal care in 2001 compared with 1990. Large differences among the Hispanic subgroups are still evident however; in 2001, 91.8 percent of Cuban mothers received early care compared with 74.6 percent of Mexican mothers. See tables 24 and 25 for 2001 data.

Wide variation in prenatal care initiation can also be seen across the United States. The New England States (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont) and Iowa reported the highest proportions of mothers with first trimester prenatal care for 2001. At least 88 percent of women residing in these States began care in the first trimester of pregnancy (table 34). In contrast, 69 percent of New Mexico resident mothers accessed care early.

The Adequacy of Prenatal Care Utilization Index (APNCU) was developed to adjust for some of the weaknesses of the two previously used measures; trimester care began and the Kessner Index (an index used widely in the 1990s) (67). The APNCU takes into account the month that prenatal care began, the number of prenatal visits, and adjusts for gestational age (68) (table E). The APNCU includes categories for intensive, adequate, intermediate, and inadequate levels of prenatal care utilization. The "intensive" utilization category (the proportion of women for whom the number of prenatal care visits exceeds the American College of Obstetricians and Gynecologists' recommendations by a ratio of observed to expected visits of at least

	Intensive use	Adequate	Intermediate	Inadequate
2001	31.8	42.7	14.0	11.6
2000	31.2	43.0	14.0	11.9
1999	31.6	43.1	13.6	11.7
1998	31.0	43.3	13.8	11.9
1997	30.7	43.3	14.0	12.0
1996	29.3	43.6	14.7	12.4
1995	28.8	43.7	14.7	12.8
1990	24.6	42.3	15.7	17.4

NOTE: See reference 67 for information on calculation of this measure.

110 percent) rose from 31.2 to 31. 8 percent from 2000 to 2001; intensive utilization of care had risen substantially since the early 1980s (67). The percent of women with inadequate care was down slightly between 2000 and 2001 (from 11.9 to 11.6 percent). The APNCU shows a one-third decline in inadequate care since 1990.

Obstetric procedures

Six specific obstetric procedures are listed on the birth certificate. Of these, electronic fetal monitoring (EFM) was the most frequently reported in 2001, as in earlier years. Although the benefits and risks of routine use of EFM remain controversial (69) the rate has continually climbed since 1989, from 68.4 to 84.8 percent for 2001 (almost 3.4 million live births) (table 36). More than 67 percent of women who had live births in 2001 received ultrasound. The use of this procedure also has increased steadily since 1989 (47.7 percent). The use of EFM, ultrasound, and other obstetric procedures may be underreported on the birth certificate (70,71).

The rate of induction of labor continued to rise between 2000 and 2001 (from 19.9 to 20.5). The rate for 2001 was more than double the 1989 level of 9.0 percent. Between 1989 (the first year these data were reported on the birth certificate) and 2000, the rate of induction rose every year for all gestational ages, including preterm deliveries (less than 37 completed weeks of gestation). However, for 2001, the induction rate rose only for gestational ages of 37 weeks or more. (figure 6). This increase was seen for each major racial and ethnic group (data not shown).

Recent articles on the indications for induction suggest that the growth in the induction rate may be due, in part, to an increase in elective inductions (inductions with no medical or obstetric indication) (72,73). Since spontaneous labor (labor that occurs naturally) is associated with fewer complications than induced labor, elective induction is discouraged (35).

The rate of stimulation of labor was 17.5 percent; this rate has fluctuated only slightly since 1997. However, the 2001 rate is almost two-thirds higher than the 1989 level of 10.9 percent.

The overall rate for tocolysis, the use of agents that decrease uterine activity for the management of preterm labor, was 2.1 percent in 2001. The rate of tocolysis has been fairly stable since 1996. Assessment of the safety and efficacy of tocolytic agents is discussed in a recent report (74).

In 2001 the overall rate for amniocentesis decreased to 2.2 percent of births in 2001 from 2.4 percent in 2000, and has declined since 1989 (3.2 percent). This change may reflect the use of screening tests that are noninvasive (e.g., ultrasound and measurement of serum markers) in lieu of amniocentesis.

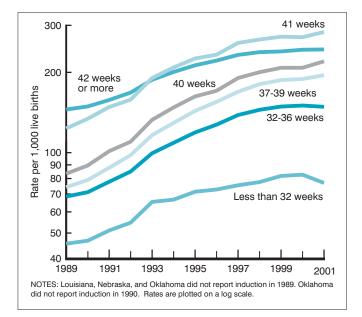


Figure 6. Rates of induction of labor by length of gestation in weeks: United States, 1989–2001

Complications of labor and/or delivery

Depending on the severity of the condition, certain complications of labor and delivery reported on the birth certificate may require medical interventions and may affect the health outcome of the infant. Many of the reported conditions are more common among low birthweight and/or preterm infants. Of the 15 complications of labor and/or delivery reported on the birth certificate, the 5 most frequently reported for 2001 were meconium moderate/heavy (51.5 per 1,000 live births), fetal distress (38.7), breech/malpresentation (38.3), dysfunctional labor (28.1), and premature rupture of membrane (PROM) (23.8) (table 37). Cord and placental complications are infrequent but are among the top 10 leading causes of infant death (75). Abruptio placenta occurred in almost 22,000 births (5.4 per 1,000); placenta previa occurred in more than 13,000 births (3.3 per 1,000); cord prolapse occurred in over 7,000 births (1.8 per 1,000).

Multiple complications of labor and delivery may be reported for a mother and different complications may be related. For example, causes of fetal distress include placenta abruptio and cord prolapse; cord prolapse is also associated with breech/malpresentation (46). Data on complications of pregnancy were missing from less than 1 percent of records for 2001, but birth certificate data may underreport prevalence of complications. (70,76–78).

Complication rates vary among racial/ethnic groups (tables 27 and 28). For example, rates were very divergent for meconium (69.6 per 1,000 for non-Hispanic black compared with 44.6 for non-Hispanic white). Conversely, non-Hispanic white women had substantially higher rates of cephalopelvic disproportion and breech/malpresentation (leading risk factors for cesarean delivery) compared with non-Hispanic black women. A wide range of values was also apparent among Asian or Pacific Islander (API) subgroups. Rates for meconium ranged from 48.1 per 1,000 for Japanese to 66.2 for Hawaiian.

Differences in rates also were evident among Hispanic subgroups. In 2001, rates for meconium ranged from a low of 36.3 for Cuban mothers to a high of 64.1 percent for Central and South American mothers.

Complication rates also can vary by age with risk steadily increasing with age for some conditions (table 37). For example, in 2001, only 1 in 1,000 teenage mothers had placenta previa compared to 9 in 1,000 for mothers 40 and older. In contrast, fetal distress exhibits a U-shaped distribution of risk with the highest rates for women under 20 and over 34 years of age.

Attendant at birth and place of delivery

In 2001 the trends in attendant at birth and place of delivery observed for recent years continued. The percent of all births delivered by **physicians in hospitals** continued to decline slowly but steadily, to 91.3 percent of all births (table 38) compared with 98.7 percent in 1975. Most physician-attended births were attended by doctors of medicine (MDs). However, the percent of all births attended by doctors of osteopathy (DOs) grew gradually to 4.3 percent by 2001, from 2.8 percent in 1989, the first year data on DOs were available from the birth certificate.

The percent of births **attended by midwives** has increased steadily since 1975, climbing from less than 1.0 percent (79) to 8.0 percent in 2001. Midwifery education and hence practice have grown over the past decade (80). A recent report found that nearly all of the increase in midwife-attended births was for those in hospitals (81). Almost 95 percent of all midwife-attended births in 2001 were by certified nurse midwives (CNMs). This level has been fairly stable since 1996. Due to misclassification of midwife-attended deliveries, these data should be considered lower estimates of the actual number of midwife-attended births (4,79).

Ninety-nine percent of births in 2001 were delivered in hospitals, essentially unchanged for the last several decades. The majority of out-of-hospital births were in a residence (65 percent); 28 percent were in a freestanding birthing center. These levels have been fairly stable since 1989. Controversy persists regarding the safety of planned home births (82).

About 92 percent of births to non-Hispanic white women and non-Hispanic black women were attended by a physician in a hospital compared with 90 percent of births to Hispanic women. In 2001 as in previous years, Hispanic women were more likely to have a midwifeattended hospital birth (9.3 percent) than were either non-Hispanic white or black women (6.8 and 7.3 percent, respectively).

Method of delivery

In 2001 nearly one in four live births were delivered by cesarean section. The **rate of cesarean delivery** climbed to 24.4 percent of all births, a 7 percent rise from 2000 (22.9 percent). This rate fell each year between 1989 and 1996, but has risen each year since 1996, by a total of 18 percent, and is now the highest reported since these data first became available from birth certificates (1989) (**table 39** and 40). This rise in the total rate is due to both the growth in the primary cesarean rate and a steep decrease in the rate of vaginal birth after cesarean delivery (VBAC) (**figure 7**).

The **primary cesarean rate** in 2001 (16.9 per 100 live births to women who had no previous cesarean) was 5 percent higher than in 2000 (16.1), and 16 percent higher than the low reported for 1996–97 (14.6). A comparable rise is observed for low-risk women (i.e., women with full-term, singleton deliveries, with vertex presentations) (data not shown) (83). The increase in primary cesarean deliveries may be

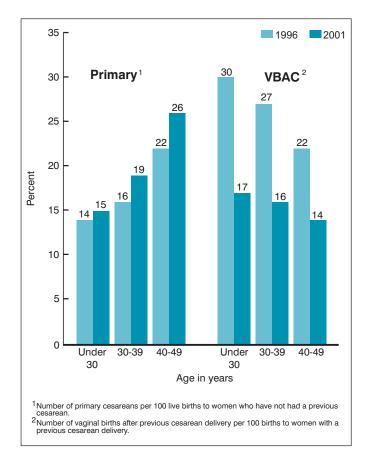


Figure 7. Primary cesarean rates and vaginal birth after cesarean (VBAC) rates by age of mother: United States, 1996 and 2001

related to nonmedical factors such as demographics, physician practice patterns, and maternal choice (84–86).

The rate of vaginal birth after previous cesarean delivery (VBAC) fell 20 percent between 2000 and 2001—from 20.6 per 100 women with a previous cesarean to 16.4. The VBAC rate declined precipitously between 1996 and 2001, by 42 percent, after increasing by 50 percent between 1989 and 1996 (from 18.9 to 28.3). The VBAC rate for low-risk women has fallen at a similar pace (data not shown). The sharp decline in VBAC deliveries may be related to recent reports on the risks associated with VBAC, more conservative practice guidelines, legal pressures (84,87–89), and the continuing controversy regarding the risks and benefits of vaginal birth versus cesarean section, especially with regard to VBAC (84–86).

The primary rate increased and the VBAC rate decreased for all age, racial and ethnic groups (including subgroups). As in previous years, overall cesarean rates rose steadily as maternal age increased; the rate for mothers 40–54 years of age (38.0) was more than twice that of mothers under age 20 (16.8) (table 40). The elevated risk of cesarean delivery in older women may be related to biologic factors, patient/practitioner concerns (90) and the increased rate of multiple births.

The primary cesarean rate rose 5 to 6 percent for non-Hispanic white, non-Hispanic black and Hispanic women between 2000 and 2001. The primary rate for non-Hispanic black women (18.3) continued to be higher than the rate for non-Hispanic white women (17.2) and

Hispanic women (15.2). The VBAC rate declined about 20 percent for each group. In 2001 the VBAC rate was similar for non-Hispanic white women (16.8) and non-Hispanic black women (16.7), and lower for Hispanic women (14.7). A detailed discussion of trends in cesarean and VBAC rates by race and Hispanic origin in the 1990s may be found in a recent report (91).

The overall cesarean rate for American Indian women in 2001 (21.6 percent) was lower than that for non-Hispanic white (24.5) and black mothers (25.9) (tables 24 and 25). Among the Hispanic subgroups, the rate of cesarean delivery ranged between 22.9 and 25.3, except for Cuban mothers whose rate was considerably greater (34.6), possibly due in part to their older age at childbearing. All API subgroups, except Filipino mothers (26.6), had lower rates of cesarean delivery than either non-Hispanic white or black mothers. Among the API subgroups, Japanese mothers had the lowest rate (20.1), despite having the highest percent of mothers 35 years of age and over.

From 2000 to 2001, overall cesarean rates increased for all 50 States and the District of Columbia. For 2001 as for earlier years, variation in cesarean rates by State was considerable, ranging from 17.2 percent for Utah, to 29.9 percent for Louisiana (table 41). The rate for Puerto Rico was 42.0.

Between 2000 and 2001, VBAC rates decreased in 49 States and the District of Columbia. For 2001, rates ranged from 8.2 in Louisiana, to 40.0 per 100 in Vermont.

Cesarean rates were higher than the national rate for most of the selected medical risk factors, and complications of labor and/or delivery in **table 42**. For example, more than half of mothers with eclampsia and almost all mothers with cephalopelvic disproportion (96.5 percent) had a cesarean section.

As might be anticipated, coinciding with the rise in the cesarean delivery rate, the percent of births delivered by either forceps or vacuum extraction decreased between 2000 and 2001, from 7.0 to 6.3 percent (data not shown). The 2001 rate is 34 percent lower than the high of 9.5 percent in 1994 (81).

Infant Health Characteristics

Period of gestation

The **preterm birth rate** rose to 11.9 percent for 2001, the highest level reported in at least 2 decades. The percent of births born preterm (at less than 37 completed weeks of gestation) has risen 12 percent since 1990 (from 10.6 percent), and 27 percent since 1981 (from 9.4 percent). The **very preterm birth rate** (less than 32 completed weeks of gestation) was 1.95 percent for 2001, compared with 1.93 percent for 2000. In contrast to the pronounced upward trend in preterm births overall, the proportion of very preterm infants is essentially unchanged from 1990 (1.92 percent), and only moderately higher than the 1981 level (1.81 percent). **(See tables F, 24, 25, 43, 44, and figure 8.)**

Although much progress has been made in recent years in lowering mortality among infants born too early, preterm newborns, especially those born at the shorter gestational ages, are at heightened risk of long-term disability and death. For 2000, 18 percent of very preterm infants died within the first year of life, compared with 1 percent of moderately preterm infants (32–36 weeks), and 0.03 percent of infants delivered at term (37–41 weeks) (75). Further, preterm newborns who

Table F. Rate of preterm birth among singletons by raceand Hispanic origin of mother, United States: 1990,1995, 2000, and 2001

	2001	2000	1995	1990 ¹
Total, all races, origins ²		Per	cent	
Less than 32 weeks	1.57 8.81 10.38	1.58 8.54 10.12	1.61 8.21 9.82	1.69 8.01 9.70
Non-Hispanic white				
Less than 32 weeks	1.15 7.83 8.98	1.14 7.55 8.69	1.13 6.99 8.12	1.11 6.43 7.54
Non-Hispanic black				
Less than 32 weeks	3.52 12.49 16.01	3.58 12.29 15.87	3.83 12.70 16.53	4.22 13.63 17.85
Hispanic ³				
Less than 32 weeks	1.45 9.04 10.49	1.48 8.82 10.30	1.48 8.64 10.12	1.52 8.77 10.29

¹Data by race and Hispanic origin exclude data for New Hampshire and Oklahoma, which did not require reporting of Hispanic origin of mother.

²Includes births to races not shown.

³Includes persons of Hispanic origin of any race.

do survive are more likely to be neurologically impaired than their term counterparts (92). Experts caution that meaningful reduction in preterm rates is unlikely until the causes of preterm delivery are better understood and effective prevention methods developed (92,93).

The upward trend in preterm births over the past 20 years, particularly for non-Hispanic whites, has been influenced in part by the rise in the multiple birth rate (preterm rates are much higher among multiple births than among singletons), and by the increase in preterm multiple deliveries (94). Between 1990 and 2001, the singleton very preterm birth rate declined from 1.69 to 1.57 percent (compared with an essentially stable very preterm rate for all births), and the rate of moderately preterm births (32–36 weeks) rose 10 percent for singletons (compared with a 15 percent increase for all pluralities). **See table F for singleton trend.**

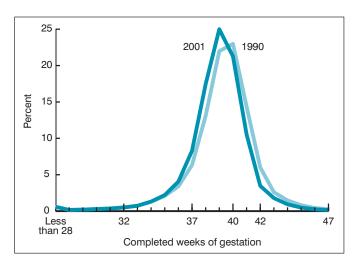


Figure 8. Percent of distribution of singleton births by gestational age: United States, 1990 and 2001

Preterm births were up quite sharply from 2000 to 2001 among non-Hispanic white mothers, from 10.4 to 10.8 percent. Since 1990 the non-Hispanic white preterm rate has climbed by more than 25 percent (from 8.5 percent). The very preterm rate has also risen, though to a lesser extent, from 1.33 to 1.55 percent over this period. A marked rise in preterm *singleton* non-Hispanic white births was also observed between 1990 and 2001 (from 7.5 to 9.0 percent), but this increase was largely limited to moderately preterm births (**see table F**).

The percent of black infants born preterm was up slightly for 2000–2001, from 17.3 to 17.5 percent. The preterm birth rate for black mothers is down from a peak of 18.9 percent in 1991, but is still slightly higher than levels reported for the early 1980s. The very preterm rate for black infants for 2001, 4.02 percent, is the lowest reported since 1981, the earliest year for which comparable data are available. Despite this progress, black mothers of all ages continue to be much more likely than mothers of other racial/ethnic groups to deliver before 32 weeks of gestation (data not shown).

Among Hispanic births, the preterm rate returned to the level reported for 1998–99, 11.4 percent. The proportion of preterm births to Hispanic mothers has been fairly stable since national data became available for this group in 1989. Among the Hispanic subgroups, preterm birth rates ranged from 10.6 percent for Cuban births to 13.7 percent for Puerto Rican births for 2001. (See table 25 for 2001 data.)

The 2001 preterm incidence for American Indians was 13.2 percent, compared with 12.7 percent for 2000. In 2001 as in previous years, Chinese and Japanese women were the least likely of any of the racial/Hispanic origin groups to deliver at less than 37 weeks of gestation (7.7 and 8.8 percent, respectively) (table 24).

For the current year, 6.9 percent of births were delivered postterm, or at 42 or more weeks of gestation. This represents more than a one-third decline from the level reported for 1990 (11.3 percent).

As would be expected, given the increase in preterm and decrease in post-term deliveries between 1990 and 2001, a marked shift in the gestational age distribution for all births (not shown), and for singletons can be observed for this period (table F). The average or mean singleton gestational age also has shortened somewhat (from 39.2 to 38.8 weeks). Numerous factors, including the wider use of medical procedures to induce labor, may be contributing to these changes (72,95).

Birthweight

The **low birthweight rate (LBW)** was 7.7 percent for 2001, up slightly from 7.6 percent for 2000 to the highest level recorded since the early 1970s. The proportion of LBW infants (weight at delivery of less than 2,500 grams or 5 and a half pounds) has climbed 13 percent since the mid 1980s (from 6.8 percent). (See tables 43–47 and figure 9.) The percent of very low birthweight (VLBW) infants (less than 1,500 grams or 3 and one fourth pounds) was 1.44 for 2001. This measure has been fairly stable since 1997, but has risen from 1.27 percent in 1990, and 1.16 percent in 1981. Although the risk of early death for infants born LBW has attenuated somewhat in recent years, the mortality rate for LBW infants (75), and LBW infants who survive, especially VLBW infants, are more likely to suffer long-term disabilities (96).

Although LBW has been on the rise for the Nation as a whole over the last decade, quite different trends are observed by race and

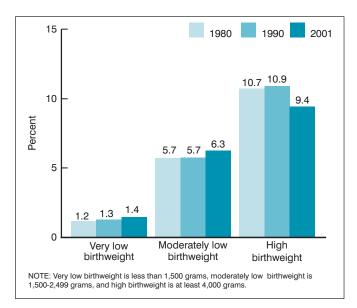


Figure 9. Percent very low, moderately low, and high birthweight births: United States, 1980, 1990, and 2001

Hispanic origin. Whereas a distinctly upward trend is evident for non-Hispanic white births, only a very modest rise is reported in Hispanic LBW, and among black infants, a slight decline in LBW is apparent.

The LBW rate among non-Hispanic white births rose from 6.6 to 6.8 percent between 2000 and 2001, and has climbed more than 20 percent since 1990 (from 5.6 percent). Some of this increase can be attributed to the steep rise in the rate of multiple births among this group (infants born in multiple deliveries are about 10 times as likely to be LBW as are singletons), and to a lesser extent, by an increase in LBW among multiples themselves (see the section on multiple births) (94,97).

The LBW rate for non-Hispanic white *singletons* was 4.96 percent for 2001, a small increase from 2000 (4.88 percent) (**table G**). Since 1990 singleton non-Hispanic white LBW has risen, but at a slower pace than LBW among all pluralities, from 4.56 percent, or by 9 percent. Most of this increase was among moderately low birthweight infants, that is, infants born at 1,500–2,499 grams (from 3.83 to 4.15 percent); VLBW among non-Hispanic white births changed only from 0.73 to 0.81 percent between 1990 and the current year. A recent study found that singletons conceived with assisted-reproductive technology, procedures which account for an increasing number of births (98–101), are at greater risk of LBW than those conceived spontaneously (102).

The 2001 LBW rate for births to non-Hispanic black mothers was 13.1 percent, unchanged from 2000. In contrast to trends for non-Hispanic white infants, LBW among non-Hispanic black infants has improved modestly from levels reported for the early 1990s (13.6 percent in 1991), and has been essentially stable since 1995. The percent of VLBW non-Hispanic black infants was 3.08 in 2001, about the same as that in 2000 (3.10 percent), but up somewhat from the level reported for 1990 (2.93 percent). When only singleton births are examined, the LBW rate among non-Hispanic black births has declined from 11.9 to 11.2 percent between 1990 and 2001, and the VLBW rate has been stable (2.57 percent in 2001) (table G). Despite the more positive trends, singleton infants born to black mothers continue to be more than twice as likely as non-Hispanic white or Hispanic infants to weigh less than 2,500 grams at birth.

Table G. Rate of very low birthweight and low birthweight, and mean birthweight among singletons by race and Hispanic origin of mother, United States: 1990, 1995, 2000, and 2001

	2001	2000	1995	1990 ¹
Total, all races, origins ²				
Percent very low birthweight Percent low birthweight Mean/Standard deviation ³	1.10 6.04 3,339(573)	1.11 6.00 3,348(577)	1.08 6.05 3,353(581)	1.05 5.90 3,365(583)
Non-Hispanic white				
Percent very low birthweight Percent low birthweight Mean/Standard deviation ³	0.81 4.96 3,399(557)	0.80 4.88 3,410(560)	0.78 4.87 3,416(563)	0.73 4.56 3,433(562)
Non-Hispanic black				
Percent very low birthweight Percent low birthweight Mean/Standard deviation ³	2.57 11.19 3,135(632)	2.62 11.28 3,141(637)	2.55 11.66 3,132(635)	2.54 11.92 3,128(635)
Hispanic ⁴				
Percent very low birthweight Percent low birthweight Mean/Standard deviation ³	0.93 5.40 3,337(550)	0.94 5.36 3,344(552)	0.93 5.36 3,343(553)	0.87 5.23 3,351(552)

¹Data by race and Hispanic origin exclude data for New Hampshire and Oklahoma, which did not require reporting of Hispanic origin of mother.

²Includes births to races not shown separately.

³Computed in grams.

⁴Includes persons of Hispanic origin of any race.

NOTE: Very low birthweight is less than 1,500 grams. Low birthweight is less than 2,500 grams.

For 2001, 6.5 percent of Hispanic births weighed less than 2,500 grams compared with 6.4 percent for 1997–2000. Since 1990, this measure has risen moderately for Hispanic births, from 6.1 percent. Hispanic VLBW was 1.14 percent in 2001, unchanged since 1999. Low birthweight among Hispanic singletons was 5.40 percent for 2001 compared with 5.23 percent in 1990; VLBW among Hispanic singletons is essentially unchanged over this period (0.9 percent) (table G).

Notwithstanding differences in LBW trends among non-Hispanic white, non-Hispanic black, and Hispanic births, these groups demonstrate similar reductions of 20 to 25 percent in infant mortality rates between 1990 and 2000 (75,103).

The diversity of the Hispanic subgroups is underscored by large differences in LBW risk among the groups; for example, the rate of LBW for births to Puerto Rican mothers (9.3 percent) was more than 50 percent higher than that for births to Mexican mothers (6.1 percent). (See table 25.) Among the API subgroups, Chinese infants were the least likely (5.3 percent) and Filipino infants the most likely (8.7 percent), to weigh less than 5 and a half pounds (table 24).

The percent of **higher birthweight or macrosomic births** (4,000 grams or more, or at least 8 pounds, 14 ounces) was down markedly between 2000 and 2001, from 9.9 to 9.4 percent. The proportion of higher birthweight infants has generally trended downward after peaking at around 11 percent in the 1980s. (See figure 9.) From 2000 to 2001, macrosomia declined quite substantially among non-Hispanic white infants (from 11.7 to 11.1 percent), but was comparatively stable for Hispanic (9 percent), and non-Hispanic black infants (5 percent) (tables 24 and 25).

The **mean birthweight** for singleton births for 2001 was 3,339 grams, or 7 pounds, 6 ounces (table G). The mean weight of non-

Hispanic white singletons was 3,399 grams, at least 250 grams (9 ounces) higher than the average weight of non-Hispanic black singletons (3,135 grams).

The risk of delivering an LBW infant is highest for the youngest (less than 15 years) and the oldest mothers (45 years of age and over) (table 45). Much of the excess LBW risk of older mothers can be attributed to their higher multiple birth rates. In 2001 one-third of all LBW births to women 45 years of age and over was a multiple birth, compared with 11 percent of LBW births to women under 20 years of age.

There are large differences **among the States in VLBW and LBW rates (tables 46 and 47)**. For 2001, LBW levels for non-Hispanic white births ranged from 5.0 (Alaska) to 8.4 percent (West Virginia). As in previous years, the highest State-specific rate for non-Hispanic white births was lower than the lowest State-specific rate for non-Hispanic black births; 2001 LBW rates for States with at least 1,000 non-Hispanic black births ranged from 9.8 percent in Minnesota, to 14.4 percent in Arizona and Louisiana.

Apgar score

The Apgar score is a routinely performed method of evaluating the general physical condition of the newborn at 1 minute, 5 minutes, and if desired, at additional 5-minute intervals after delivery (104-106). The score measures five easily identifiable infant characteristics-heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each characteristic is assessed and assigned a value of 0 to 2, with 2 being optimum. The total score is the sum of the scores of the five components (104). A score of 0 to 3 indicates an infant in need of resuscitation; a score in the range of 4 to 6 is considered intermediate; a score of 7 or greater indicates that the neonate is in good to excellent physical condition. The 1-minute Apgar (no longer available from national vital statistics data), signals the need for immediate resuscitation. The 5-minute Apgar score can be a useful clinical indicator of the effectiveness of resuscitation efforts, but has limited use in determining the severity of the problem and correlates poorly with future neurologic outcome (105). In 2001 all States except California and Texas reported information on the 5-minute Apgar score, accounting for 78 percent of all U.S. births.

In 2001 the proportion of newborns with Apgar scores of 9 or 10, indicating excellent infant health status has increased very slowly from 88.6 percent in 1978 to 90.3. The proportion of births with low Apgar scores (below 7) declined over 30 percent from 1978 to 1993 (2.1 percent to 1.4) and remained unchanged since then (1.4 percent in 2001) (tables 24 and 25).

For non-Hispanic black infants, unfavorable Apgar scores have declined and excellent Apgar ratings have increased in the past decade, while low and high Apgar ratings have remained steady for non-Hispanic whites. Despite the improvement in scores for non-Hispanic black infants, disparities persist between the two groups. In 2001, 2.3 percent of non-Hispanic black infants have Apgar scores under 7 compared with 1.2 percent of non-Hispanic white infants.

Multiple births (twins, triplets, etc.) are at higher risk of poor outcome compared with singletons (see section on Multiple births) and are thus more likely to have lower Apgar scores. Interestingly, Apgar scores have improved among both multiple and singleton births over the last two decades. Between 1978 and 2001 the percent of multiples with low Apgar scores dropped by nearly one-half (from 9.6 to 4.9); low Apgar scores for singletons declined from 2.0 to 1.2 percent over this period. The amelioration in Apgar scores suggests improvements in resuscitation techniques (107,108).

Abnormal conditions of the newborn

Eight abnormal conditions are reported on the birth certificate. Each year since these data have been collected (1989), the three most frequently reported conditions have been assisted ventilation less than 30 minutes, assisted ventilation of 30 minutes or longer, and hyaline membrane disease/respiratory distress syndrome (RDS) (table 48).

In 2001 the rate for assisted ventilation less than 30 minutes was 22.0 per 1,000. The rate has nearly doubled since 1989 (11.4). The rate of assisted ventilation of 30 minutes or longer was 9.3 per 1,000. This rate has also slowly increased since 1989 (6.9). Assisted ventilation is a mainstay in the treatment of respiratory disorders such as RDS (109,110).

The overall rate of hyaline membrane disease (RDS) was 6.0 per 1,000 in 2001 and has been decreasing slowly since the highest levels were reported for 1994–95 (6.7). Hyaline membrane disease/RDS is a frequent cause of morbidity in preterm infants (111). Risk factors include early gestational age, poorly controlled maternal diabetes, multiple births, and fetal asphyxia (109).

The rate for meconium aspiration syndrome (1.6) has been slowly decreasing since 1989 (3.2); the rate for anemia (1.0) was half the 1989 rate (2.0).

Abnormal conditions may be underreported on the birth certificate (77,112). For example, at birth the observable features of fetal alcohol syndrome (FAS), a leading preventable cause of developmental disabilities and birth defects, may be subtle or not recognized (61,113).

Congenital anomalies

The leading cause of infant deaths in the United States, congenital anomalies, are also a cause of metabolic disorders and disabilities (75,106,114,115). Congenital anomalies are reported on the birth certificates of 49 States and the District of Columbia, accounting for more than 99 percent of births in 2001 (table 49).

Although congenital anomalies are underreported on the birth certificate, birth certificate data may be a valuable resource for exploratory or corroborative studies (77,116). A recent report using birth certificate data corroborated findings of a positive association between maternal smoking and selected birth defects, including cleft lip/palate and clubfoot (116). Complete reporting of these conditions is limited by difficulties in detection at birth (77,117). Anomalies that are most serious and/or apparently cause functional or cosmetic impairment are more likely to be recognized and reported prior to hospital discharge (117). The congenital anomalies reported on the birth certificate are rare events and a small change in the number of anomalies reported can result in a relatively large change in rates. Therefore, caution should also be used in comparing yearly rates for a specific anomaly.

In 2001 rates for the 21 malformations/groups of malformations listed on the birth certificate were essentially unchanged from 2000. The rate of cleft lip/palate was 80.6 per 100,000 births. Clubfoot was reported at a rate of 58.6 per 100,000.

The rate for spina bifida/meningocele in 2001 was 19.9 per 100,000 births; the rate for anencephalus was 9.9. Since 1992 there

has been a nationwide effort to prevent neural tube defects, such as spina bifida and anencephalus, by encouraging increased intake of folic acid among women of childbearing age; fortification of all cereal and grain products with folic acid has been mandatory since 1998 (118). Increased folate use among women of childbearing age was recently reported (119). Significant declines in the rates for these conditions have been observed between 1996 (prefortification) and 2001 (118,120).

Multiple births

The **twin birth rate** continued to climb for 2001, rising 3 percent, to 30.1 per 1,000 total live births. (See table 50 for 2001 data.) The twinning rate has climbed 33 percent since 1990 (22.6 per 1,000), and 59 percent since 1980 (18.9 per 1,000). The current year marks the first that the proportion of all U.S. births that are twins exceeded 3 percent. There were 121,246 births in twin deliveries in 2001, 77 percent more than the number reported for 1980 (68,339) (121).

Twinning rates increased between 2000 and 2001 among non-Hispanic white (33.5 per 1,000 in 2001), and non-Hispanic black mothers (33.9), but were essentially unchanged for Hispanics (20.3). Twin birth rates were up for the current year among all age groups except teenagers, but increases were most pronounced for mothers 40 years of age and older. Twinning rates have risen for all age groups over the last decade, but the largest increases have been for older mothers. Between 1990 and 2001, the twin birth rate for women 40–44 years has almost doubled, rising from 24.7 to 48.1 per 1,000; the rate for women 45–49 years has climbed more than 7 times, from 23.8 to 170.1 (**figure 10**). In contrast, the twin birth rate for women 20–24 years has risen a comparatively modest 16 percent, from 19.2 to 22.3 per 1,000 over this period. In 2001, 17 percent of all births to women 45–49 years of age were twins.

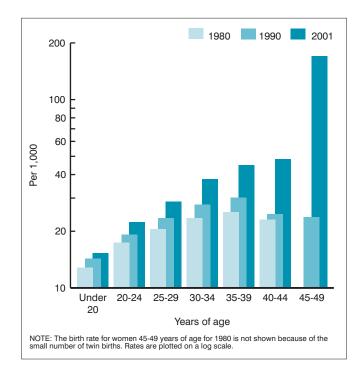


Figure 10. Twin birth rates by age of mother: United States, 1980, 1990, and 2001

Following 2 years of decline, the **birth rate for triplets and other higher order multiples** (triplet/+) also rose 3 percent, to 185.6 triplet/+ births per 100,000. After surging dramatically between 1980 and 1998 (from 37.0 to 193.5 per 100,000) the triplet/+ birth rate (the number of triplets, quadruplets, and quintuplets, and other higher order multiples per 100,000 live births) declined slightly in 1999 and 2000. The current level remains lower than the 1998 peak, however. There were 7,471 triplet/+ births in 2001: 6,885 triplets, 501 quadruplets, and 85 quintuplets and other higher order multiples. The number of quadruplets and quintuplets and other higher order multiples has been fairly stable since 1996 (122).

The upsurge in multiple births over the last 2 decades, especially in triplet/+ births, has been associated with two related trends: advances in, and greater access to fertility therapies (assisted reproductive technologies (ART) such as *in vitro* fertilization (IVF), and non-ART procedures such as intrauterine insemination and ovulationinducing drugs), and with the older age of childbearing (women in their thirties are more likely to have a multiple birth than younger women even without the use of fertility therapies) (123–125). A study of 1997 triplet/+ births estimated that 43 percent resulted from ART, 38 percent were the result of ovulation-inducing drugs; only 20 percent of triplet/+ births were spontaneously conceived (98).

Between 1990 and 1998, the triplet/+ birth rate climbed an average of 13 percent annually. Notwithstanding the 3 percent rise in the triplet/+ rate for the current year, the dramatic surge in triplet births appears to have subsided, at least for the short term. The shift in this trend, particularly among older women (**see figure 11**)—those most likely to seek fertility therapy—suggests the influence of more than changing demographics. In 1999 The American College of Obstetricians and Gynecologists and The American Society of Reproductive Medicine issued recommendations intended to prevent triplets/+ pregnancies because of their elevated risk of poor outcome (126,127). Recent refinements to fertility-enhancing therapies, particularly to IVF, which lower the risk of multifetal pregnancy, also may be affecting the incidence of higher order multiple births (126–129).

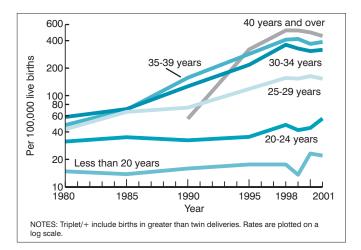


Figure 11. Triplet/+ birth rates by age of mother: United States, 1980–2001

The rate of triplet/+ births rose 3 percent between 2000 and 2001 for non-Hispanic white and Hispanic women (to 253.3 and 83.3 per 100,000, respectively), and 8 percent among non-Hispanic black women (90.0). Age-specific triplet/+ birth rates for non-Hispanic white mothers are similar to those of black mothers through age group 20–24 years, but are more than double those of black mothers thereafter.

The elevated risk of multiple births is demonstrated in **text table H**. In 2001 the average twin was delivered more than 3 weeks earlier than the average singleton (35.4 compared with 38.8); the average triplet was born more than 6 weeks earlier (32.0). The average triplet weighed about half of its singleton counterpart at birth. Although infant mortality has declined by about a third for both twins and triplet/+ between 1990 and 2000, the risk of early death for twins continues to be nearly 5 times that of singletons and the risk for triplets/+ 10 times as high (75, 103). Those who survive are at increased risk of long-term disabilities such as cerebral palsy (130). Women with multiple-fetal pregnancies are also at increased risk—they are more likely to develop pregnancy-induced complications (130).

	Twins	Triplets	Quadruplets	Quintuplets/+	Singletons
Number	121,246	6,885	501	85	3,897,216
Percent very preterm ¹	11.8	36.7	64.5	78.6	1.6
Percent preterm ²	57.4	92.4	97.8	91.7	10.4
standard deviation.	35.4(3.7)	32.0(4.0)	29.6(4.1)	29.1(3.9)	38.8(2.5)
Percent very low birthweight ³	10.2	34.8	68.4	77.4	1.1
Percent low birthweight ⁴	54.9	94.0	98.4	91.7	6.04
standard deviation.	2,353(647)	1,678(574)	1,290(549)	1,269(676)	3,339(573)

Table H. Gestational age and birthweight characteristics by plurality: United States, 2001

¹Very preterm is less than 32 completed weeks of gestation.

²Preterm is less than 37 completed weeks of gestation.

³Very low birthweight is less than 1,500 grams.

⁴Low birthweight is less than 2,500 grams.

References

- Martin JA, Hamilton BE, Park MM, Sutton PD. Births: Preliminary data for 2001. National vital statistics reports; vol 50 no 10. Hyattsville, Maryland: National Center for Health Statistics. 2002.
- National Center for Health Statistics. Natality public-use tape and CD-ROM. Hyattsville, Maryland: National Center for Health Statistics. Annual products.
- National Center for Health Statistics. Vital statistics of the United States, 1999, volume I, natality. Available at: http://www.cdc.gov/nchs/ datawh/statab/unpubd/natality/natab99.htm.
- 4. National Center for Health Statistics. Technical appendix. Vital statistics of the United States, 2001, vol I natality. U.S. Department of Health and Human Services. Centers for Disease Control and Prevention. National Center for Health Statistics. Hyattsville, Maryland. (Forthcoming.) Available on the NCHS Web site at: http://www.cdc.gov/nchs/births.htm and included on the CD-ROM titled Vital Statistics of the United States, vol 1, Natality, 2001.
- U.S. Census Bureau. Profile of general demographic characteristics for the United States: 1990. Washington: U.S. Department of Commerce. Released May 15, 2001. Available at: http://www.census.gov/Press-Release/www/2001/tables/dp_us_1990.PDF.
- U.S. Census Bureau. Profile of general demographic characteristics for the United States: 2000. Washington: U.S. Department of Commerce. Released May 15, 2001. Available at: http://www.census.gov/Press-Release/www/2001/tables/dp_us_2000.PDF.
- U.S. Census Bureau. Unpublished census file Nchs_res2001_ base1990.xls. Estimates of the United States by age, sex, race, and Hispanic origin: 2001. Washington: U.S. Census Bureau.
- U.S. Census Bureau. Resident population estimates of the United States by age and sex: April 1, 1990 to July 1, 1999, with short-term projection to November 1, 2000. Available at: http://eire.census.gov/ popest/archives/national/nation2/intfile2–1.txt (accessed October 14, 2002).
- Ventura SJ, Mathews TJ, Hamilton BE. Births to teenagers in the United States, 1940–2000. National vital statistics reports; vol 49 no 10. Hyattsville, Maryland: National Center for Health Statistics. 2001.
- Ventura SJ, Mosher WD, Curtin SC, Abma JC, Henshaw S. Trends in pregnancies and pregnancy rates by outcome: Estimates for the United States, 1976–96. National Center for Health Statistics. Vital Health Stat 21(56). 2000.
- Ventura SJ, Mosher WD, Curtin SC, Abma JC, Henshaw S. Trends in pregnancy rates in the United States, 1976–97: An update. National vital statistics reports; vol 49 no 9. Hyattsville, Maryland: National Center for Health Statistics. 2001.
- Herndon J, Strauss LT, Whitehead S, et al. Abortion surveillance— United States, 1998. In: CDC surveillance summaries, April 13, 2002. MMWR 51(No. SS-3):1–32. 2002.
- Jones RK, Darroch JE, Henshaw SK. Patterns in the socioeconomic characteristics of women obtaining abortions in 2000–2001. Perspectives on Sexual and Reproductive Health. 34(5):226–35. 2002.
- Abma JC, Chandra A, Mosher WD, Peterson LS, Piccinino LJ. Fertility, family planning, and women's health: New data from the 1995 National Survey of Family Growth. National Center for Health Statistics. Vital Health Stat 23(19). 1997.
- Abma JC, Sonenstein F. Sexual activity and contraceptive practices among teenagers in the United States, 1988 and 1995. Vital Health Stat 23(21). 2001.
- Brener N, Lowry R, Kann L, et al. Trends in sexual risk behaviors among high school students—United States, 1991–2001. MMWR 51(38):856–9. 2002.

- 17. National Campaign to Prevent Teen Pregnancy. Mission and Goal. Available at: http://www.teenpregnancy.org/about/atc.asp (accessed October 15, 2002).
- Piccinino LJ, Mosher WD. Trends in contraceptive use in the United States: 1982–1995. Fam Plann Persp 30(1):4–10, 46. 1998.
- Ventura SJ. Trends and variations in first births to older women, 1970–86. National Center for Health Statistics. Vital Health Stat 21(47). 1989.
- U.S. Census Bureau. Census 2000 Summary File 1 (SF1) 100-Percent Data. Table QT-P1. Age Groups and Sex: 2000. Washington: U.S. Census Bureau. Internet release, November 16, 2001. Available at: http://factfinder.census.gov.
- U.S. Census Bureau. 1990 Summary Tape File 1 (STF1) 100-Percent Data. Table QT-P1. Age and Sex: 1990. Washington: U.S. Census Bureau. Internet release, May 1992. Available at: http://factfinder. census.gov.
- 22. Zhang J, Meikle S, Grainger DA, Trumble A. Multifetal pregnancy in older women and perinatal outcomes. Fertil Steril 78(3):562–8. 2002.
- Chandra A, Stephen EH. Impaired fecundity in the United States: 1982–1995. Fam Plann Persp 30(1):34–42. 1998.
- Stephen EH, Chandra A. Use of infertility services in the United States: 1995. Fam Plann Persp 32(3):132–7. 2000.
- Mathews TJ, Hamilton BE. Mean Age of Mothers: 1970–2000. National vital statistics reports; vol 51 no 1. Hyattsville, Maryland: National Center for Health Statistics. 2002.
- Davis DL, Gottlieb MB, Stampnitzky JR. Reduced ratio of male to female births in several industrial countries: a sentinel health indicator? JAMA 279(13):1018–23. 1998.
- Trivers RL, Willard DE. Natural selection of parental ability to vary the sex ratio of offspring. Science 179(68):90–2. 1973.
- Clarke JI. The Human Dichotomy: Changing Numbers of Males and Females. New York: Pergamon. 2000.
- Fields J, Casper L. Unpublished data from the March 2000 current population survey. U.S. Bureau of the Census. 2001.
- Fields J. Unpublished data from the March 2001 current population survey. U.S. Bureau of the Census. 2002.
- Ventura SJ, Bachrach CA. Nonmarital childbearing in the United States, 1940–99. National vital statistics reports; vol 48 no 16. Hyattsville, Maryland: National Center for Health Statistics. 2000.
- Newburger EC, Curry AE. Educational attainment in the United States: March 1999. Current Population Reports, P20–528. Washington: U. S. Bureau of the Census. 2000. Available at: http://www.census.gov/prod/ 2000pubs/p20–528.pdf.
- Newburger EC, Curry AE. Educational attainment in the United States: March 2000. (Update). Current Population Reports, P20–536. Washington: U. S. Bureau of the Census. 2000. Available at: http://www. census.gov/population/socdemo/education/p20–536/p20–536.pdf.
- Bachu A, O'Connell M. Fertility of American women: June 2000. Current Population Reports, P20–543RV. Washington: U.S. Bureau of the Census. 2000. Available at: http://www.census.gov/prod/2001pubs/ p20–543rv.pdf.
- Cunningham FG, Gant NF, Leveno KJ, et al. Eds. Williams Obstetrics (21st edition). New York, NY: McGraw-Hill. 2001.
- Parker JD, Abrams B. Prenatal weight gain advice: An examination of the recent prenatal weight gain recommendations of the Institute of Medicine. Obstet & Gynecol 79 (5, Part I): 664–9. 1992.
- Abrams B, Selvin S. Maternal weight gain pattern and birthweight. Am J Obstet Gynecol. 82(2): 163–9. 1995.
- Lu GC, Rouse DJ, DuBard M, Cliver S, Kimberlin D, Hauth JC. The effect of the increasing prevalence of maternal obesity on perinatal morbidity. Am J Obstet Gynecol. 185(4): 845–9. 2001.

- American Academy of Pediatrics and American College of Obstetricians and Gynecologists. Guidelines for Perinatal Care (4th edition). 1997.
- Abrams B, Altman SL, Pickett KE. Pregnancy weight gain: still controversial. Am J Clin Nutr 71 (suppl):1233S-41S. 2000.
- Schieve LA, Cogswell ME, Scanlon KS. Trends in pregnancy weight gain within and outside ranges recommended by the institute of medicine in a WIC population. Maternal and Child Health Journal 2(2): 111–6. 1998.
- Lydakis C, Beevers DG, et al. Obstetric and neonatal outcome following chronic hypertension in pregnancy among different ethnic groups. QJM 91(12):837–44. 1998.
- Sibai BM, Lindheimer M, Hauth J, et al. Risk factors for preeclampsia, abruptio placentae, and adverse neonatal outcomes among women with chronic hypertension. NEJM 339(10):667–71. 1998.
- 44. Xiong X, Mayes D, et al. Impact of pregnancy-induced hypertension on fetal growth. Am J Obstet Gynecol 180(1 Pt 1):207–13. 1999.
- Woolbright LA, Hilliard M, Harshbarger DS, et al. Improving medical risk factor reporting on birth certificates in Alabama. Southern Medical J 92(9):893–7. 1999.
- Scott JR, Di Saia PJ, Hammond CB, et al. Eds. Danforth's Obstetrics and Gynecology (8th edition). Philadelphia, PA: Lippincott Williams & Wilkins. 1999.
- National Center for Health Statistics. Advance report of new data from the 1989 birth certificate. Monthly vital statistics report; vol 40 no 12 supp. Hyattsville, Maryland: National Center for Health Statistics. 1992.
- Mathews TJ. Smoking during pregnancy during the 1990s. National vital statistics reports; vol 49 no 7. Hyattsville, Maryland: National Center for Health Statistics. 2001.
- Dietz PM, Adams MM, Kendrick JS, Mathis MP, The PRAMS Working Group. Completeness of ascertainment of prenatal smoking using birth certificates and confidential questionnaires: Variations by maternal attributes and infant birth weight. Am J Epidemiol 148(11):1048–54. 1998.
- Kharrazi M, Epstein D, Hopkins B, et al. Evaluation of four smoking questions. Pub Health Rep 114(1):60–70. 1999.
- 51. Ventura SJ. Commentary: Using the birth certificate to monitor smoking during pregnancy. Pub Health Rep 114(1):71–3. 1999.
- Wong M, Koren G. Bias in maternal reports of smoking during pregnancy associated with fetal distress. Canadian Journal of Public Health 92(2):102–12. 2001.
- Centers for Disease Control and Prevention. Trends in cigarette smoking among high school students—United States, 1991–2001. MMWR 51(19):409–12. 2002.
- Centers for Disease Control and Prevention. Prevalence of selected maternal behaviors and experiences, Pregnancy Risk Assessment Monitoring System (PRAMS), 1999. MMWR 51(SS-2):1–27. 2002.
- Kleinman JC, Madans JH. The effects of maternal smoking, physical stature, and educational attainment on the incidence of low birth weight. Am J Epidemiol 121(6):843–55. 1985.
- Office of the Surgeon General, Public Health Service, U.S. Department of Health and Human Services. Women and smoking: A report of the Surgeon General. Washington: U.S. Department of Health and Human Services. 2001.
- Miller DP, Villa KF, Hogue SL, Sivapathasundaram D. Birth and first-year costs for mothers and infants attributable to smoking. Nicotine and Tobacco Research 3(1):25–35. 2001.
- Crump C, Lipsky S, Mueller BA. Adverse birth outcomes among Mexican-Americans: Are U.S.-born women at greater risk than Mexican-born women? Ethn Health 4(1–2):29–34. 1999.
- Sampson PD, Bookstein FL, Barr HM, Steissguth AP. Prenatal alcohol exposure, birthweight, and measures of child size from birth to 14 years. Am J Public Health 84(9):1421–8. 1994.

- Roeleveld N, Vingerhoets E, Zielhuis GA, Gabreels F. Mental retardation associated with parental smoking and alcohol consumption before, during, and after pregnancy. Prev Medicine 21:110–9. 1992.
- Centers for Disease Control and Prevention. Alcohol use among women of childbearing age—United States, 1991–1999. MMWR 51(13):273–6. 2002.
- Ventura SJ, Martin JA, Curtin SC, Menacker F, Hamilton BE. Births: Final data for 1999. National vital statistics reports; vol 49 no 1. Hyattsville, Maryland: National Center for Health Statistics. 2001.
- Howell EM. The impact of medicaid expansions for pregnant women: A synthesis of the evidence. Med Care Research and Review 58(1):3–30. 2001.
- Alexander GR, Kotelchuck M. Assessing the role and effectiveness of prenatal care: History, challenges, and directions for future research. Pub Health Rep 116: 306–16. 2001.
- Fiscella K. Does prenatal care improve birth outcomes? A critical review. Obstet Gynecol. 85(3): 468–79. 1995.
- U.S. Public Health Service. Caring for our future: The content of prenatal care. Washington: U.S. Dept of Health and Human Services. 1989.
- Kogan MD, Martin JA, Alexander GR, Kotelchuk M, Ventura SJ, Frigoletto FD. The changing pattern of prenatal care utilization in the United States, 1981–1995, using different prenatal care indices. JAMA 279(20):1623–8. 1998.
- Kotelchuck M. An evaluation of the Kessner adequacy of prenatal care index and a proposed adequacy of prenatal care utilization index. Am J Public Health 84 (9): 1414–20. 1994.
- Banta HD, Thacker SB. Historical controversy in health technology assessment: the case of electronic fetal monitoring. Obstet Gynecol Survey 56(11): 707–19. 2001.
- Dobie SA, Baldwin L-M, Roger A, et al. How well do birth certificates describe the pregnancies they report? The Washington State experience with low-risk pregnancies. Maternal Child Health J 2(3):145–54. 1998.
- Reichman NE, Hade EM. Validation of birth certificate data: a study of women in New Jersey's HealthStart program. Ann Epidem 11(3): 186–93. 2001.
- MacDorman MF, Mathews TJ, Martin JA, Malloy MH. Trends and characteristics of induced labor in the United States, 1989–98. Paediatr and Perinat Epidemiol. 16: 263–73. 2002.
- 73. Zlatnick FJ. Elective Induction of labor. Clin Obstet & Gynecol. 42(4):757–65. 1999.
- Rosen LJ, Zucker D, Oppenheimer-Gazit V, Yagel S. The great tocolytic debate: some pitfalls in the study of safety. Am J Obstet Gynecol 184(2):1–7. 2001.
- Mathews TJ, Menacker F, MacDorman MF. Infant mortality statistics from the 2000 period linked birth/infant death data set. National vital statistics reports; vol 50 no 12. Hyattsville, Maryland: National Center for Health Statistics. 2002.
- Rosenberg SN, Albertsen PC, Jones EE, Roberts RS. Complications of labor and delivery following uncomplicated pregnancy. Medical Care. 19(1):68–79. 1981.
- Piper JM, Mitchel EF, Snowden M, et al. Validation of 1989 Tennessee birth certificates using maternal and newborn hospital records. Am J Epidemiol 137(7):758–68. 1993.
- Parrish KM, Holt VL, Connell FA, et al. Variations in the accuracy of obstetric procedures and diagnoses on birth records in Washington State, 1989. Am J. Epidemiol 138(2):119–27. 1989.
- Clarke SC, Martin JA, Taffel SM. Trends and characteristics of births attended by midwives. Statistical Bulletin 78(1):9–18. 1997.
- Roberts J. Challenges and opportunities for nurse-midwives. Nurs Outlook 49:213–6. 2001.

- Curtin SC, Park MM. Trends in the attendant, place, and timing of births, and in the use of obstetric interventions: United States, 1989–97. National vital statistics reports; vol 47 no 27. Hyattsville, Maryland: National Center for Health Statistics. 1999.
- Pang JWY, Heffelfinger JD, Huang GD, Benedetti TJ. Outcomes of planned home births in Washington State: 1989–1996. Obstet & Gynecol 100(2): 253–9. 2002.
- U.S. Department of Health and Human Services. Tracking Healthy People 2010. Washington: U.S. Government Printing Office. B16–20. November 2000.
- Zinberg, S. Vaginal delivery after previous cesarean delivery: a continuing controversy. Clin Obstet & Gynecol 44(3): 561–9. 2001.
- American College of Obstetricians and Gynecologists. Evaluation of cesarean delivery. ACOG Guidelines. Washington: American College of Obstetricians and Gynecologists. 2000.
- Harer WB Jr. Patient choice cesarean. ACOG Clinical Review 5(2): 1, 13–6. 2000.
- McMahon MJ, Luther ER, Bowes WA, Olshan AF. Comparison of a trial of labor with an elective second cesarean section. NEJM 335:689–95. 1996.
- Lydon-Rochelle M, Holt VL, Easterling TR, Martin DP. Risk of uterine rupture during labor among women with a prior cesarean delivery. NEJM 345(1):3–8. 2001.
- Zinberg S. Executive desk. College recommendations on VBAC based on uterine rupture. ACOG Today 44(4):2. 2000.
- Ecker JL, Chen KT, Cohen AP, et al. Increased risk of cesarean delivery with advancing maternal age: indications and associated factors in nulliparous women. Am J Obstet Gynecol 185(4):883–7. 2001.
- Menacker F, Curtin SC. Trends in cesarean birth and vaginal birth after previous cesarean, 1991–99. National vital statistics reports; vol 49 no 13. Hyattsville, Maryland: National Center for Health Statistics. 2001.
- Goldenberg RL, Rouse DJ. Prevention of premature birth. NEJM 339(5): 313–20. 1998.
- Johnson RB, Williams MA, Hogue CJR, Mattison DR. Overview: new perspectives on the stubborn challenge of preterm birth. Paediatr Perinat Epidemiol 15(Suppl.2): 3–6. 2001.
- Blondel B, Kogan MD, Alexander GR, et al. The impact of the increasing number of multiple births on the rates of preterm birth and low birthweight: An international study. Am J Pub Health 92(8):1323–30. 2002.
- Zhang J, Yancey MK, Henderson CE. U.S. national trends in labor induction, 1989–98. J Reprod Med 47(2): 120–4. 2002.
- Hack M, Klein NK, Taylor HG. Long-term developmental outcomes of low birth weight infants. In: The Future of Children: Low Birth Weight. Vol 5(1):19–34. Los Altos, CA: Center for the Future of Children. The David and Lucile Packard Foundation. 1995.
- Branum AM, Schoendorf KC. Changing patterns of low birthweight and preterm birth in the United States, 1981–98. Paediatr and Perinat Epidemiol 16:8–15. 2002.
- Centers for Disease Control and Prevention. Contribution of assisted reproductive technology and ovulation-inducing drugs to triplet and higher-order multiple births—United States, 1980–1997. MMWR 49(24):535–8. 2000.
- Society for Assisted Reproductive Technology, The American Fertility Society. Assisted reproductive technology in the United States and Canada: 1991 results generated from the Society for Assisted Reproductive Technology generated from The American Fertility Society Registry. Fertil Steril 59(5): 956–62. 1993.
- 100. Society for Assisted Reproductive Technology and the American Society for Reproductive Medicine. Assisted reproductive technology in the United States and Canada: 1995 results generated from the

Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. Fertil Steril 69(3): 389–96. 1998.

- 101. Society for Assisted Reproductive Technology and the American Society for Reproductive Medicine. Assisted reproductive technology in the United States: 1998 results generated from the American Society for Reproductive Medicine/Society for Assisted Reproductive Technology Registry. Fertil Steril 77(1): 18–31. 2002.
- Schieve LA, Meikle SF, Ferre C, et al. Low and very low birth weight in infants conceived with use of assisted reproductive technology. NEJM 346(10):731–7. 2002.
- 103. National Center for Health Statistics. Unpublished tabulations from the 1990 Linked birth/Infant death cohort. 1995.
- Apgar V. A proposal for a new method of evaluation of the newborn infant. Current Researches in Anesthesia and Analgesia 260–7. July–Aug. 1953.
- Committee on Fetus and Newborn, American Academy of Pediatrics, and Committee on Obstetric Practice, American College of Obstetricians and Gynecologists. Use and abuse of the Apgar score. Pediatrics 98:141–2. 1996.
- Stoll BJ, Kliegman R. The fetus and the neonatal newborn. In: Behrman RE, Kliegman RM, Jenson HB, Eds. Nelson Textbook of Pediatrics (16th edition). Philadelphia, Pennsylvania: W.B. Saunders Company. 2000.
- 107. Hegyi T, Carbone T, Anwar M, et al. The Apgar score and its components in the preterm infant. Pediatrics 101(1):77-81. 1998.
- Patel D, Piotrowski ZH, Nelson MR, Sabich R. Effect of stateswide neonatal resuscitation training program on Apgar scores among high-risk neonates in Illinois. Pediatrics 107(4):648–55. 2001.
- Martin RJ, Fanaroff AA. The respiratory distress syndrome and its management. In: Fanaroff AA, Martin RJ, Eds. Neonatal-Perinatal Medicine (6th edition) Vol II. St. Louis, MO: Mosby. 1997.
- Angus DC, Linde-Zwirble WT, Clermont G, et al. Epidemiology of neonatal respiratory failure in the United States. Projections from California and New York. Am J Respir Crit Care Med. 164: 1154–60. 2001.
- 111. Whitsett JA, Pryhuber GS, Rice WA, et al. In: Avery GB, Fletcher MA, MacDonald MG, Eds. Neonatology Pathophysiology and Management of the Newborn (5th edition). Philadelphia: Lippincott Williams & Wilkins. 1999.
- Hamvas A, Kwong P, DeBaun M, et al. Hyaline membrane disease is underreported in a linked birth-infant death certificate database. Am J Pub Health 88(9): 1387–9. 1998.
- Stoler JM, Holmes LB. Under-recognition of prenatal alcohol effects in infants of known alcohol abusing women. The Journal of Pediatrics 134(4): 430–6. 1999.
- Anderson, RN. Deaths: Leading causes for 1999. National vital statistics reports; vol 49 no 11. Hyattsville, Maryland: National Center for Health Statistics. 2001.
- Lee K, Khoshnood B, Chen L, Wall SN, Cromie WJ, Mittendorf RL. Infant mortality from congenital malformations in the United States, 1970–1997. Obstet Gynecol 98(4): 620–7. 2001.
- Honein JA, Paulozzi LJ, Watkins ML. Maternal smoking and birth defects: validity of birth data for effect estimation. Public Health Reports 116: 327–35. 2001.
- 117. Schaefer-Graf UM, Buchanan TA, Xiang A, et al. Patterns of congenital anomalies and relationship to initial maternal fasting glucose levels in pregnancies complicated by type 2 and gestational diabetes. Am J Obstet Gynecol 182(2): 313–20. 2000.
- Mathews TJ. Trends in spina bifida and anencephalus in the United States, 1991–2001. NCHS-Health E Stats. National Vital Statistics System. http://www.cdc.gov/nchs/products/pubs/pubd/hestats/spine_ anen.htm. September 2002.

- Centers for Disease Control and Prevention. Folate status in women of childbearing age—United States, 1999. MMWR 49(42):962–5. 2000.
- Centers for Disease Control and Prevention. Spina Bifida and Anencephaly Prevalence—United States, 1991–2001. MMWR 51(RR-13): 9–11. 2002.
- Martin JA, Park MM. Trends in twin and triplet births: 1980–97. National vital statistics reports; vol 47 no 24. Hyattsville, Maryland: National Center for Health Statistics. 1999.
- 122. Martin JA, Hamilton BE, Ventura SJ, Menacker F, Park MM. Births: Final data for 2000. National vital statistics reports; vol 50 no 5. Hyattsville, Maryland: National Center for Health Statistics. 2002.
- 123. Kiely JL, Kleinman JC, Kiely M. Triplets and other higher order multiple births: time trends and infant mortality. AJDC 146:862–8. 1992.
- Wilcox LS, Kiely JL, Melvin CL, Martin MC. Assisted reproductive technologies: Estimates of their contribution to multiple births and newborn hospital days in the United States. Fertil Steril 65(2):361–6. 1996.
- 125. Reynolds MA, Schieve LA, Jeng G, et al. Risk of multiple birth associated with in vitro fertilization using donor eggs. Am J Epidimiol 154(11): 1043–50. 2001.
- 126. American College of Obstetricians and Gynecologists. Nonselective embryo reduction: ethical guidance for the obstetrician-gynecologist. ACOG Committee Opinion 215. Washington: American College of Obstetricians and Gynecologists. 1999.
- American Society for Reproductive Medicine. Guidelines on number of embryos transferred. A Practice Committee Report—A Committee Opinion. American Society for Reproductive Medicine. 1999.
- Templeton A, Morris JK. Reducing the risk of multiple births by transfer of two embryos after in vitro fertilization. NEJM 339(9):573–7. 1998.
- Gardner DK, Vella P, Lane M, et al. Culture and transfer of human blastocysts increases implantation rates and reduces the need for multiple embryo transfers. Fertil Steril 69(1):85–8. 1998.
- 130. The ESHRE CapriWorkshop Group. Multiple gestation pregnancy, Hum Rep 15:1856–64. 2000.
- Ventura SJ, Martin JA, Taffel SM, Mathews TJ, Clarke SC. Advance report of final natality statistics, 1992. Monthly vital statistics report; vol 43 no 5 supp. Hyattsville, Maryland: National Center for Health Statistics. 1994.
- Martin JA. Birth characteristics for Asian or Pacific Islander subgroups, 1992. Monthly vital statistics report; vol 43 no 10 supp. Hyattsville, Maryland: National Center for Health Statistics. 1995.
- Mathews TJ, Ventura SJ, Curtin SC, Martin JA. Births of Hispanic origin, 1989–95. Monthly vital statistics report; vol 46 no 6 supp. Hyattsville, Maryland: National Center for Health Statistics. 1998.
- 134. Ventura SJ. Births to unmarried mothers: United States, 1980–92. National Center for Health Statistics. Vital Health Stat 21(53). 1995.
- National Center for Health Statistics. Computer edits for natality data, effective 1993. Instruction manual, part 12. Hyattsville, Maryland: National Center for Health Statistics. 1995.
- Alexander GR, Allen MC. Conceptualization, measurement, and use of gestational age. I. Clinical and Public Health Practice. J Perinatal 16(1):53–9. 1996.
- 137. U.S. Census Bureau. Age, sex, race, and Hispanic origin information from the 1990 census: A comparison of census results with results where age and race have been modified. 1990 CPH-L-74. Washington: U.S. Department of Commerce. 1991.
- U.S. Census Bureau. Table US-2001EST-01—Time Series of National Population Estimates: April 1, 2000 to July 1, 2001. Washington: U.S. Census Bureau. Internet release, December 27, 2001. Available at: http://eire.census.gov/popest/data/national/tables/NA-EST2001–01.php
- U.S. Census Bureau. Unpublished census file Nchs_res2001s_ 1990base.xls. Estimates of the population for the States by age and sex: 2001. Washington: U.S. Census Bureau.

- 140. Bailer JC, Ederer F. Significance factors for the ratio of a Poisson variable to its expectations. Biometrics. 20:639–43. 1964.
- 141. Brockert JE, Stockbauer JW, Senner JW, et al. Recommended standard medical definitions for the U.S. Standard Certificate of Live Birth, 1989 revision. Paper presented at the annual meeting of the Association for Vital Records and Health Statistics. Traverse City, Michigan. June 25–27, 1990.
- 142. Ventura SJ, Mathews TJ, Hamilton BE. Teenage births in the United States: State Trends, 1991–2000, an update. National Vital Statistics Reports; vol 50 no 9. Hyattsville, Maryland: National Center for Health Statististics. 2002.

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States ¹ United States or all reporting areas 1 Years: Current year only 1 Trend 1 Type of entry: Number of births 1 Rates or other measures 1 Characteristics: Age of father 1	2	3	4	5	6				10	11	12	13	14	15	16	17	18		20	21	22	23	24	
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Number of births. 1 Rates or other measures 1 Characteristics: Age of father Age of mother			4	5	6			9									18		20					
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Characteristics: Age of father	2		4	5		7			10	11	12	13	14	15	16	17		19		21	22			
Age of father	2				6		8	9	10			13	14	15	16	17	18	19	20	21	22	23	24	25
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Alaabal uga		3	4			7		9								17	18			21				
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Tobacco use				29	30	31	32																		

¹Includes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas.

²Includes white, black, American Indian, Asian or Pacific Islander.

³Includes white and black.

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

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

Table 1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-2001

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

			Number					Birth ra	ate				Fertility	rate	
Year	All races ¹	White	Black	American Indian ²	Asian or Pacific Islander	All races ¹	White	Black	American Indian ²	Asian or Pacific Islander	All races ¹	White	Black	American Indian ²	Asian or Pacific Islander
Registered births															
Race of mother:															
2001			606,156	41,872	200,279	14.5	13.9	17.0	16.9	17.2	66.9	66.3	69.5	70.8	69.4
2000			622,598	41,668 40,170	200,543 180,776	14.7	14.1 13.9	17.6 17.4	17.1 16.8	17.8	67.5	66.5	71.7 70.1	71.4 69.7	70.7
1999 1998		3,132,501 3,118,727	605,970 609,902	40,170	172,652	14.5 14.6	14.0	17.4	17.1	16.7 16.4	65.9 65.6	65.1 64.6	70.1	70.7	65.6 64.0
1997		3,072,640	599,913	38,572	169,769	14.5	13.9	17.7	16.6	16.9	65.0	63.9	70.7	69.1	66.3
1996		3,093,057	594,781	37,880	165,776	14.7	14.1	17.8	16.6	17.0	65.3	64.3	70.7	68.7	65.9
1995		3,098,885	603,139	37,278	160,287	14.8	14.2	18.2	16.6	17.3	65.6	64.4	72.3	69.1	66.4
1994 1993		3,121,004 3,149,833	636,391 658,875	37,740 38,732	157,632 152,800	15.2 15.5	14.4 14.7	19.5 20.5	17.1 17.8	17.5 17.7	66.7 67.6	64.9 65.4	76.9 80.5	70.9 73.4	66.8 66.7
1992			673,633	39,453	150,250	15.9	15.0	20.3	18.4	18.0	68.9	66.5	83.2	75.4	67.2
1991		3,241,273	682,602	38,841	145,372	16.3	15.4	21.9	18.3	18.2	69.6	67.0	85.2	75.1	67.6
1990			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 1988		3,192,355 3,102,083	673,124 638,562	39,478 37,088	133,075 129,035	16.4 16.0	15.4 15.0	22.3 21.5	19.7 19.3	18.7 19.2	69.2 67.3	66.4 64.5	86.2 82.6	79.0 76.8	68.2 70.2
1987		3,043,828	611,173	35,322	129,035	15.7	14.9	21.5	19.3	19.2	65.8	63.3	80.1	75.6	67.1
1986		3,019,175	592,910	34,169	107,797	15.6	14.8	20.5	19.2	18.0	65.4	63.1	78.9	75.9	66.0
1985	3,760,561	3,037,913	581,824	34,037	104,606	15.8	15.0	20.4	19.8	18.7	66.3	64.1	78.8	78.6	68.4
1984 ³	3,669,141	2,967,100	568,138	33,256	98,926	15.6	14.8	20.1	20.1	18.8	65.5	63.2	78.2	79.8	69.2
1983 ³ 1982 ³			562,624 568,506	32,881 32,436	95,713 93,193	15.6 15.9	14.8 15.1	20.2 20.7	20.6 21.1	19.5 20.3	65.7 67.3	63.4 64.8	78.7 80.9	81.8 83.6	71.7 74.8
1981 ³	3.629.238	2,964,617	564,955	29,688	84,553	15.8	15.0	20.7	20.0	20.3	67.3	64.8	82.0	79.6	74.8
	3,612,258		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:															
	3,612,258		589,616	36,797		15.9	14.9	22.1			68.4	64.7	88.1		
1979 ³ 1978 ³	3,494,398	2,808,420 2,681,116	577,855 551,540	34,269 33,160		15.6 15.0	14.5 14.0	22.0 21.3			67.2 65.5	63.4 61.7	88.3 86.7		
1977 ³	3,326,632	2,691,070	544,221	30,500		15.0	14.0	21.3			66.8	63.2	88.1		
1976 ³		2,567,614	514,479	29,009		14.6	13.6	20.5			65.0	61.5	85.8		
	3,144,198	2,551,996	511,581	27,546		14.6	13.6	20.7			66.0	62.5	87.9		
1974 ³			507,162	26,631		14.8	13.9	20.8			67.8	64.2	89.7		
1973 ³ 1972 ³	3,136,965 3,258,411	2,551,030 2,655,558	512,597 531,329	26,464 27,368		14.8 15.6	13.8 14.5	21.4 22.5			68.8 73.1	64.9 68.9	93.6 99.9		
	3,555,970		564,960	27,148		17.2	16.1	24.4			81.6	77.3	109.7		
1970 ⁴	3,731,386		572,362	25,864		18.4	17.4	25.3			87.9	84.1	115.4		
	3,600,206	2,993,614	543,132	24,008		17.9	16.9	24.4			86.1	82.2	112.1		
	3,501,564 3,520,959	2,912,224 2,922,502	531,152 543,976	24,156 22,665		17.6 17.8	16.6 16.8	24.2 25.1			85.2 87.2	81.3 82.8	112.7 118.5		
1966 ⁴		2,922,502	558,244	23,005		18.4	17.4	26.2			90.8	86.2	124.7		
1965 4	, ,	3,123,860	581,126	24,066		19.4	18.3	27.7			96.3	91.3	133.2		
1964 4	4,027,490	3,369,160	607,556	24,382		21.1	20.0	29.5			104.7	99.8	142.6		
1963 ^{4, 6}	4,098,020	3,326,344	580,658	22,358		21.7	20.7				108.3	103.6			
1962 ^{4, 6} 1961 ⁴	4,167,362		584,610 611,072	21,968 21,464		22.4 23.3	21.4 22.2				112.0 117.1	107.5 112.3			
1960 ⁴	4,257,850	3,600,744	602,264	21,114		23.7	22.7	31.9			118.0	113.2	153.5		
Births adjusted for underregis- tration															
Race of child:															
1955						25.0	23.8				118.3	113.7			
1950						24.1	23.0				106.2	102.3			
1945 1940						20.4 19.4	19.7 18.6				85.9 79.9	83.4 77.1			
1340	2,009,000	2,199,000				19.4	10.0				19.9	//.1			

Data not available. 1

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

For 1960-91 includes births to races not snown 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 20- to 50-percent sample of births.
 Based on a 20- to 50-percent sample of births.
 Figures by race exclude New Jersey.

NOTES: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S.Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.

Table 2. Live births by age of mother, live-birth order, and race of mother: United States, 2001

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

								Age o	of mother						
Live-birth order and	All	Under			15-1	9 years									
race of mother	ages	15 years	Total	15 years	16 years	17 years	18 years	19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years		
All races	4,025,933	7,781	445,944	20,150	45,367	79,807	126,361	174,259	1,021,627	1,058,265	942,697	451,723	92,813	4,844	239
1st child	1,594,954	7,614	349,743				98,653	122,109	468,447	376,247	271,596	100,701			72
2d child	1,308,748	132	79,446	757		10,196	23,448	41,592	351,949	363,743	340,023	146,291		1,164	6
3d child	675,748	4	12,958	22	212	929	3,317	8,478	143,255	198,094	194,844	106,196		813	4
4th child	263,242	3	1,692	1	12	63	351	1,265	41,418	76,435	79,868		11,775	534	2
5th child	95,640	-	190	5	-	7	41	137	10,054	26,216	30,068	22,491	6,250	355	1
Sth child	38,436	-	17	-	-	-	5	12	2,330	9,063	12,686	10,556		200	
7th child	17,216	-	4	-	1	-	-	3	518	3,262	5,733	5,485		149	
Bth child and over	18,161	-	2	-	-	-	-	2	176	1,713	4,913	6,980		442	
Not stated	13,788	28	1,892	97	217	371	546	661	3,480	3,492	2,966	1,535	361	33	
White	3,177,626	4,095	318,563	12,584	30,510	56,098	91,284	128,087	779,529	850,343	777,294	368,816	74,856	3,936	194
1st child	1,259,698	3,997	253,947	12,040	28,173	48,612	72,711	92,411	369,796	307,860	224,370	82,773	15,931	965	59
2d child	1,051,422	76	54,299	454	2,046	6,604	15,985	29,210	272,320	299,410	284,130	119,205	20,945	985	52
3d child	535,772	3	7,860	12	116	553	1,957	5,222	102,060	158,157	163,007	88,218	15,786	648	3
4th child	200,992	3	862	1	5	32	168	656	25,885	56,866	65,028	42,484	9,428	413	23
5th child	68,913	-	91	3	-	6	22	60	5,346	17,517	22,912	17,815	4,931	286	1
6th child	26,563	-	10	-	-	-	4	6	1,116	5,328	8,939	8,180		157	-
7th child	11.487		1	-	-		-	1	217	1,693	3,766	4.056		116	
8th child and over	12.031		2	-	-		-	2	98	795	2,798	4,903		339	(
Not stated	10,748	16	1,491	74	170	291	437	519	2,691	2,717	2,344	1,182	279	27	1
Black	606,156	3,455	110,843	6,881	13,183	20,778	30,516	39,485	199,221	137,400	94,660	49,065	11,001	495	16
1st child	226,781	3,394	82,823	6 569	11,771	17 101	22,385	24,997	75,958	33,344	20,450	8,901	1,821	88	2
2d child	178.091	49	22,241	278	1.279	3.244	6.627	10.813	66.880	43.050	29,124	13,902		97	-
3d child	107,910		4,593	10	89	339	1,229	2,926	36,127	31,663	21,721	11,397	2,321	83	
4th child	50,244	-	764	-	5	29	171	559	13,931	16,234	11,117	6,497	1,623	75	;
5th child	21,954	-	91	2	-	1	18	70	4,297	7,327	5,628	3,576	986	49	
6th child	9,678	-	6	-	-		1	5	1,108	3,147	2,981	1,833	574	28	
7th child	4.616		3	-	1		-	2	270	1,351	1.532	1,134	305	21	
8th child and over	4,752		-				-	-	70	776	1,695	1,583	577	49	:
Not stated	2,130	11	322	22	38	64	85	113	580	508	412	242	50		4
					30								50		
American Indian ¹	41,872	145	7,939	357	863	1,475	2,257	2,987	14,071	9,878	6,190	2,940	674	34	f
1st child	14,639	139	6,018	342	784	1,261	1,682	1,949	5,177	1,949	944	339	69	3	
2d child	11,619	5	1,587	15	72	192	496	812	4,975	2,882	1.482	562	123	3	
3d child	7,560	-	260	-	3	14	62	181	2,653	2,465	1,436	623	119	4	
4th child	3,989		29	-	-	1	3	25	896	1,431	1,017	504	102	10	
5th child	1,896		2	-	-		-	2	213	664	564	367	85	1	
6th child	974		_	-	-		-	_	53	280	360	226	50	5	
7th child	480	-	-	-	-	-	-	-	13	97	194	133	41	2	
8th child and over	479		-	-	-		-	-	4	50	166	173	80	6	
Not stated	236	1	43	-	4	7	14	18	87	60	27	13	5	-	
Asian or Pacific Islander	200,279	86	8,599	328	811	1,456	2,304	3,700	28,806	60,644	64,553	30,902	6,282	379	28
1st child	93,836	84	6,955	317	744	1,267	1,875	2,752	17,516	33,094	25,832	8,688	1,559	98	1(
2d child	67,616	2	1,319	10	56	156	340	757	7,774	18,401	25,287	12,622		79	(
3d child	24,506	-	245	-	4	23	69	149	2,415	5,809	8,680	5,958	1,314	78	-
4th child	8,017	_	37	_	2	1	9	25	706	1,904	2,706	2,003	622	36	:
5th child	2.877	_	6	_	-	-	1	25	198	708	964	733	248	19	
Sth child	1.221		1	-	-		1	1	53	308	406	317	126	10	
7th child	633	-	1	-	-	-	-	1	18	121	241	162	81	10	
	899	-	-	-	-	-	-	-	10	92	241	321	179		
8th child and over	899 674	-	-	- 1	5	9	10							48	
Not stated	074	-	36	1	5	9	10	11	122	207	183	98	27	1	

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

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

Table 3. Fertility rates and birth rates by age of mother, live-birth order, and race of mother: United States, 2001

[Rates are live births per 1,000 women in specified age and racial group. Fertility rate computed by relating total births, regardless of age of mother, to women aged 15-44 years. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

						Age of	mother				
Live-birth order and	15-44	10.14		15-19 years			05.00	00.04	05.00	40.44	45.40
race of mother	years	10-14 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ¹
All races	66.9	0.8	45.8	25.2	75.5	109.9	121.3	95.2	41.3	8.1	0.5
1st child	26.6	0.8	36.1	22.5	55.7	50.6	43.3	27.5	9.2	1.7	0.1
2d child	21.8	0.0	8.2	2.5	16.4	38.0	41.8	34.4	13.4	2.3	0.1
3d child	11.3	*	1.3	0.2	3.0	15.5	22.8	19.7	9.7	1.7	0.1
4th child	4.4	*	0.2	0.0	0.4	4.5	8.8	8.1	4.7	1.0	0.1
5th child	1.6	*	0.0	*	0.0	1.1	3.0	3.0	2.1	0.5	0.0
6th and 7th child	0.9	*	0.0	*	0.0	0.3	1.4	1.9	1.5	0.5	0.0
8th child and over	0.3	*	*	*	*	0.0	0.2	0.5	0.6	0.3	0.0
White	66.3	0.5	41.4	21.9	69.7	106.2	124.5	98.9	41.9	8.0	0.5
1st child	26.4	0.5	33.2	10.7	52.7	50.5	45.2	28.6	9.4	1.7	0.1
				19.7							
2d child	22.0	0.0	7.1	2.0	14.4	37.2	44.0	36.3	13.6	2.2	0.1
3d child	11.2	*	1.0	0.2	2.3	13.9	23.2	20.8	10.0	1.7	0.1
4th child	4.2		0.1	0.0	0.3	3.5	8.4	8.3	4.8	1.0	0.1
5th child	1.4	*	0.0	*	0.0	0.7	2.6	2.9	2.0	0.5	0.0
6th and 7th child	0.8	*	*	*	*	0.2	1.0	1.6	1.4	0.5	0.0
8th child and over	0.3	*	*	*	*	0.0	0.1	0.4	0.6	0.3	0.0
Black	69.5	2.2	73.2	45.6	113.2	138.3	104.1	67.0	32.2	7.3	0.4
1st child	26.1	2.1	54.9	39.7	76.8	52.9	25.4	14.5	5.9	1.2	0.1
2d child	20.5	0.0	14.7	5.4	28.3	46.6	32.7	20.7	9.2	1.8	0.1
3d child	12.4	*	3.0	0.5	6.7	25.2	24.1	15.4	7.5	1.5	0.1
4th child	5.8	*	0.5	0.0	1.2	9.7	12.3	7.9	4.3	1.1	0.1
	2.5	*	0.0	*	0.1	3.0	5.6	4.0	2.4	0.7	0.0
5th child		*	0.1	*	0.1						
6th and 7th child	1.6		*	*	*	1.0	3.4	3.2	2.0	0.6	0.0
8th child and over	0.5				<u>^</u>	0.0	0.6	1.2	1.0	0.4	0.0
American Indian ²	70.8	1.2	66.0	36.7	111.9	134.0	105.4	68.0	32.5	7.4	0.4
1st child	24.9	1.1	50.3	32.7	78.0	49.6	20.9	10.4	3.8	0.8	*
2d child	19.8	*	13.3	3.8	28.1	47.7	30.9	16.4	6.2	1.4	*
3d child	12.9	*	2.2	*	5.2	25.4	26.5	15.8	6.9	1.3	*
4th child	6.8	*	0.2	*	0.6	8.6	15.4	11.2	5.6	1.1	*
5th child	3.2	*	*	*	*	2.0	7.1	6.2	4.1	0.9	*
6th and 7th child	2.5	*	*	*	*	0.6	4.0	6.1	4.0	1.0	*
8th child and over	0.8	*	*	*	*	*	0.5	1.8	1.9	0.9	*
	69.4	0.2	20.4	10.0	25.6	70.1	125.5			12.5	0.9
Asian or Pacific Islander	09.4	0.2	20.4	10.2	35.6	70.1	120.0	118.3	59.2	12.5	0.9
1st child	32.6	0.2	16.5	9.2	27.5	42.8	68.7	47.5	16.7	3.1	0.2
2d child	23.5	*	3.1	0.9	6.5	19.0	38.2	46.5	24.3	4.2	0.2
3d child	8.5	*	0.6	0.1	1.3	5.9	12.1	15.9	11.4	2.6	0.2
4th child	2.8	*	0.1	*	0.2	1.7	4.0	5.0	3.8	1.2	0.1
5th child	1.0	*	*	*	*	0.5	1.5	1.8	1.4	0.5	0.0
6th and 7th child	0.6	*	*	*	*	0.2	0.9	1.2	0.9	0.4	0.0
8th child and over	0.3	*	*	*	*	*	0.2	0.5	0.6	0.4	0.0
	0.0						0.2	0.0	0.0	0.7	0.1

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

NOTES: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Denominators for population-based rates are derived from the 1990 U.S. Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.

Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-2001, and by age and race of mother: United States, 1980-2001

[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. Population enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

1997 2.002.5 1.1 52.3 32.1 63.6 110.4 113.8 65.3 36.1 7.1 0.4 1986 2.007.0 1.2 55.4 33.8 66.1 101.4 113.1 83.3 36.1 6.4 0.3 1987 2.046.0 1.4 69.8 37.6 94.5 114.6 117.4 80.3 32.5 5.9 0.3 1982 2.045.0 1.4 60.7 37.6 94.5 114.6 117.4 80.2 32.5 5.9 0.2 1981 2.073.0 1.4 60.7 37.6 94.4 113.6 113.8 78.5 0.7 13.8 5.0 2.2 5.9 0.2 2.9 1.8 1.3.8 1.3.8 3.6.1 7.6 10.4 7.8 10.2 114.4 7.8 2.8 4.4 0.2 2.8 0.2 1.8 0.2 1.8 0.2 1.8 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.2 0.2 <							Age of	mother				
Interse years <	Year and race	fertility	10-14		15-19 years		20-24	25-29	30-34	35-39	40-44	45-49
2011 2.114.5 0.0 46.8 25.2 75.5 109.9 121.3 95.2 41.3 7.1 0.0 1989 2.058.5 0.0 45.8 27.7 77.5 112.3 114.8 84.3 7.4 7.3 0.4 1989 2.058.5 0.0 51.1 35.2 85.3 86.0 110.4 113.8 85.3 33.6 66.0 0.3 1989 2.057.0 1.2 54.8 33.8 86.0 110.4 113.9 81.5 33.7 64.0 0.3 1984 2.066.0 1.4 55.6 7.7 80.2 116.5 110.2 87.6 32.0 65.1 0.2 1986 2.064.0 1.4 55.9 37.7 78.6 107.4 117.6 77.4 28.9 5.2 0.2 0.2 1987 1.64.0 1.5 51.0 31.0 77.8 117.6 17.7 28.9 5.2 0.2 0.2 119.7 117.6 7.7 28.9 5.2 0.2 0.2 0.3 0.3		rate		Total								
2000 2.130.0 0.9 44.5 27.4 79.2 112.3 121.4 94.1 40.4 7.9 0.5 1987 2.075.6 0.9 44.5 207.6 0.9 44.5 207.6 0.9 44.5 207.6 0.9 44.5 207.6 0.9 44.5 207.6 0.9 44.5 207.6 0.9 44.5 207.6 0.9 44.5 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.6 0.0 207.7 84.4 112.6 117.6 107.6 207.8 107.6 107.7 107.6 107.7 107.6 107.7 107.6 107.6 107.7 107.6 107.7 107.												
1999 20750 0.9 49.6 28.7 0.0.3 111.0 117.8 89.6 89.3 7.4 0.4 1997 20655 1.0 51.1 30.1 80.3 80.3 7.4 0.4 1996 20620 1.2 54.4 33.8 86.6 0.3 1998 20180 1.3 56.8 36.0 80.1 10.8 81.9 33.7 6.6 0.3 1998 20180 1.4 50.7 37.8 81.1 11.1 11.9 81.9 33.7 6.4 0.3 1992 20650 1.4 60.7 37.8 84.4 117.5 118.2 74.8 22.0 5.2 0.2 13.5 50.0 31.7 74.8 12.8 2.4 4.4 0.2 14.4 57.3 35.6 79.9 11.0 74.4 29.9 5.2 0.2 19.9 14.4 2.4 4.4 0.2 19.9 1.4 0.2 3.9 0.2 19.9 1.4 0.2 1.4 0.2 3.9 0.2 19.9												
1996 2.065.5 1.0 51.1 20.4 82.0 82.0 87.4 7.3 0.4 1995 2.025.5 1.2 52.4 82.0 88.0 112.2 85.3 85.1 7.7 0.4 1995 2.0010 1.2 56.6 88.0 100.4 112.2 85.5 33.7 6.4 0.3 1994 2.036.0 1.4 55.9 37.6 84.2 112.6 115.5 30.0 80.3 20.4 6.0 0.3 1995 2.0710.0 1.4 65.9 37.6 84.4 115.5 110.2 80.8 20.0 6.0 0.3 91.7 5.5 0.2 20.0 1.7 5.5 0.2 20.1 1.4 60.1 3.5 70.0 11.6 71.8 20.1 1.5 1.6 1.2 20.1 1.5 1.1 50.0 31.7 78.6 107.4 10.8 110.7 60.0 22.0 3.0 0.2 1.6 1.2 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 </td <td></td>												
1986 2.207.0 1.2 54.4 33.6 86.0 110.4 113.1 83.9 83.3 6.8 0.3 1983 2.2016.0 1.3 58.8 36.0 80.5 112.2 82.5 31.7 6.8 0.3 1983 2.2066.0 1.4 65.7 37.8 92.1 112.5 115.5 80.8 32.2 6.4 0.3 1980 2.2065.0 1.4 65.7 37.8 92.4 115.7 112.2 75.8 22.9 5.2 0.2 1989 2.014.0 1.4 65.7 33.6 79.9 111.6 7.4 22.9 5.2 0.2 1987 1.47.0 1.3 55.0 33.1 77.8 10.63 111.0 C61.1 24.0 4.1 0.2 1983 1.484.0 1.2 55.0 33.0 77.4 10.65 10.7 22.9 3.9 0.2 1984 1.20.5 2.2 3.0 0.2 3.0 0.2 3.0 0.2 3.0 0.2 3.0 0.2 <t< td=""><td>1998</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	1998											
1995	1997											
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1992 2,065.0 1.4 60.7 378 94.5 114.6 117.4 80.2 32.5 5.9 0.2 1991 2,073.0 1.4 65.3 36.7 84.6 115.5 118.2 67.8 32.7 5.5 0.2 1989 2,070.4 1.4 67.3 36.4 115.5 118.2 67.8 28.7 28.5 0.2 28.4 4.4 0.2 1987 1.872.0 1.3 50.6 31.7 78.5 107.9 111.6 7.1 28.4 4.4 0.2 1984 * 1.867.6 1.2 50.6 31.0 77.4 106.8 108.7 78.1 108.7 64.9 22.0 3.9 0.2 1984 * 1.789.6 1.1 52.4 32.3 78.0 111.8 11.1 64.1 21.0 3.9 0.2 3.9 0.2 3.9 0.2 3.9 0.2 3.9 0.2 3.9 0.2 3.9 0.2 3.9 0.2 3.9 0.2 3.9 0.2 3.9 0.2 3.9 <td></td>												
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1988												
1987 1.872.0 1.3 50.6 31.7 78.5 107.4 109.8 70.1 24.4 4.1 0.2 1986.4 1.490.5 1.2 50.0 31.0 77.4 106.8 100.7 67.0 24.0 4.4 4.1 0.2 3.9 0.2 1.9 1.1 0.5 0.5 3.9 0.2 0.2 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0												
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1978 ³											
$ \begin{array}{c} 1975 \stackrel{3}{3} & 1,774.0 \\ 1974 \stackrel{3}{3} & 1,635.0 \\ 1873 \stackrel{3}{3} & 1,675.0 \\ 1873 \stackrel{3}{3} & 2,010.5 \\ 11 & 61.6 \\ 2000 & 1.2 \\ 2480.0 \\ 112 \\ 2480.0 \\ 112 \\ 68.3 \\ 81.8 \\ 114.7 \\ 1874 \stackrel{1}{4} & 2,480.0 \\ 112 \\ 2480.0 \\ 2000 & 2,113.5 \\ 2000 & 2,113.5 \\ 2000 & 2,113.5 \\ 2000 & 2,113.5 \\ 2000 & 2,113.5 \\ 2000 & 2,113.5 \\ 2000 & 2,113.5 \\ 2000 & 0.7 \\ 40.3 \\ 2000 & 2,200.0 \\ 2000 & 0.7 \\ 40.3 \\ 40.3 \\ 2000 & 2,200.0 \\ 2000 & 0.7 \\ 40.3 \\ 40.3 \\ 2000 & 0.8 \\ 50.1 \\ 1996 & 2,005.5 \\ 1996 & 0.8 \\ 51.1 \\ 30.7 \\ 81.1 \\ 30.7 \\ 81.1 \\ 30.3 \\ 82.1 \\ 106.2 \\ 116.8 \\ 81.1 \\ 83.5 \\ 108.2 \\ 118.4 \\ 81.4 \\ 82.2 \\ 57. \\ 108.2 \\ 118.4 \\ 81.4 \\ 82.2 \\ 57. \\ 0.2 \\ 1986 \\ 1197 & 77.9 \\ 1982 & 1,982.5 \\ 0.8 \\ 51.1 \\ 30.1 \\ 81.3 \\ 102.1 \\ 106.3 \\ 118.4 \\ 81.4 \\ 82.2 \\ 57. \\ 0.2 \\ 1986 & 1,176.0 \\ 0.6 \\ 42.5 \\ 73.2 \\ 118.4 \\ 81.4 \\ 82.2 \\ 57. \\ 0.2 \\ 1986 & 1,1776.0 \\ 0.6 \\ 42.3 \\ 23.8 \\ 70.1 \\ 100.7 \\ 110.8 \\ 70.9 \\ 23.9 \\ 3.8 \\ 0.2 \\ 1986 & 1,1776.0 \\ 0.6 \\ 42.3 \\ 23.8 \\ 70.1 \\ 102.7 \\ 100.8 \\ 67.3 \\ 22.9 \\ 3.8 \\ 0.2 \\ 118.4 \\ 81.4 \\ 82.5 \\ 73.2 \\ 111.1 \\ 112.3 \\ 81.0 \\ 22. \\ 3.8 \\ 0.2 \\ 118.4 \\ 81.4 \\ 22.5 \\ 7. \\ 0.2 \\ 118.4 \\ 81.4 \\ 82.5 \\ 73.2 \\ 118.4 \\ 81.4 \\ 82.5 \\ 73. \\ 22.9 \\ 4.1 \\ 0.2 \\ 1986 \\ 11776 \\ 0.6 \\ 42.5 \\ 73.2 \\ 111.1 \\ 112.3 \\ 81.0 \\ 112.3 \\ 81.0 \\ 22.9 \\ 3.8 \\ 0.2 \\ 118.4 \\ 81.4 \\ 22.5 \\ 7. \\ 22. \\ 3.8 \\ 0.2 \\ 118.4 \\ 81.4 \\ 102.7 \\ 108.6 \\ 118.4 \\ 81.4 \\ 22. \\ 57. \\ 22. \\ 3.8 \\ 0.2 \\ 118.4 \\ 81.4 \\ 22. \\ 57. \\ 0.2 \\ 22. \\ 3.8 \\ 0.2 \\ 118.4 \\ 81.4 \\ 12.2 \\ 118.4 \\ 81.4 \\ 12.2 \\ 118.4 \\ 81.4 \\ $	1977 ³											
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1996	2,005.5	0.8	48.1	28.4	78.4	107.2	116.1	86.3	35.6	6.7	0.3
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1989	1,931.0	0.7	47.9	28.1	72.9	106.9	117.8	78.1	29.7	4.9	
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Black 2001 2,123.5 2.2 73.2 45.6 113.2 138.3 104.1 67.0 32.2 7.3 0.4 2000 2,193.0 2.4 79.4 50.4 121.3 144.2 105.3 67.5 32.2 7.2 0.4 1999 2,146.5 2.6 81.0 52.0 122.8 141.7 101.9 64.5 30.8 6.5 0.3 1998 2,171.0 2.9 85.4 56.8 126.9 141.9 101.8 64.7 30.5 6.7 0.3 1996 2,144.0 3.6 91.4 64.7 132.5 136.8 98.2 63.3 29.1 6.1 0.3 1995 2,175.0 4.2 96.1 69.7 137.1 137.1 98.6 64.0 28.7 6.0 0.3 1994 2,300.0 4.6 104.5 76.3 148.3 146.0 104.0 65.8 28.9 5.9 0.3 <t< td=""><td>1981 ³</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	1981 ³											
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1980 9	1,773.0	0.6	45.4	25.5	73.2	111.1	113.8	61.2	18.8	3.5	0.2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0 100 5	2.2	72.0	15 6	112.0	100.0	104.1	67.0	20.0	7.0	0.4
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1990											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1989	2,432.5	5.1	111.5	81.9	151.9	156.8	114.4	66.3	26.7	5.4	0.3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1988											
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1984 ³											
1982 ³	1983 ³	2,066.0										
1981 ³ 2,117.5 4.0 94.5 69.3 131.0 136.5 102.3 57.4 23.1 5.4 0.3 1980 ³	1982 ³	2,106.5	4.0	94.3	69.7		135.4	101.3	57.5	23.3	5.1	0.4
1980 2,176.5 4.3 97.8 72.5 135.1 140.0 103.9 59.9 23.5 5.6 0.3	1981 ³											
	1980 °	2,176.5	4.3	97.8	72.5	135.1	140.0	103.9	59.9	23.5	5.6	0.3

Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-2001, and by age and race of mother: United States, 1980-2001 -- 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. Population enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

						Age of	mother				
Year and race	Total fertility	10-14		15-19 years		20-24	25-29	30-34	25.20	40-44	45-49
	rate	years	Total	15-17 years	18-19 years	years	years	years	35-39 years	years	years ¹
American Indian ⁵											
2001	2,074.5	1.2	66.0	36.7	111.9	134.0	105.4	68.0	32.5	7.4	0.4
2000	2,100.5	1.3	67.8	39.6	113.1	135.6	106.9	68.3	32.5	7.3	0.4
1999	2,056.5	1.6	67.8	41.4	110.6	137.1	102.4	64.3	30.7	7.1	0.3
1998	2,090.5	1.6	72.1	44.4	118.4	139.3	102.2	66.3	30.2	6.4	*
1997	2,047.5	1.7	71.8	45.3	117.6	134.9	100.8	64.2	29.3	6.4	0.4
1996	2,030.0	1.7	73.9	46.4	122.3	133.9	98.5	63.2	28.5	6.3	÷
1995	2,033.5	1.8	78.0	47.8	130.7	132.5	98.4	62.2	27.7	6.1	0.4
1994 1993	2,080.0 2,141.0	1.9 1.4	80.8 83.1	51.3 53.7	130.3 130.7	134.2 139.8	104.1 107.6	61.2 62.8	27.5 27.6	5.9 5.9	0.4 *
1993	2,141.0	1.4	83.1 84.4	53.7 53.8	130.7	139.8	107.6	62.8 63.0	27.6	5.9 6.1	*
1992	2,190.0	1.6	85.0	52.7	132.0	145.5	109.4	61.9	20.0	5.9	0.4
1990	2,183.0	1.6	81.1	48.5	129.3	148.7	110.3	61.5	27.5	5.9	*
1989	2.247.0	1.5	82.7	51.6	128.9	152.4	114.2	64.8	27.4	6.4	*
1988	2.153.5	1.7	77.5	49.7	121.1	145.2	110.9	64.5	25.6	5.3	*
1987	2,099.0	1.7	77.2	48.8	122.2	140.0	107.9	63.0	24.4	5.6	*
1986	2,082.0	1.8	78.1	48.7	125.3	138.8	107.9	60.7	23.8	5.3	*
1985	2,128.0	1.7	79.2	47.7	124.1	139.1	109.6	62.6	27.4	6.0	*
1984 ³	2,136.0	1.7	81.5	50.7	124.7	142.4	109.2	60.5	26.3	5.6	*
1983 ³	2,180.5	1.9	84.2	55.2	121.4	145.5	113.7	58.9	25.5	6.4	*
1982 ³	2,213.0	1.4	83.5	52.6	127.6	148.1	115.8	60.9	26.9	6.0	*
1981 ³	2,090.0	2.1	78.4	49.7	121.5	141.2	105.6	58.9	25.2	6.6	*
1980 ³	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	2,035.5	0.0	00.4	10.0	05.0	70.1	105 5	110.0	50.0	10 5	0.0
2001	2,035.5 2,072.5	0.2 0.3	20.4 21.6	10.2 11.5	35.6 37.0	70.1 72.0	125.5 125.8	118.3 120.8	59.2 60.4	12.5 12.7	0.9 0.9
1999	2,072.5	0.3	21.0	12.3	37.0	72.0	125.6	120.8	54.6	12.7	0.9
1998	1,867.5	0.3	23.1	13.8	38.3	68.8	110.4	105.1	52.8	12.0	0.9
1997	1,925.5	0.5	23.7	14.3	39.3	70.5	113.2	110.3	54.1	11.9	0.9
1996	1,907.5	0.6	24.6	14.9	40.4	70.7	111.2	109.2	52.2	12.2	0.8
1995	1,924.0	0.7	26.1	15.4	43.4	72.4	113.4	106.9	52.4	12.1	0.8
1994	1,943.0	0.7	27.1	16.1	44.1	73.1	118.6	105.2	51.3	11.6	1.0
1993	1,935.5	0.6	27.0	16.0	43.3	73.3	119.9	103.9	50.2	11.3	0.9
1992	1,942.0	0.7	26.6	15.2	43.1	74.6	121.0	103.0	50.6	11.0	0.9
1991	1,956.0	0.8	27.4	16.1	43.1	75.2	123.2	103.3	49.0	11.2	1.1
1990	2,002.5	0.7	26.4	16.0	40.2	79.2	126.3	106.5	49.6	10.7	1.1
1989	1,947.5	0.6	25.6	15.0	40.4	78.8	124.0	102.3	47.0	10.2	1.0
1988	1,983.5	0.6	24.2	13.6	39.6	80.7	128.0	104.4	47.5	10.3	1.0
1987	1,886.0	0.6	22.4	12.6	37.0	79.7	122.7	97.0	44.2	9.5	1.1
1986 1985	1,836.0 1,885.0	0.5 0.4	22.8 23.8	12.1 12.5	38.8 40.8	79.2 83.6	119.9 123.0	92.6 93.6	41.9 42.7	9.3 8.7	1.0 1.2
1985 1984 ³	1,885.0	0.4 0.5	23.8	12.5	40.8 40.7	83.6 86.7	123.0	93.6 92.4	42.7 40.6	8.7 8.7	1.2
1983 ³	1,892.0	0.5	24.2	12.0	40.7	94.0	124.3	92.4 93.3	40.8 39.4	8.2	1.0
1982 ³	2,015.5	0.5	20.1	14.0	50.8	94.0 98.9	130.9	93.3	39.4	8.8	1.0
1981 ³	1,976.0	0.4	28.5	13.4	49.5	96.4	129.1	93.4	38.0	8.6	0.9
1980 ³	1.953.5	0.3	26.2	12.0	46.2	93.3	127.4	96.0	38.3	8.5	0.7
	.,	0.0	-0.2	.2.0	10.2	50.0	/	50.0	55.5	0.0	0.7

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

NOTES: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S. Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.

Table 5. Fertility rates and birth rates by live-birth order and race of mother: United States, 1980-2001

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

	Fertility				Live-birth order			
Year and race of mother	rate	1	2	3	4	5	6 and 7	8 and over
All races ¹								
2001	66.9	26.6	21.8	11.3	4.4	1.6	0.9	0.3
2000	67.5	27.1	21.9	11.3	4.3	1.6	0.9	0.3
1999	65.9	26.6	21.5	10.9	4.2	1.5	0.9	0.3
1998		26.4	21.4	10.8	4.2	1.5	0.9	0.3
1997		26.5	21.1	10.6	4.1	1.5	0.9	0.3
1996		26.8	21.1	10.5	4.1	1.5	0.9	0.3
1995		27.3	21.1	10.5	4.0	1.5	0.9	0.3
1994 1993		27.5 27.5	21.5 21.9	10.7 11.0	4.2 4.3	1.6 1.6	1.0 1.0	0.3 0.3
1992		27.8	22.3	11.3	4.4	1.7	1.0	0.3
1991		28.3	22.4	11.4	4.5	1.7	1.0	0.3
1990		29.0	22.8	11.7	4.5	1.7	1.0	0.3
1989		28.4	22.4	11.3	4.3	1.6	0.9	0.3
1988	67.3	27.6	22.0	10.9	4.1	1.5	0.9	0.3
1987	65.8	27.2	21.6	10.5	3.9	1.4	0.8	0.3
1986		27.2	21.6	10.3	3.8	1.4	0.8	0.3
1985		27.6	22.0	10.4	3.8	1.4	0.8	0.3
1984 ²	65.5	27.4	21.7	10.1	3.7	1.4	0.9	0.3
1983 ²	65.7	27.8	21.5	10.1	3.7	1.4	0.9	0.3
1982 ²	67.3 67.3	28.6 29.0	22.0 21.6	10.2 10.1	3.8 3.8	1.4 1.5	0.9 0.9	0.3 0.4
1981 ² 1980 ²	68.4	29.0	21.8	10.3	3.9	1.5	1.0	0.4
White	00.0	00.4	<u> </u>	44.0	1.0			
2001		26.4	22.0	11.2	4.2	1.4	0.8	0.3
2000 1999		26.8 26.4	21.9 21.6	11.2 10.8	4.1 4.0	1.4 1.4	0.8 0.8	0.3 0.2
1998		26.1	21.5	10.7	3.9	1.4	0.8	0.2
1997		26.2	21.2	10.4	3.8	1.3	0.8	0.2
1996		26.6	21.2	10.4	3.8	1.3	0.8	0.2
1995		26.9	21.1	10.3	3.8	1.3	0.7	0.2
1994		27.0	21.4	10.4	3.8	1.3	0.8	0.2
1993	65.4	27.0	21.7	10.5	3.9	1.4	0.8	0.2
1992	66.5	27.3	22.0	10.8	4.0	1.4	0.8	0.2
1991		27.8	22.0	10.8	4.0	1.4	0.8	0.2
1990		28.4	22.4	11.1	4.0	1.4	0.8	0.2
1989		27.6	21.9	10.7	3.8	1.3	0.7	0.2
1988		26.8	21.6	10.4	3.6	1.2	0.7	0.2
1987 1986		26.5 26.6	21.3 21.3	10.0 9.8	3.5 3.4	1.2 1.2	0.7 0.7	0.2 0.2
1985		20.0	21.3	9.8 9.9	3.4	1.2	0.7	0.2
1985		26.8	21.0	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		28.4	21.1	9.5	3.4	1.2	0.8	0.3
1980 ²		28.8	21.3	9.6	3.4	1.3	0.8	0.3
Black 2001	69.5	26.1	20.5	12.4	5.8	2.5	1.6	0.5
2001		26.9	20.5	12.4	5.9	2.5	1.0	0.6
1999		26.5	20.9	12.0	5.7	2.5	1.7	0.6
1998		27.0	21.1	12.3	5.7	2.6	1.7	0.6
1997		27.3	20.7	12.1	5.7	2.5	1.8	0.6
1996		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		29.8	22.2	13.1	6.3	2.9	2.0	0.6
1993		30.2	23.4	14.1	6.9	3.1	2.2	0.7
1992		30.6	24.3	15.0	7.2	3.3	2.2	0.6
1991		31.5	25.0	15.4	7.4	3.3	2.1	0.6
1990		32.4	25.6	15.6	7.4	3.2	2.0	0.6
1989		32.9	25.4	15.3	7.1	3.0	1.9	0.6
1988 1987		31.8 31.2	24.6 23.8	14.4 13.9	6.6 6.3	2.8 2.7	1.8 1.7	0.5 0.5
1987		31.0	23.6	13.5	6.1	2.7	1.7	0.5
1985		31.0	23.4	13.4	6.1	2.6	1.7	0.5
1985		30.9	23.4	13.2	6.0	2.6	1.7	0.6
1983 ²	78.7	31.1	23.1	13.2	6.1	2.0	1.8	0.6
1982 ²	80.9	31.7	23.9	13.8	6.3	2.7	1.8	0.7
	2010							
1981 ²	82.0	32.3	24.2	13.7	6.3	2.8	1.9	0.8

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

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S. Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; 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, 1989-2001

[Birth rates are live births per 1,000 population in specified group. Fertility rates are live births per 1,000 women aged 15-44 years in specified group]

	-			Hispa	anic			1	Non-Hispanic	
Measure and year	All origins ¹	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
Number										
2001	4,025,933	851,851	611,000	57,568	14,017	121,365	47,901	3,149,572	2,326,578	589,917
2000	4,058,814	815,868	581,915	58,124	13,429	113,344	49,056	3,199,994	2,362,968	604,346
1999	3,959,417	764,339	540,674	57,138	13,088	103,307	50,132	3,147,580	2,346,450	588,981
1998	3,941,553	734,661	516,011	57,349	13,226	98,226	49,849	3,158,975	2,361,462	593,127
1997	3,880,894	709,767	499,024	55,450	12,887	97,405	45,001	3,115,174	2,333,363	581,431
1996	3,891,494	701,339	489,666	54,863	12,613	97,888	46,309	3,133,484	2,358,989	578,099
1995	3,899,589	679,768	469,615	54,824	12,473	94,996	47,860	3,160,495	2,382,638	587,781
1994	3,952,767	665,026	454,536	57,240	11,889	93,485	47,876	3,245,115	2,438,855	619,198
1993	4,000,240	654,418	443,733	58,102	11,916	92,371	48,296	3,295,345	2,472,031	641,273
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 ⁵	3,903,012	532,249	327,233	56,229	10,842	72,443	65,502	3,297,493	2,526,367	611,269
Birth rate										
2001	14.5	25.4						13.0	11.9	17.5
2000 ⁶	14.7	25.1	27.1	20.2	10.4	23.9		13.4	12.2	18.1
1999 ⁶	14.5	24.4	26.4	19.4	9.7	23.4		13.2	12.2	17.9
1998 ⁶	14.6	24.3	26.4	19.0	10.0	23.2		13.4	12.3	18.2
1997 ⁶	14.5	24.2	26.8	18.1	10.1	22.4		13.3	12.2	18.1
1996 ⁶	14.7	24.8	27.4	17.9	10.7	23.4		13.5	12.4	18.3
1995 ⁶	14.8	25.2	26.9	19.7	11.0	25.3		13.7	12.6	18.8
1994 ⁶	15.2	25.5	27.0	21.4	10.8	25.7		14.0	12.8	20.0
1994 ⁶ 1993 ⁶ 1992 ⁶ , ⁷	15.5	26.0	27.4	21.9	10.5	26.9		14.4	13.1	21.1
1992 °, 7	15.9	26.5	27.8	23.2	10.1	27.9		14.8	13.5	21.9
1991 0, 7	16.3	26.7	29.2	21.0	10.1	26.5		15.2	13.9	22.5
1990 4, 6	16.7	26.7	28.7	21.6	10.9	27.5		15.7	14.4	23.0
1989 5, 6	16.3	26.2	25.7	23.7	10.0	28.3		15.4	14.2	22.8
Fertility rate	~~~~	407.0								74.0
2001	66.9	107.6						60.8	57.6	71.6
2000 ⁶	67.5	105.9	115.1	84.3	57.3	94.3		61.8	58.5	73.7
1999 6	65.9	102.0	111.6	77.7	51.2	92.6		60.7	57.8	72.2
1998 ⁶	65.6	101.1	112.1	75.5	50.1	90.2		60.7	57.7	73.0
1997 ⁶	65.0	102.8	116.6	71.7	57.4	87.6		60.1	57.0	72.4
1996 ⁶	65.3	104.9	119.3	71.3	58.9	90.2		60.3	57.3	72.5
1995 6	65.6	105.0	117.0	75.7	55.1	94.5		60.8	57.6	74.5
1994 ⁶	66.7	105.6	115.4	81.9	55.9	97.7		62.0	58.3	79.0
1994 ⁶ 1993 ⁶ 1992 ^{6, 7}	67.6	106.9	114.8	82.5	55.5	105.0		63.1	59.0	82.7
1992 9, 7	68.9	108.6	116.0	89.9	50.3	107.0		64.4	60.2	85.5
1991 ^{6, 7}	69.6	108.1	121.6	80.9	49.1	99.3		65.4	61.0	87.6
1990 ^{4, 6} 1989 ^{5, 6}	71.0	107.7	118.9	82.9	52.6	102.7		67.1	62.8	89.0
1989 ^{5, 6}	69.2	104.9	106.6	86.6	49.8	95.8		65.7	60.5	84.8

Data not available. 1

2

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

3 4

5 6

Excludes data for New Hampshire, which did not report Hispanic origin. 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. Rates for the Central and South American population includes other and unknown Hispanic. Rates are estimated for the United States based on birth data for 49 States and the District of Columbia. Births for New Hampshire that did not report Hispanic origin, are included in the rates for non-Hispanic women; see Technical notes. 7

NOTES: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S.Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; 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, 2001

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

							Aç	ge of mothe	er						
Live-birth order and origin of mother	All ages	Under			15-19 y	/ears			20-24	25-29	30-34	35-39	40-44	45-49	50-54
engin et meuter	agee	15 years	Total	15 years	16 years	17 years	18 years	19 years	years	years	years	years	years	years	years
Hispanic															
Total	851,851	2,555	130,007	6,936	15,165	25,023	36,298	46,585	258,431	227,910	150,352	67,952	13,956	668	20
1st child	312,530	2,493	98,662 25,612	6,544	13,640	20,629	26,920	30,929	111,378	59,595	28,502	10,048	1,760	84	8
2d child 3d child	260,316 160,289	46 1	4,226	319 11	1,311 84	3,799 370	7,868 1,141	12,315 2,620	92,641 38,772	78,564 55,331	44,356 40,904	16,368 17,833	2,620 3,103	105 117	4 2
4th child	69,904	2	531	1	5	22	101	402	11,126	22,573	21,576	11,531	2,474	91	-
5th child	26,556	-	62	2	-	5	12	43	2,559	7,460	8,697	6,070	1,618	89	1
6th child 7th child	10,381 4,378		3				1	2	571 119	2,323 792	3,415 1,400	3,026 1,457	985 569	55 40	3
8th child and over	3,703	-	1	-	-	-	-	1	49	391	981	1,405	789	86	1
Not stated	3,794	13	910	59	125	198	255	273	1,216	881	521	214	38	1	-
Mexican	611,000	1,920	98,806	5,312	11,660	19,126	27,565	35,143	192,167	165,177	101,213	42,707	8,600	401	9
1st child	216,639	1,870	74,306	4,996	10,418	15,642	20,215	23,035	80,215	38,807	15,666	4,940	800	32	3
2d child	183,757	35	19,910	250 9	1,054	2,970	6,139	9,497	70,170	56,692	27,268	8,389	1,254	38 53	1
3d child 4th child	118,713 53,632	1	3,299 407	9	66 5	299 20	888 78	2,037 303	29,769 8,436	42,739 17,745	29,725 16,823	11,393 8,487	1,734 1,671	53 62	-
5th child	20,598	-	44	2	-	4	8	30	1,998	5,776	6,786	4,670	1,252	71	1
6th child	8,080	-	3	-	-	-	1	2	429	1,779	2,652	2,402	769	43	3
7th child	3,494	-	-	-	-	-	-	-	92	618	1,124	1,177	452	31	-
8th child and over Not stated	2,932 3,155	- 13	1 836	- 54	- 117	- 191	- 236	1 238	38 1,020	296 725	784 385	1,095 154	646 22	71	1
Puerto Rican	57,568	257	10,799	598	1,262	2,161	3,006	3,772	18,669	13,426	9,275	4,254	850	37	1
	22,391	253	8,279	571		1,830	2,262	2,456	7,278	3,477	2,139	811	145	8	1
1st child 2d child	17,916	253	2,064	25	1,160 94	305	629	1,011	6,747	4,506	3,104	1,263	219	9	-
3d child	10,026	-	381	-	5	25	102	249	3,187	3,116	2,131	1,023	182	ő	-
4th child	4,184	-	45	-	-	-	4	41	1,067	1,379	973	570	143	7	-
5th child	1,690	-	8	-	-	-	3	5	255	572	510	281	62	2	-
6th child	704	-	-	-	-	-	-	-	75	235	215	135	44	-	-
7th child 8th child and over	259 268	-	-	-	-	-	-	-	11 7	76 43	97 82	58 100	17 32	- 4	-
Not stated	130	-	22	2	3	- 1	6	10	42	43	24	13	6	4	-
Cuban	14,017	18	1,031	53	109	201	315	353	2,408	4,047	3,821	2,253	409	23	7
1st child	6,269	18	850	51	99	179	253	268	1,405	1,948	1,337	594	109	6	2
2d child	5,123	-	162	2	10	20	55	75	743	1,504	1,654	918	131	8	3
3d child	1,867 498	-	16	-	-	2	7	7	192 51	447 94	598	511 140	97	5	1
4th child 5th child	490	-	2	-	-	-		2	13	94 29	166 44	51	43 14	2	-
6th child	52	-	-	-	-	-	-	-	3	18	12	16	2	1	-
7th child	21	-	-	-	-	-	-	-	1	2	4	8	5	-	1
8th child and over	28	-	-	-	-	-	-	-	-	2	3	14	8	1	-
Not stated	8	-	1	-	-	-	-	1	-	3	3	1	-	-	-
Central and South American	121,365	166	11,271	483	1,136	1,971	3,169	4,512	30,715	33,621	27,488	14,641	3,279	181	3
1st child	48,307	162	9,087	464	1,060	1,690	2,546	3,327	16,285	12,021	7,218	2,925	575	32	2
2d child	38,628	3	1,872	16	67	255	553	981	9,927	11,880	9,526	4,563	813	44	-
3d child	21,202	-	249	-	8	22	59	160	3,344	6,375	6,436	3,858	889	50	1
4th child	8,163	1	39	-	-	1	8	30	877	2,268	2,687	1,785	491	15	-
5th child	2,895 1,133	-	5		-	1	1	3	147 44	708 199	978 391	814 363	230 126	13 10	-
6th child 7th child	416		-	-	-	-	-	-	44 6	53	109	163	77	8	-
8th child and over	320	-	-	-	-	-	-	-	2	32	69	135	73	9	-
Not stated	301	-	19	3	1	2	2	11	83	85	74	35	5	-	-
Other and unknown Hispanic	47,901	194	8,100	490	998	1,564	2,243	2,805	14,472	11,639	8,555	4,097	818	26	-
1st child		190	6,140	462	903		1,644			3,342	2,142	778	131	6	
2d child	18,924 14,892	190	1,604	462	903 86	1,288 249	492	1,843 751	6,195 5,054	3,342	2,142	1,235	203	6	-
3d child	8,481	-	281	2	5	22	85	167	2,280	2,654	2,014	1,048	201	3	-
4th child	3,427	-	38	-	-	1	11	26	695	1,087	927	549	126	5	-
5th child	1,222	-	5	-	-	-	-	5	146	375	379	254	60	3	-
6th child	412		-	-	-	-	-		20	92	145	110	44	1	-
7th child 8th child and over	188 155	-	-	-	-	-	-		9 2	43 18	66 43	51 61	18 30	1	-
Not stated	200	-	32	-	4	4	11	13	71	46	35	11	5	-	-
	200	-	02	-	7	7		10	11	-0	00		5	-	-

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, 2001 -- Con.

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

							A	ge of mothe	er						
Live-birth order and	All	Under			15-19	years			20-24	25-29	30-34	35-39	40.44	45 40	50 54
origin of mother	ages	15 years	Total	15 years	16 years	17 years	18 years	19 years	20-24 years	years	years	years	40-44 years	45-49 years	50-54 years
Non-Hispanic															
Total ¹	3,149,572	5,184	313,448	13,113	29,933	54,336	89,357	126,709	757,692	824,186	786,198	380,511	78,046	4,096	211
1st child 2d child 3d child		5,083 84 3	249,213 53,416 8.645	12,631 433 11	27,602 2,119 127	47,244 6,343 550	71,205 15,458 2,153	90,531 29,063 5.804	354,583 257,558 103.716	314,387 283,276 141,698	241,264 293,636 152.820	89,833 129,021 87.675	17,427 23,131 16,273	1,052 1,044 683	57
4th child 5th child 6th child	191,748 68,473 27,780	1	1,149 126 14	3	7	41 2	247 29 4	854 92 10	30,063 7,437 1,748	53,439 18,597 6,683	57,795 21,171 9,171	39,631 16,276 7,452	9,210 4,591 2,565	433 262 142	27 13 5
7th child 8th child and over Not stated	12,712 14,290 8,888	- - 13	4 1 880	- - 35	1 - 77	- 156	- 261	3 1 351	397 125 2,065	2,453 1,304 2,349	4,285 3,891 2,165	3,987 5,521 1,115	1,478 3,093 278	108 350 22	5
White	2,326,578	1,581	190,161	5,765	15,538	31,409	55,409	82,040	523,027	622,361	625,435	300,007	60,614	3,224	168
1st child 2d child	947,986 791,301 375,808 131,309 42,452 16,209 7,106 8,289 6,118	1,546 30 2 1 - - 2	156,628 28,965 3,667 340 30 7 7 1 1 522	5,615 135 1 - 1 - 1 - 13	14,717 747 35 - - - 39	28,281 2,845 187 10 1 - - 85	46,156 8,191 822 68 10 3 - 159	61,859 17,047 2,622 262 18 4 1 1 226	259,434 180,270 63,605 14,871 2,810 556 99 48 1,334	247,834 221,033 102,998 34,417 10,111 3,017 912 408 1,631	195,157 239,197 122,053 43,486 14,237 5,541 2,359 1,809 1,596	72,390 102,629 70,288 30,921 11,743 5,146 2,593 3,489 808	14,077 18,257 12,645 6,936 3,312 1,836 1,067 2,278 206	869 872 521 316 197 102 75 254 18	48 29 21 12 4 - 2
Black	589,917	3,401	108,252	6,735	12,879	20,293	29,794	38,551	194,391	133,491	91,710	47,494	10,691	473	14
1st child 2d child	220,101 173,273 105,184 49,105 21,540 9,500 4,549 4,696 1,969	3,341 48 1 - - - 11	80,779 21,815 4,520 744 89 6 3 -	6,426 275 10 - 2 - 22	11,499 1,254 87 5 - 1 - 33	16,687 3,187 329 29 1 - -	21,805 6,510 1,214 167 18 1 - - 79	24,362 10,589 2,880 543 68 5 2 - 102	73,628 65,374 35,450 13,722 4,247 1,091 268 69 542	32,159 41,663 30,861 15,918 7,213 3,108 1,333 762 474	19,764 28,157 21,021 10,773 5,497 2,918 1,511 1,685 384	8,581 13,451 10,998 6,297 3,489 1,793 1,113 1,561 211	1,762 2,671 2,250 1,575 958 557 300 570 48	85 91 80 73 47 26 21 47 3	3 3 - 1 - 2

Quantity zero.
 Includes races other than white and black.

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

Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 2001

[Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15-44 years. Birth rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

						Age of	f mother				
Live-birth order and	15-44	10.14		15-19 years		00.04	05.00	20.04	05.00	40.44	45 40
origin of mother	years	10-14 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ¹
Hispanic											
Total	107.6	1.7	92.5	57.0	143.5	186.0	174.9	113.8	51.5	11.9	0.7
1st child	39.7	1.7	70.7	49.7	100.8	80.5	45.9	21.6	7.6	1.5	0.1
2d child	33.0	0.0	18.4	6.6	35.2	67.0	60.5	33.7	12.4	2.2	0.1
3d child	20.3	*	3.0	0.6	6.6	28.0	42.6	31.1	13.5	2.6	0.1
th child	8.9	*	0.4	0.0	0.9	8.0	17.4	16.4	8.8	2.1	0.1
5th child	3.4	*	0.0	*	0.0	1.9	5.7	6.6	4.6	1.4	0.1
Sth and 7th child	1.9	*	0.0	*	0.1	0.5	2.4	3.7	3.4	1.4	0.1
		*	*	*	*						
Bth child and over	0.5	-				0.0	0.3	0.7	1.1	0.7	0.1
Non-Hispanic ²											
Total ³	60.8	0.6	37.9	19.9	64.0	96.5	111.9	92.3	39.9	7.6	0.5
1st child	24.6	0.6	30.2	17.9	48.0	45.3	42.8	28.4	9.4	1.7	0.1
2d child	20.1	0.0	6.5	1.8	13.2	32.9	38.5	34.6	13.5	2.3	0.1
3d child	9.9	*	1.1	0.1	2.4	13.3	19.3	18.0	9.2	1.6	0.1
4th child	3.7	*	0.1	0.0	0.3	3.8	7.3	6.8	4.2	0.9	0.1
5th child	1.3	*	0.0	*	0.0	1.0	2.5	2.5	1.7	0.4	0.0
Sth and 7th child	0.8	*	0.0	*	.0.0	0.3	1.2	1.6	1.2	0.4	0.0
Bth child and over	0.8	*	*	*	*	0.0	0.2	0.5	0.6	0.4	0.0
White	57.6	0.3	30.0	14.1	52.9	86.8	111.3	94.7	39.8	7.3	0.4
1st child	23.5	0.2	24.7	13.0	41.7	43.2	44.4	29.6	9.6	1.7	0.1
2d child	19.6	0.0	4.6	1.0	9.8	30.0	39.6	36.3	13.6	2.2	0.1
3d child	9.3	0.0	0.6	0.1	1.3	10.6	18.5	18.5	9.3	1.5	0.1
Ath child	9.3 3.3	*	0.0	0.1	0.1	2.5	6.2	6.6	9.3 4.1		
		*		*						0.8	0.0
5th child	1.1	*	0.0	*	0.0	0.5	1.8	2.2	1.6	0.4	0.0
6th and 7th child	0.6	*		*	*	0.1	0.7	1.2	1.0	0.4	0.0
Bth child and over	0.2	*	*	*	*	0.0	0.1	0.3	0.5	0.3	0.0
Black	71.6	2.3	75.6	47.2	116.8	142.9	107.3	69.0	33.1	7.5	0.4
1st child	26.8	2.2	56.6	41.0	79.1	54.3	26.0	15.0	6.0	1.2	0.1
2d child	21.1	0.0	15.3	5.6	29.3	48.2	33.6	21.3	9.4	1.9	0.1
3d child	12.8	*	3.2	0.5	7.0	26.1	24.9	15.9	7.7	1.6	0.1
4th child	6.0	*	0.5	0.0	1.2	10.1	12.8	8.1	4.4	1.1	0.1
5th child	2.6	*	0.0	*	0.1	3.1	5.8	4.2	2.4	0.7	0.0
Sth and 7th child	1.7	*		*		1.0	3.6	3.3	2.4	0.7	0.0

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
 0.0 Quantity more than zero but less than 0.05.
 1 Birth rates computed by relating births to women aged 45-54 years to women aged 45-49 years.

2 Includes origin not stated.3 Includes races other than white and black.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table only non-Hispanic women are classified by race. Denominators for population-based rates are derived from the 1990 U.S.Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.

Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-2001

[Fertility rates are live births per 1,000 women aged 15-44 years in specified racial group and birth rates are live births per 1,000 women in specified age and racial group. Population enumerated as of April 1 for 1990, and estimated as of July 1 for all other years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

Interin Interin years								Age of	mother				
of mother rate liet rotat <						15-19 years		00.04	05.00	00.04	05.00	10.11	45.40
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			rate '		Total								45-49 years ²
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	All origins												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2001												0.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.4 0.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.3 0.3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.2
Hispanic Total 2001 3,165.0 107.6 1.7 92.5 57.0 143.5 186.0 174.9 113.8 51.5 11.9 2000 2,307.5 101.1 2.1 93.4 60.0 143.6 184.7 100.9 44.7 11.6 1997 2,999.5 102.8 2.3 97.4 66.3 144.3 184.2 161.7 97.9 45.0 10.8 1996 3,047.5 104.9 2.6 101.8 66.0 151.1 189.5 151.0 98.1 44.9 10.8 1994 3,014.0 105.6 2.7 106.8 71.7 159.1 188.2 153.4 96.4 44.7 10.6 1992 * 3,020.5 108.7 2.3 100.8 = 17.7 158.1 188.2 96.1 44.9 10.7 1992 * 3,002.5 108.7 2.4 106.7 77.6 188.5 188.0 12.2													0.2 0.2
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		_,••••											
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.6 0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.6 0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1993	3.020.5											0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1992 ³	3,043.0											0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1991 ³	3.002.5											0.6
Mexican	1990 ⁴ 1989 ⁵	2,959.5 2,903.5											0.7 0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			115.1			65.0	154.5	197.9	175.4	112.4	50.7	12.2	0.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													0.6 0.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			117.0	2.8	124.6	84.4	185.3	208.9	160.5	98.5	46.8	11.9	0.7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													0.7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1993	3,174.0											0.8 0.8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1991 ³	3.317.5											0.0
Puerto Rican 2000 2,584.0 84.3 1.9 97.0 63.2 143.1 181.3 121.3 74.2 34.1 6.7 1999 2,378.0 77.7 1.7 79.7 53.2 117.1 166.0 127.9 64.3 28.4 7.3 1998 2,268.0 75.5 1.9 81.2 55.1 120.7 164.2 104.4 67.6 26.7 7.2 1997 2,164.0 71.7 1.8 74.9 48.9 120.0 154.0 109.3 59.1 27.0 6.2 1995 2,245.5 75.7 3.0 89.0 61.2 139.2 151.5 107.2 64.8 27.7 5.6 1994 2,490.0 81.9 3.2 106.0 72.8 168.4 181.0 111.7 62.3 28.0 5.6 1992 ³ 2,644.5 89.9 3.5 110.4 204.9 106.6 66.7 30.0 6	1990 4	3 2 1 4 0	118.9	2.5	108.0			200.3	165.3	104.4	49.1	12.4	0.8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1989 ⁵	2,916.5	106.6	2.0	94.5			184.3	153.7	96.1	41.0	11.1	0.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													0.3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													0.3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											26.7	7.2	0.4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$,											0.5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													0.3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													0.2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1993	2,523.5	82.5		110.0	73.4	181.0		108.4				0.5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1992 ³	2,644.5											0.3
1989 ⁵ 2,421.0 86.6 3.8 112.7 171.0 98.0 65.2 26.9 6.3 Cuban 2001 171.0 98.0 65.2 26.9 6.3 2001 171.0 98.0 65.2 26.9 6.3 2001 2000 1,871.0 57.3 * 25.8 16.5 42.2 74.2 138.9 84.1 42.0 8.5 1999 1,563.0 51.2 0.7 27.1 15.7 46.2 71.8 92.8 72.9 39.6 7.4 1998 1,560.0 50.1 0.8 24.2 15.6 38.8 85.6 95.2 64.5 34.2 7.1 1997 1,814.5 57.4 1.0 38.3 25.3 53.4 82.7 123.5 75.7 35.1 6.3 1996 1,774.5 58.9 0.9 34.0 19.8 54.5	1991	2,276.0											0.3 0.5
2001													0.3
2001	Cuban												
1999 1,563.0 51.2 0.7 27.1 15.7 46.2 71.8 92.8 72.9 39.6 7.4 1998 1,560.0 50.1 0.8 24.2 15.6 38.8 85.6 95.2 64.5 34.2 7.1 1997 1,814.5 57.4 1.0 38.3 25.3 53.4 82.7 123.5 75.7 35.1 6.3 1996 1,774.5 58.9 0.9 34.0 19.8 54.5 82.5 110.7 85.9 34.3 6.4	2001												
19981,560.050.10.824.215.638.885.695.264.534.27.119971,814.557.41.038.325.353.482.7123.575.735.16.319961,774.558.90.934.019.854.582.5110.785.934.36.4													*
1997 1,814.5 57.4 1.0 38.3 25.3 53.4 82.7 123.5 75.7 35.1 6.3 1996 1,774.5 58.9 0.9 34.0 19.8 54.5 82.5 110.7 85.9 34.3 6.4													*
1996 1,774.5 58.9 0.9 34.0 19.8 54.5 82.5 110.7 85.9 34.3 6.4													0.3
	1996	1,774.5		0.9	34.0		54.5	82.5		85.9	34.3	6.4	*
1995													*
1994 1,680.5 55.9 0.6 40.2 23.1 77.4 72.5 98.4 87.6 31.3 5.5 1993 1,632.5 55.5 * 33.0 20.4 49.7 68.9 102.0 86.9 31.0 4.7				0.6									*
1992 ³ 1.485.5 50.3 1.0 26.3 51.6 98.4 86.2 28.9 4.7	1992 ³	1.485.5		1.0									0.0
1991 ³ 1,385.5 49.1 * 27.7 17.5 41.3 61.2 88.8 68.2 26.7 4.0	1991 ³	1,385.5		*									*
1990 ⁴ 1,459.5 52.6 * 30.3 18.2 46.1 64.6 95.4 67.6 28.2 4.9	1990 4	1,459.5	52.6		30.3			64.6	95.4	67.6	28.2	4.9	*
1989 ⁵ 1,479.0 49.8 0.5 25.1 64.2 101.8 73.7 27.2 3.0	1989 ⁵	1,479.0	49.8	0.5	25.1			64.2	101.8	73.7	27.2	3.0	0.3

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, 1989-2001 -- Con.

[Fertility rates are live births per 1,000 women aged 15-44 years in specified racial group and birth rates are live births per 1,000 women in specified age and racial group. Population enumerated as of April 1 for 1990, and estimated as of July 1 for all other years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

							Age of	mother				
Year and origin/race	Total fertilty	Fertility	_		15-19 years							
of mother	rate	rate 1	10-14 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ²
Other Hispanic ⁶												
2001 2000	2,969.5	94.3	1.3	76.9	47.0	118.0	154.5	180.2	 117.7	50.2	 12.4	0.7
1999		92.6	1.6	81.3	57.1	108.2	148.0	166.2	108.8	48.3	12.4	0.7
1998 1997		90.2 87.6	1.9 2.0	80.0 72.1	56.7 48.3	106.9 106.8	137.4 146.4	157.2 147.9	106.9 104.4	46.9 45.4	12.9 11.8	0.6 0.7
1996		90.2	2.4	69.8	46.6	103.1	166.5	146.3	105.3	50.4	11.0	0.7
1995	,	94.5	2.4	77.5	54.8	107.8	158.3	161.8	103.7	50.9	11.6	0.6
1994		97.7	2.6	87.9	66.4	112.4	162.0	147.4	109.3	49.4	11.9	0.6
1993 1992 ³		105.0 107.0	2.7 2.5	106.9 112.1	78.2	141.7	175.2 172.9	147.1 157.8	110.4 106.6	52.4 50.3	12.5 12.5	0.5 0.5
1991 ³	2,817.0	99.3	2.1	88.1	58.9	128.8	161.1	150.6	101.5	48.2	11.2	0.6
1990 4	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 ⁵	2,683.0	95.8	1.7	66.4			159.2	150.4	85.1	60.3	12.7	0.8
Non-Hispanic ⁷ Total ⁸												
2001	1,936.0	60.8	0.6	37.9	19.9	64.0	96.5	111.9	92.3	39.9	7.6	0.5
2000	1,968.0 1,929.5	61.8	0.7 0.8	40.9	22.1 23.5	68.4 70.6	99.7 99.4	113.2 110.6	91.9 87.8	39.3 37.3	7.5 7.1	0.4 0.4
1999 1998		60.7 60.7	0.8	42.5 44.3	25.4	70.0	99.4 99.9	109.3	85.7	36.5	7.0	0.4
1997		60.1	0.9	45.5	27.0	74.3	98.6	107.0	83.5	35.1	6.7	0.4
1996		60.3	1.0	47.3	28.7	76.2	98.4	106.5	82.0	34.2	6.5	0.3
1995		60.8 62.0	1.1 1.2	49.6 52.0	30.7 32.5	79.0 81.8	98.5 100.4	106.4 108.6	80.9 79.9	33.2	6.2 6.0	0.3
1994 1993		63.1	1.2	52.0 52.9	32.5	82.6	100.4	110.4	79.9	32.6 31.7	5.7	0.3 0.3
1992 ³	1,941.0	64.4	1.2	54.4	33.2	85.5	104.7	112.7	78.4	31.2	5.4	0.2
1991 ³	1,959.5	65.4	1.3	56.1	34.4	86.1	106.6	114.0	77.8	30.8	5.1	0.2
1990 ⁴ 1989 ⁵		67.1 65.7	1.3 1.3	54.8 53.4	33.8	81.4	108.1 107.8	116.5 113.4	79.2 74.7	30.7 28.6	5.1 4.8	0.2 0.2
White	,											
2001	1,853.0	57.6	0.3	30.0	14.1	52.9	86.8	111.3	94.7	39.8	7.3	0.4
2000		58.5	0.3	32.5	15.8	56.8	89.6	112.8	94.0	39.0	7.2	0.4
1999		57.8	0.3	34.0	17.1	58.9	89.9	111.0	90.3	37.3	6.8	0.4
1998 1997		57.7 57.0	0.3 0.4	35.2 36.0	18.4 19.4	60.6 61.9	90.7 89.8	109.7 107.2	88.0 85.2	36.4 34.9	6.7 6.4	0.4 0.3
1996		57.3	0.4	37.6	20.6	63.7	90.1	107.0	83.5	34.0	6.2	0.3
1995		57.6	0.4	39.3	22.0	66.1	90.0	106.5	82.0	32.9	5.9	0.3
1994		58.3	0.5	40.4	22.8	67.4	90.9	107.9	80.7	32.1	5.7	0.2
1993 1992 ³	1,792.5	59.0 60.2	0.5 0.5	40.7 41.7	22.7 22.7	67.7 69.8	92.1 93.9	109.2 111.5	79.4 78.7	31.1 30.5	5.3 5.1	0.2 0.2
1991 ³	1,826.5	61.0	0.5	43.4	23.6	70.5	95.7	112.7	77.9	30.2	4.7	0.2
1990 ⁴	1,850.5	62.8	0.5	42.5	23.2	66.6	97.5	115.3	79.4	30.0	4.7	0.2
1989 ⁵	1,770.0	60.5	0.4	39.9			94.7	111.7	75.0	27.8	4.3	0.2
Black												
2001	2,190.5	71.6	2.3	75.6	47.2	116.8	142.9	107.3	69.0	33.1	7.5	0.4
2000 1999	2,256.0 2,212.5	73.7 72.2	2.5 2.7	81.9 83.7	52.0 53.7	125.1 126.8	148.6 146.3	108.2 104.9	69.3 66.3	33.0 31.5	7.3 6.7	0.4 0.4
1998		73.0	3.0	88.2	58.8	130.9	146.4	104.6	66.6	31.2	6.8	0.4
1997	2,210.5	72.4	3.4	90.8	62.6	134.0	143.0	101.9	65.8	30.3	6.6	0.3
1996 1995		72.5	3.8	94.2	66.6	136.6	140.9	100.8	64.9 65.0	29.7	6.2	0.3
1995		74.5 79.0	4.3 4.7	99.3 107.7	72.1 78.6	141.9 152.9	141.7 150.3	102.0 107.0	65.9 67.5	29.4 29.5	6.1 6.0	0.3 0.3
1993		82.7	4.7	112.2	82.5	156.7	157.4	111.5	69.0	29.8	6.0	0.3
1992 ³	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 ³	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 ⁴ 1989 ⁵	2,547.5	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
1002 -	2,724.0	04.0	0.2	111.7			130.3	113.0	00.7	20.5	0.0	0.5

*

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

Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator. 0.0 Quantity more than zero but less that 0.05. 1 Fertility rates computed by relating total births, regardless of age of mother, to women 15-44 years. 2 Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years. 3 Excludes data for New Hampshire, which did not report Hispanic origin. 4 Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin. 5 Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin. 6 Includes Central and South American and other and unknown Hispanic.

7 Includes origin not stated.

8 Includes races other than white and black.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race; see Technical notes. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S.Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin. Rates for 2001 for Hispanic subgroups are not shown because population data for these groups, based on the 1990 Census, are not reliable; see Technical notes

Table 10. Number of births, birth rates, fertility rates, total fertility rates, and birth rates for teenagers 15-19 years by age of mother: United States, each State and territory, 2001

[By place of residence. Birth rates are live births per 1,000 estimated population in each area; fertility rates are live births 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
						15-19 years	
State	Number of births	Birth rate	Fertility rate	Total fertility rate	Total	15-17 years	18-19 year
nited States ¹	4,025,933	14.5	66.9	2,114.5	45.8	25.2	75.5
labama	60,454	13.7	62.4	1,941.5	57.8	33.5	91.8
laska	10,003	16.0	75.5	2.462.5	37.7	18.5	64.8
rizona	85,597	17.1	84.0	2,643.0	65.3	38.1	106.6
rkansas	37,010	14.3	67.5	2,043.0	64.2	33.0	100.0
	,			,	45.2		
alifornia	527,759	15.5 15.9	69.5 74.6	2,151.0 2,398.0	45.2	26.0 25.1	70.6 75.5
olorado	67,007			2,398.0			
onnecticut	42,648	12.9	61.0	,	29.4	15.4	52.4
elaware	10,749	13.9	61.5	1,958.5	48.2	29.2	74.0
istrict of Columbia	7,625	14.8	63.9	1,983.0	74.9	52.2	98.1
orida	205,793	13.2	67.0	2,165.5	49.3	26.9	83.7
eorgia	133,526	16.5	71.1	2,228.0	60.9	34.1	100.3
awaii	17,072	14.5	71.4	2,311.0	42.5	22.4	66.5
aho	20,688	16.0	75.4	2,303.5	40.6	19.3	69.4
inois	184,064	15.0	69.5	2,189.5	47.3	26.5	78.5
diana	86,459	14.4	66.1	2,089.5	47.2	23.8	81.7
wa	37,619	13.0	63.4	2,035.0	33.0	16.2	58.2
ansas	38,869	14.5	68.1	2,167.5	43.0	22.4	72.5
entucky	54,658	13.6	62.3	1,949.0	51.4	26.0	87.2
puisiana	65,352	14.9	67.2	2,065.5	57.8	33.4	90.8
aine	13,759	10.9	50.0	1,629.5	27.1	11.7	51.3
aryland	73,218	13.9	60.9	1,948.0	38.2	21.6	63.3
assachusetts	81,077	13.0	59.1	1,814.5	25.0	13.8	41.3
ichigan	133,427	13.4	61.0	1,938.0	37.2	19.5	64.4
	67,562	13.4	63.5	2,061.0	27.9	14.0	48.8
innesota				,			
ississippi	42,282	15.1	67.6	2,045.5	66.7	39.6	104.9
issouri	75,464	13.6	63.2	2,022.0	46.1	23.3	80.2
ontana	10,970	12.3	61.8	2,003.5	35.6	18.0	61.8
ebraska	24,820	14.8	69.7	2,229.0	36.0	19.6	59.1
evada ew Hampshire	31,382 14,656	16.1 11.9	79.4 52.0	2,541.5 1,660.5	56.4 21.0	30.5 9.8	97.9 38.9
	115 705	110		0.445.5	00.0	10.1	50.0
ew Jersey	115,795	14.0	66.3	2,115.5	29.9	16.1	52.0
ew Mexico	27,128	15.4	72.8	2,311.0	64.5	39.3	102.1
ew York	254,026	13.9	64.4	2,012.5	34.1	18.8	56.2
orth Carolina	118,185	15.1	70.4	2,239.0	55.2	29.9	94.7
orth Dakota	7,629	12.2	59.3	1,898.5	27.2	11.9	49.2
hio	151,570	13.4	61.9	1,958.5	42.2	21.9	72.2
klahoma	50,118	14.8	70.8	2,204.5	58.0	30.7	96.8
regon	45,322	13.5	65.3	2,055.0	40.9	20.9	70.8
ennsylvania hode Island	143,495 12,713	12.0 12.7	57.7 59.2	1,857.0 1,869.5	33.6 37.4	18.0 21.5	57.1 60.9
	12,710	12.1	00.2	1,003.0	57.4	21.0	00.9
outh Carolina	55,756	14.1	62.8	1,959.0	57.4	33.2	89.8
outh Dakota	10,483	14.1	67.7	2,174.5	37.1	18.7	62.8
ennessee	78,340	14.0	64.3	2,037.5	58.4	30.9	99.0
exas	365,410	17.6	79.9	2,493.5	66.5	40.4	103.0
tah	47,959	21.8	95.0	2,755.5	38.2	19.3	61.8
ermont	6,366	10.6	47.9	1,547.0	23.9	10.3	44.3
rginia	98,884	14.0	60.9	1,894.5	39.4	21.1	64.1
ashington	79,570	13.6	61.9	1,963.0	34.9	17.7	59.8
est Virginia	20,428	11.4	55.6	1,711.5	45.5	22.6	78.2
lisconsin	69,072	12.9	60.2	1,940.0	33.4	17.8	56.7
/yoming	6,115	12.7	62.0	1,926.5	38.6	18.2	68.8
uerto Rico	55,866	14.2	61.2	1.761.5	68.0	46.1	100.2
irgin Islands	1,669	13.7	63.4	1,922.0	51.5	31.8	82.5
uam	3,564	22.6	113.7	3,472.5	70.5	39.8	118.6
	0,004						
merican Samoa	1,655	24.7	113.9	3,497.0	38.9	10.7	83.7

¹ Excludes data for the territories.

NOTES: Denominators for population-based rates are derived from the 1990 U.S.Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.

Table 11. Live births by race of mother: United States, each State and territory, 2001

[By place of residence]

=			Number		
State	All races	White	Black	American Indian ¹	Asian or Pacific Islander
United States ²	4,025,933	3,177,626	606,156	41,872	200,279
Alabama	60,454	40,604	19,199	182	469
Alaska	10,003	6,383	441	2,542	637
Arizona	85,597	75,219	2,762	5,498	2,118
Arkansas	37,010	28,836	7,435	244	495
California	527,759	428,238	33,774	2,926	62,821
Colorado	67,007	61,056	2,971	651	2,329
Connecticut	42,648 10,749	35,612 7,668	5,134 2,710	164 26	1,738 345
Delaware District of Columbia	7,625	2,570	4,860	20	186
Florida	205,793	152,207	47,186	1,230	5,170
Georgia	133,526	85,648	43,727	275	3,876
Hawaii	17,072	3,815	527	183	12,547
ldaho	20,688	19,944	86	360	298
Illinois	184,064	142,474	33,203	261	8,126
Indiana	86,459	75,393	9,649	168	1,249
	37,619	35,324	1,266	232	797
Kansas	38,869	34,622	2,781	458	1,008
Kentucky Louisiana	54,658 65,352	48,968 36.899	4,930 27.058	102 380	658 1,015
Maine	13,759	13,280	153	110	216
Maryland	73,218	45,068	24,252	212	3,686
Massachusetts	81,077	67,786	8,205	144	4,942
Michigan	133,427	105,235	23,613	641	3,938
Minnesota	67,562	57,982	4,767	1,312	3,501
Mississippi	42,282	22,808	18,817	265	392
Missouri	75,464	62,504	11,134	342	1,484
Montana Nebraska	10,970 24,820	9,442 22,496	42 1,373	1,369 433	117 518
Nevada	31,382	26,284	2,518	482	2,098
New Hampshire	14,656	13,954	208	40	454
New Jersey	115,795	85,110	20,583	167	9,935
New Mexico	27,128	22,810	511	3,404	403
New York	254,026	182,191	52,190	710	18,935
North Carolina	118,185	85,315	28,393	1,689	2,788
North Dakota	7,629	6,625	102	806	96
Ohio Oklahoma	151,570 50,118	125,507 39,218	22,994 4,612	313 5.258	2,756
Oregon	45,322	41,284	944	792	2,302
Pennsylvania	143,495	119,015	20,238	356	3,886
Rhode Island	12,713	10,960	1,112	127	514
South Carolina	55,756	35,866	18,927	153	810
South Dakota	10,483	8,475	101	1,776	13
Tennessee	78,340	60,216	16,603	181	1,340
Texas	365,410 47,959	311,979 45,440	40,750	854	11,827
Utah Vermont	47,959 6,366	45,440 6,237	342 31	742 7	1,435 9 ⁻
Virginia	98,884	70,946	22,272	120	5,546
Washington	79,570	67,437	3,334	1,897	6,902
West Virginia	20,428	19,576	704	19	129
Wisconsin	69,072	59,383	6,567	989	2,133
Wyoming	6,115	5,717	65	271	62
Puerto Rico	55,866	51,285	4,564		
Virgin Islands	1,669	367	1,230	72	0.001
Guam	3,564	234	37	4	3,289
American Samoa Northern Marianas	1,655	3 19	-	-	1,652 1,430
NUTUREITI Mananas	1,449	19	-	-	1,43

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

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

Table 12. Live births by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, each State and territory, 2001

[By place of residence]

						Origin of mot	her				
0	All			Hispa	anic			Ν	on-Hispanic		Not
State	origins	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ¹	White	Black	stated
United States ²	4,025,933	851,851	611,000	57,568	14,017	121,365	47,901	3,149,572	2,326,578	589,917	24,510
Alabama	60,454	2,254	1,741	72	19	137	285	58,157	38,342	19,183	43
Alaska	10,003	652	299	66	9	57	221	8,480	5,567	388	871
Arizona	85,597	36,183	34,451	260	59	699	714	48,317	38,878	2,560	1,097
Arkansas	37,010	2,649	2,229	49	10	332	29	34,229	26,082	7,422	132
California	527,759	261,071	228,648	2,051	769	25,134	4,469	263.321	167,025	32,551	3,367
Colorado	67,007	19,730	15,359	289	64	671	3,347	47,271	41,764	2,830	6
Connecticut	42,648	6,913	773	4,051	68	1,764	257	35,220	28,434	4,929	515
Delaware	10,749	1,083	566	297	5	207	8	9,650	6,598	2,684	16
District of Columbia	7,625	895	91	12	7	715	70	6,687	1,687	4,805	43
Florida	205,793	49,629	12,097	8,625	9,778	17,868	1,261	155,846	104,068	45,954	318
Georgia	133,526	15,699	12,280	568	162	2,596	93	116,254	69,306	43,076	1,573
Hawaii	17,072	2,237	421	678	17	2,330	1,039	14,812	3,119	495	23
Idaho	20,688	2,753	2,307	22	5	75	344	17,541	16,855	78	394
Illinois	184,064	40,973	34,909	2,695	186	1,542	1,641	143,005	101,660	32,995	86
Indiana	86,459	5,898	5,153	2,000	20	360	74	80,181	69,242	9,575	380
lowa	37,619	2,232	1,782	44	20	299	101	35,292	33,068	1,237	95
Kansas	38,869	4,906	4,033	87	29	279	478	33,535	29,363	2,747	428
			1,159	92	29 56					4,905	23
Kentucky	54,658	1,509				177	25	53,126	47,485		
Louisiana	65,352	1,557	618	108	61	127	643	63,745	35,383	27,010	50
Maine	13,759	173	27	24	5	41	76	13,535	13,074	142	51
Maryland	73,218	5,301	999	347	56	3,022	877	67,617	39,798	24,046	300
Massachusetts	81,077	9,444	440	4,546	71	4,118	269	71,007	59,405	6,552	626
Michigan	133,427	7,335	5,960	423	68	498	386	124,166	96,346	23,399	1,926
Minnesota	67,562	4,543	3,522	111	29	549	332	62,541	53,141	4,685	478
Mississippi	42,282	719	401	15	9	60	234	41,531	22,073	18,809	32
Missouri	75,464	2,981	2,238	90	33	390	230	72,395	59,513	11,084	88
Montana	10,970	377	172	12	4	18	171	10,280	8,798	38	313
Nebraska	24,820	2,946	2,336	32	12	383	183	21,342	19,056	1,355	532
Nevada	31,382	10,855	8,943	229	192	976	515	20,181	15,323	2,414	346
New Hampshire	14,656	509	128	110	7	183	81	13,493	12,849	159	654
New Jersey	115,795	23,497	4,344	6,914	847	11,016	376	91,973	63,266	18,709	325
New Mexico	27,128	14,126	6,448	55	30	190	7,403	12,994	8,776	485	8
New York	254,026	54,544	8,645	13,257	464	24,042	8,136	196,773	130,637	46,709	2,709
North Carolina	118,185	14,539	11,167	685	119	2,465	103	103,554	70,863	28,250	92
North Dakota	7,629	140	90	6	1	7	36	7,295	6,299	101	194
Ohio	151,570	4,598	2,455	1,309	52	511	271	146,639	120,869	22,769	333
Oklahoma	50,118	4,942	4,352	117	16	235	222	45,090	34,360	4,574	86
Oregon	45,322	7,902	7,374	77	32	318	101	37,271	33,388	908	149
Pennsylvania	143,495	8,192	1,577	5,044	101	617	853	134,265	110,501	19,615	1,038
Rhode Island	12,713	2,196	149	641	9	1,305	92	9,261	7,676	994	1,256
South Carolina	55,756	2,988	2,072	196	27	455	238	52,698	32,932	18,878	70
South Dakota	10,483	257	169	15	1	47	25	10,215	8,254	97	11
Tennessee	78,340	3,905	2,946	206	38	558	157	74,407	56,363	16,568	28
Texas	365,410	172,354	152,757	1,105	290	9,235	8,967	191,808	139,104	40,221	1,248
Utah	47,959	6,543	5,147	98	21	638	639	41,146	38,682	325	270
Vermont	6,366	35	8	9	2	10	6	6,139	6,014	29	192
Virginia	98,884	9,143	2,337	613	76	5,477	640	89,494	61,871	22,082	247
Washington	79,570	12,140	10,330	253	38	632	887	66,050	54,468	3,219	1,380
West Virginia	20,428	83	42	12	-	9	20	20,291	19,446	698	54
Wisconsin	69,072	5,152	4,010	654	35	227	226	63,913	54,346	6,515	7
Wyoming	6,115	569	499	6	2	12	50	5,539	5,161	64	7
Puerto Rico	55,866										55,866
Virgin Islands	1,669	385	12	295	2	-	76	1,233	79	1,091	51
Guam	3,564	52	20	20	-	6	6	3,421	209	37	91
American Samoa	1,655			20					205		1,655
Northern Marianas	1,449										1,449
	1.449										1,443

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

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

Table 13. Total number of births, rates (birth, fertility, and total fertility), and percent of births with selected demographic characteristics, by detailed race of mother and place of birth of mother: United States, 2001

[Birth rates are live births per 1,000 population. Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15-44 years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

	All		B 1 1	American			Asian or Pac	ific Islander		
Characteristic	races	White	Black	Indian ¹	Total	Chinese	Japanese	Hawaiian	Filipino	Other
					Num	ber				
Births	4,025,933	3,177,626	606,156	41,872	200,279	31,401	9,048	6,411	32,468	120,951
					Ra	te				
Birth rate Fertility rate Total fertility rate	14.5 66.9 2,114.5	13.9 66.3 2,109.5	17.0 69.5 2,123.5	16.9 70.8 2,074.5	17.2 69.4 2,035.5					
Sex ratio ²	1,046	1,047	1,032	1,024	1,067	1,092	1,041	1,000	1,077	1,064
					Perc	ent				
All births Births to mothers under 20 years 4th- and higher-order births Births to unmarried mothers Mothers completing 12 years or more of school Mothers born in the 50 States and DC Mothers born in the 50 States and DC Births to mothers under 20 years	11.3 10.8 33.5 78.3 77.5	10.2 10.1 27.7 78.3 79.1	18.9 15.1 68.4 75.1 87.6 20.7	19.3 18.8 59.7 69.0 94.7	4.3 6.8 14.9 89.2 16.8	1.0 2.2 8.4 88.1 10.2 3.5	1.7 4.2 9.2 98.2 40.1	16.2 15.4 50.6 84.6 97.6	5.1 7.5 20.4 94.0 21.2	4.6 7.6 13.7 87.8 11.3
4th- and higher-order births Births to unmarried mothers Mothers completing 12 years or more of school	10.3 34.5 83.4	9.2 26.2 85.4	15.3 72.0 74.1	19.1 61.1 69.3	8.0 32.9 88.6	4.0 11.7 96.8	5.3 16.0 97.3	15.3 50.8 84.7	7.8 35.3 90.2	6.5 33.0 85.3
Mothers born outside the 50 States and DC Births to mothers under 20 years 4th- and higher-order births Births to unmarried mothers Mothers completing 12 years or more of school	8.2 12.3 30.0 60.7	9.9 13.7 33.3 51.0	5.9 13.4 42.5 82.4	9.2 12.4 33.7 65.0	2.3 6.6 11.2 89.4	0.7 2.0 7.9 87.2	0.4 3.5 4.6 98.8	* 18.2 39.0 80.0	3.0 7.4 16.4 95.0	2.7 7.7 11.2 88.1

Data not available.

--- Data not available.
* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
1 Includes births to Aleuts and Eskimos.
2 Male live births per 1,000 female live births.

NOTES: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race. Denominators for population-based rates are derived from the 1990 U.S.Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.

Table 14. Total number of births, rates (birth, fertility, and total fertility), 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, 2001

[Birth rates are live births per 1,000 population. Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15-44 years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

				Hispa	anic				Non-Hispanic	
Characteristic	All origins ¹	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
					Nu	mber				
Births	4,025,933	851,851	611,000	57,568	14,017	121,365	47,901	3,149,572	2,326,578	589,917
					F	late				
Birth rate Fertility rate Total fertility rate	14.5 66.9 2,114.5	25.4 107.6 3,165.0					 	13.0 60.8 1,936.0	11.9 57.6 1,853.0	17.5 71.6 2,190.5
Sex ratio ³	1,046	1,038	1,037	1,052	1,032	1,037	1,042	1,048	1,051	1,032
					Pe	rcent				
All births Births to mothers under 20 years 4th- and higher-order births Births to unmarried mothers Mothers completing 12 years or	11.3 10.8 33.5	15.6 13.6 42.5	16.5 14.6 40.8	19.2 12.4 58.9	7.5 5.4 27.2	9.4 10.7 44.3	17.3 11.3 44.2	10.1 10.0 31.1	8.2 8.9 22.5	18.9 15.2 68.6
more of school Mothers born in the 50 States and	78.3	51.2	45.0	67.7	88.2	63.5	69.6	85.5	88.0	75.2
DC Mothers born in the 50 States and	77.5	36.8	36.2	64.8	45.0	11.2	73.8	88.4	94.3	88.7
DC Births to mothers under 20 years 4th- and higher-order births Births to unmarried mothers Mothers completing 12 years or	12.2 10.3 34.5	22.3 11.8 47.9	23.3 12.4 46.6	21.0 11.6 61.3	12.8 6.0 27.5	19.9 5.6 46.0	20.4 11.3 46.4	11.0 10.1 33.0	8.5 8.8 23.2	20.6 15.4 72.1
more of school	83.4	67.8	65.8	67.8	86.3	80.4	71.9	85.1	87.9	74.1
Mothers born outside the 50 States and DC Births to mothers under 20 years 4th- and higher-order births Births to unmarried mothers Mothers completing 12 years or	8.2 12.3 30.0	11.6 14.6 39.2	12.6 15.8 37.4	15.9 13.7 54.4	3.1 4.9 26.9	8.1 11.3 44.1	8.5 11.3 36.9	3.2 9.0 16.4	3.1 9.7 10.6	5.4 13.7 40.6
more of school	60.7	41.5	32.9	67.4	89.7	61.3	63.4	88.9	90.7	84.2

--- Data not available. 1 Includes origin not stated. 2 Includes races other than white and black. 3 Male live births per 1,000 female live births.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race; see Technical notes. Denominators for population-based rates are derived from the 1990 U.S. Census. As a result, rates are generally larger than would be the case if 200-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes. Rates for Hispanic subgroups are not shown because population data for these groups, based on the 1990 Census, are not reliable; see Technical notes.

Table 15. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 2001

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

Marth		Number		Obs	served	Seasonall	y adjusted ¹
Month	All races ²	White	Black	Birth rate	Fertility rate	Birth rate	Fertility rate
Total	4,025,933	3,177,626	606,156	14.5	66.9		
January	335,198	261,589	52,967	14.3	65.6	14.8	68.1
February	303,534	239,082	46,173	14.3	65.9	14.5	66.8
March	338,684	267,677	50,649	14.4	66.3	14.5	66.9
April	323,613	257,148	47,211	14.2	65.5	14.5	66.9
May	344,017	274,150	49,470	14.6	67.4	14.7	67.9
June	331,085	263,118	48,461	14.5	67.0	14.3	66.0
July	351,047	277,569	52,851	14.9	68.7	14.4	66.7
August	361,802	286,012	54,454	15.3	70.8	14.7	67.8
September	342,564	270,305	51,467	15.0	69.3	14.3	66.1
October	344,074	271,950	51,190	14.5	67.4	14.6	67.7
November	323,746	254,005	49,761	14.1	65.5	14.6	67.7
December	326,569	255,021	51,502	13.8	64.0	14.1	65.3

... Category not applicable.

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

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

Table 16. Live births by day of week and index of occurrence by method of delivery, day of week, and race of mother: United States, 2001

			I	ndex of occurrence	1	
Day of week and	Average number			Method	of delivery	
race of mother	of births	Total ²			Cesarean	
			Vaginal	Total	Primary	Repeat
All races ³	11,030	100.0	100.0	100.0	100.0	100.0
Sunday	7,637	69.2	75.4	50.7	61.0	34.1
Monday	11,192	101.5	99.7	106.9	98.2	120.7
Tuesday	12,496	113.3	111.0	120.1	117.6	124.2
Wednesday	12,371	112.2	110.1	118.3	115.9	122.2
Thursday	12,466	113.0	111.1	118.8	115.6	124.0
Friday	12,315	111.7	107.7	123.5	117.0	133.9
Saturday	8,729	79.1	84.9	61.6	74.8	40.5
White	8,706	100.0	100.0	100.0	100.0	100.0
Sunday	5,878	67.5	73.8	48.5	59.0	32.1
Monday	8,893	102.1	100.3	107.8	98.8	121.9
Tuesday	9,928	114.0	111.8	120.9	118.6	124.5
Wednesday	9,810	112.7	110.6	118.9	116.6	122.3
Thursday	9,908	113.8	111.9	119.6	116.2	124.8
Friday	9,771	112.2	108.1	124.8	117.8	135.6
Saturday	6,750	77.5	83.4	59.5	73.1	38.4
Black	1,661	100.0	100.0	100.0	100.0	100.0
Sunday	1,250	75.2	81.2	58.6	68.4	42.2
Monday	1,638	98.7	97.0	103.2	95.6	115.9
Tuesday	1.844	111.0	108.7	117.6	113.9	123.8
Wednesday	1,834	110.4	108.1	117.0	113.8	122.2
Thursday	1.834	110.5	108.5	116.2	113.6	120.3
Friday	1,816	109.3	105.9	118.8	114.3	126.3
Saturday	1,410	84.9	90.7	68.6	80.4	49.0
	.,	00	00.1		55.1	.5.0

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

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

Table 17. Number, birth rate, and percent of births to unmarried women by age, race, and Hispanic origin of mother: United States, 2001

		W	/hite	В	lack	
Measure and age of mother	All races ¹	Total	Non-Hispanic	Total	Non-Hispanic	Hispanic ²
Number						
All ages	1,349,249	879,848	524,371	414,533	404,503	361,689
Jnder 15 years	7,494	3,833	1,522	3,440	3,388	2,354
5-19 years	352,026	232,945	140,734	106,005	103,654	93,798
15 years	18,872	11,389	5,353	6,831	6,687	6,150
16 years	40,653	26,115	13,646	13,029	12,742	12,663
17 years	68,113	45,209	26,136	20,378	19,914	19,418
18 years	100,050	67,108	41,767	29,275	28,613	25,750
19 years	124,338	83,124	53,832	36,492	35,698	29,817
20-24 years	514,959	335,051	208,328	160,840	157,334	128,872
25-29 years	257,702	166,999	91,889	79,107	77,029	76,385
30-34 years	135,040	87,461	49,213	40,831	39,620	38,984
35-39 years	65,257	42,346	25,585	19,622	18,941	17,131
0 years and over	16,771	11,213	7,100	4,688	4,537	4,165
Rate per 1,000 unmarried women in specified group						
5-44 years ³	45.0	39.2	27.7	70.1		98.0
15-19 years	37.4	31.5	22.9	71.4		71.8
15-17 years	22.5	18.5	12.2	45.5		47.6
18-19 years	60.1	51.3	39.0	109.4		110.4
20-24 years	73.8	63.1	46.3	127.5		150.5
5-29 years	63.7	58.1	38.4	88.2		150.3
80-34 years	41.9	38.4	25.5	52.9		106.5
35-39 years	20.8	18.8	13.2	25.9		53.2
10-44 years ⁴	5.3	4.8	3.6	6.3		12.5
Percent of births to unmarried women						
All ages	33.5	27.7	22.5	68.4	68.6	42.5
Inder 15 years	96.3	93.6	96.3	99.6	99.6	92.1
5-19 years	78.9	73.1	74.0	95.6	95.8	72.1
15 years	93.7	90.5	92.9	99.3	99.3	88.7
16 years	89.6	85.6	87.8	98.8	98.9	83.5
17 years	85.3	80.6	83.2	98.1	98.1	77.6
18 years	79.2	73.5	75.4	95.9	96.0	70.9
19 years	71.4	64.9	65.6	92.4	92.6	64.0
20-24 years	50.4	43.0	39.8	80.7	80.9	49.9
25-29 years	24.4	43.0 19.6	14.8	57.6	57.7	49.9 33.5
	14.3	11.3	7.9	43.1	43.2	25.9
80-34 years	14.3	11.5	8.5	40.0	39.9	25.9
10 years and over	17.1	14.2	11.1	40.0	40.6	28.4
+0 years and 0ver	17.1	14.4	11.1	40.7	40.0	20.4

Data not available.

1 2

Includes all persons of Hispanic origin of any race.
 Birth rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.
 Birth rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.

NOTES: For 48 States and the District of Columbia, marital status is reported on the birth certificate; for Michigan and New York, mother's marital status is inferred;

See Technical notes. Rates cannot be computed for unmarried non-flispanic black women because the necessary populations are not available. Denominators for population-based rates are derived from the 1990 U.S.Census. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.

Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-2001, and by age, race, and Hispanic origin of mother: United States, 1980-2001

[Rates are live births to unmarried women per 1,000 unmarried women. Population estimated as of July 1]

					Age of mother				
Year and race			15-19 years						
and Hispanic origin	15-44 years ¹	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years ²
All races ³									
001 ⁴	45.0	37.4	22.5	60.1	73.8	63.7	41.9	20.8	5.3
000 ⁴	45.2	39.6	24.4	62.9	74.5	62.2	40.7	20.0	5.0
999 ⁴	44.4	40.4	25.5	63.3	72.9	60.2	39.3	19.3	4.6
998 ⁴	44.3	41.5	27.0	64.5	72.3	58.4	39.1	19.0	4.6
997 ⁴	44.0	42.2	28.2	65.2	71.0	56.2	39.0	19.0	4.6
996 ⁴	44.8	42.9	29.0	65.9	70.7	56.8	41.1	20.1	4.8
995 ⁴	45.1	44.4	30.5	67.6	70.3	56.1	39.6	19.5	4.7
994 ⁴	46.9	46.4	32.0	70.1	72.2	59.0	40.1	19.8	4.7
993 ⁴	45.3	44.5	30.6	66.9	69.2	57.1	38.5	19.0	4.4
992 ⁴	45.2	44.6	30.4	67.3	68.5	56.5	37.9	18.8	4.1
991 ⁴	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 ⁴	41.6	40.1	28.7	56.0	61.2	52.8	34.9	16.0	3.4
988 4	38.5	36.4	26.4	51.5	56.0	48.5	32.0	15.0	3.2
987 ⁴	36.0	33.8	24.5	48.9	52.6	44.5	29.6	13.5	2.9
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	10.3	2.6
982 4, 5	30.0	28.7	21.5	39.6	41.5	35.1	21.9	10.0	2.7
981 ^{4, 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
	aa (~~ =	~~ -			40 F		
980 ^{5, 6}	28.4	27.5	20.7	38.7	39.7	31.4	18.5	8.4	2.3
970 6, 7	24.5 26.4	23.9 22.4	19.3 17.1	32.5 32.9	31.2 38.4	27.5 37.0	17.9 27.1	9.1 13.6	2.6 3.5
	2011			02.0		0/10			0.0
White, total									
001 4	39.2	31.5	18.5	51.3	63.1	58.1	38.4	18.8	4.8
000 4	38.9	33.1	20.0	53.2	62.9	55.9	37.0	18.0	4.5
999 ⁴	38.1	33.7	21.0	53.3	61.4	53.4	35.8	17.5	4.1
998 ⁴	37.5	34.0	21.8	53.5	60.5	50.9	34.9	17.0	4.0
997 ⁴	37.0	34.2	22.4	53.6	59.2	49.3	34.4	16.7	3.9
996 ⁴	37.6	34.5	22.7	54.1	59.0	49.9	36.1	17.8	4.3
995 ⁴	37.5	35.5	23.6	55.4	58.0	48.7	34.2	16.9	4.2
994 ⁴	38.3	36.2	24.1	56.4	58.1	49.7	34.2	17.3	4.3
993 ⁴	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
989 ⁴	30.2	28.0	19.3	40.2	43.8	39.1	26.8	13.1	2.9
988 ⁴	27.4	25.3	17.6	36.8	39.2	35.4	24.2	12.1	2.3
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 ⁴	22.5	20.8	14.5	31.2	31.7	28.5	18.4	9.0	2.0
984 ⁴ , ⁵	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}	19.8	18.0	13.1	25.3	26.5	23.0	15.3	7.8	2.0
982 ^{4, 5}	18.6	17.2	12.6	25.3 24.6	26.5 25.8	23.1	14.2	7.4	2.1
980 ⁴ , ⁵	18.1	16.5	12.0	24.0	25.0	22.3	14.2	7.2	1.9
White, non-Hispanic									
001 4	27.7	22.9	12.2	39.0	46.3	38.4	25.5	13.2	3.6
000 4	27.9	24.5	13.6	41.4	46.6	37.6	25.0	12.9	3.3
999 4	27.9	25.5	14.6	42.3	46.0	37.0	25.0	13.0	3.1
998 4	28.0	26.1	15.6	42.8	46.0	36.1	25.2	13.1	3.0
997 4	27.6	26.4	16.2	43.1	44.8	35.2	25.1	12.7	2.9
996 ⁴	28.3	27.0	16.9	43.8	44.5	35.7	26.6	13.9	3.3
995 4	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 4									
992 ⁴									
991 4									
990 4, 8	24.4	25.0	16.2	37.0	36.4	30.3	20.5	6.1	

See footnotes at end of table.

Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-2001, and by age, race, and Hispanic origin of mother: United States, 1980-2001 -- Con.

[Rates are live births to unmarried women per 1,000 unmarried women. Population estimated as of July 1]

					Age of mother				
Year and race			15-19 years		00.04	05.00	00.04	35-39	40.44
and Hispanic origin	15-44 years ¹	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	25.9 25.9 24.7 24.7 25.5 25.6 26.3 25.9 25.8 25.9 25.8 25.9 25.8 25.9 25.5 24.9 24.1 22.4 20.6 20.4 19.4	40-44 years ²
Black, total									
2001 ⁴	70.1	71.4	45.5	109.4	127.5	88.2	52.9	25.9	6.3
2000 4	72.5	77.0	49.9	116.9	132.8	89.6	51.9		6.3
1999 ⁴	71.5	78.4	51.5	117.9	130.3	89.6	50.3		5.9
1998 ⁴	73.3	83.4	56.5	123.5	131.0	90.3	51.7		6.1
1997 ⁴	73.4	86.4	60.6	127.2	127.8	85.2	52.3		6.5
1996 ⁴	74.4	89.2	64.0	129.2	125.8	84.5	54.5		6.1
1995 ⁴	75.9	92.8	68.6	131.2	127.7	84.8	54.3		6.0
1994 ⁴	82.1	100.9	75.1	141.6	138.1	93.6	57.2		5.9
1993 ⁴	84.0	102.4	76.8	141.6	142.2	94.5	57.3		5.8
1992 ⁴	86.5	105.9	78.0	147.8	144.3	98.2	57.7		5.4
1991 ⁴	89.5	108.5	80.4	148.7	147.5	100.9	60.1		5.4
1990 ⁴	90.5	106.0	78.8	143.7	144.8	105.3	61.5		5.4
1990	90.5	104.5	78.9	140.9	144.0	102.9	60.5		5.0
1989 ⁴ 1988 ⁴	86.5	96.1	73.5	130.5	133.6	97.2	57.4		5.0
			69.9						3.0 4.7
	82.6	90.9		123.0	126.1	91.6	53.1		
	79.0	88.5	67.0	121.1	118.0	84.6	50.0		4.4
	77.0	87.6	66.8	117.9	113.1	79.3	47.5		4.3
1984 ^{4, 5}	75.2	86.1	66.5	113.6	107.9	77.8	43.8		4.3
1983 4, 5	76.2	85.5	66.8	111.9	107.2	79.7	43.8	19.4	4.8
1982 ^{4, 5}	77.9	85.1	66.3	112.7	109.3	82.7	44.1	19.5	5.2
1981 4, 5	79.4	85.0	65.9	114.2	110.7	83.1	45.5	19.6	5.6
1980 ^{4, 5}	81.1	87.9	68.8	118.2	112.3	81.4	46.7	19.0	5.5
Hispanic ⁹									
2001 ⁴	98.0	71.8	47.6	110.4	150.5	150.3	106.5	53.2	12.5
2000 4	97.3	74.2	51.0	110.6	150.2	149.5	101.5	48.4	12.4
1999 ⁴	93.4	73.8	52.4	107.6	143.3	143.6	93.3	44.1	11.3
1998 ⁴	90.1	73.9	53.0	107.8	135.0	136.0	85.4	40.1	12.0
997 ⁴	91.4	75.2	55.0	109.5	139.1	135.0	86.1	42.0	12.2
996 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	12.0
1994 ⁴	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	14.0
1992 ⁴	95.2	72.9	51.0	110.5	140.5	138.3	91.8	48.1	14.1
1992 ⁴	93.7	72.4	50.5	109.6	135.4	137.5	89.1	47.7	14.3
1991 ⁴ . 8	93.7 89.6	65.9	45.9	98.9	129.8	137.5	88.1	50.8	14.2
1330	03.0	05.5	40.5	30.3	123.0	101.7	00.1	50.0	10.7

--- Data not available.

1 Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years. 2 Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.

3 Includes races other than white and black. 4 Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see Technical notes.

5 Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes. 6 Births to unmarried women are estimated for the United States from data for registration areas in which marital status of mother was reported; see Technical notes.

7 Based on a 50-percent sample of births. 8 Rates for 1990 based on data for 48 States and the District of Columbia which reported Hispanic origin on the birth certificate. Rate shown for ages 35-39 years is based on births to unmarried

women aged 35-44 years. 9 Includes all persons of Hispanic origin of any race.

NOTES: Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S.Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.

Table 19. Number and percent of births to unmarried women by race and Hispanic origin of mother: United States, each State and territory, 2001

[By place of residence]

		Bir	ths to unma	rried wom	en				Percent u	unmarried		
		Wh	nite	Bla	ack			Wł	nite	Bla	ack	_
State	All races ¹	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²	All races ¹	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²
United States ³	1,349,249	879,848	524,371	414,533	404,503	361,689	33.5	27.7	22.5	68.4	68.6	42.5
Alabama	20,777	7,638	7,072	13,028	13,023	557	34.4	18.8	18.4	67.9	67.9	24.7
Alaska	3,281	1,422	1,205	196	167	225	32.8	22.3	21.6	44.4	43.0	34.5
Arizona	33,776	27,790	9,450	1,764	1,632	18,400	39.5	36.9	24.3	63.9	63.8	50.9
Arkansas	13,378	7,546	6,558	5,642	5,635	979	36.1	26.2	25.1	75.9	75.9	37.0
California	172,764	141,305	33,422	21,145	20,395	108,473	32.7	33.0	20.0	62.6	62.7	41.5
Colorado	16,732	14,625	7,201	1,525	1,447	7,613	25.0	24.0	17.2	51.3	51.1	38.6
Connecticut	12,433	8,814	4,538	3,391	3,259	4,271	29.2	24.8	16.0	66.0	66.1	61.8
Delaware	4,290	2,304	1,713	1,952	1,936	598	39.9	30.0	26.0	72.0	72.1	55.2
District of Columbia	4,376	617	131	3,727	3,693	491	57.4	24.0	7.8	76.7	76.9	54.9
Florida	80,221	47,056	28,635	31,784	31,111	19,315	39.0	30.9	27.5	67.4	67.7	38.9
Georgia	49,834	20,554	14,413	28,740	28,470	6,162	37.3	24.0	20.8	65.7	66.1	39.3
Hawaii	5,632	706	528	110	97	989	33.0	18.5	16.9	20.9	19.6	44.2
Idaho Illinois	4,557 63.449	4,281 37.345	3,260 20,316	35 25,401	32 25.265	942 17,150	22.0 34.5	21.5 26.2	19.3 20.0	40.7 76.5	41.0 76.6	34.2 41.9
Indiana	30,676	23.146	20,310	7,312	7,260	2,820	34.5	30.7	20.0	76.5	75.8	41.8
lowa	10,824	9,589	8,672	942	921	2,820	28.8	27.1	29.2	75.8	75.8	47.0
Kansas	11.628	9,309	7,202	1,947	1,927	2,063	20.0	26.9	20.2	74.4	74.5	41.4
Kentucky	17,317	13,639	13,038	3,540	3,529	2,003	31.7	20.9	24.5	70.0	70.1	40.3
Louisiana	30,267	9,664	9,153	20,218	20,196	532	46.3	26.2	27.5	74.7	71.9	34.2
Maine	4,369	4,196	4,123	61	20,190	65	31.8	31.6	31.5	39.9	39.4	37.6
Maryland	25,198	10,381	8,093	14,429	14,326	2,303	34.4	23.0	20.3	59.5	59.6	43.4
Massachusetts	21,641	15,961	11,064	4,835	3,830	5,756	26.7	23.5	18.6	58.9	58.5	60.9
Michigan	45,742	27,719	24,284	17,332	17,228	3,071	34.3	26.3	25.2	73.4	73.6	41.9
Minnesota	17,782	13,174	10,958	2,739	2,684	2,179	26.3	22.7	20.6	57.5	57.3	48.0
Mississippi	19,582	5,111	4,819	14,230	14,227	290	46.3	22.4	21.8	75.6	75.6	40.3
Missouri	26,235	17,345	16,101	8,504	8,471	1,261	34.8	27.8	27.1	76.4	76.4	42.3
Montana	3,440	2,437	2,188	26	24	153	31.4	25.8	24.9	61.9	63.2	40.6
Nebraska	6,870	5,542	4,211	939	925	1,212	27.7	24.6	22.1	68.4	68.3	41.1
Nevada	11,679	9,078	4,407	1,739	1,677	4,635	37.2	34.5	28.8	69.1	69.5	42.7
New Hampshire	3,542	3,416	3,035	85	65	190	24.2	24.5	23.6	40.9	40.9	37.3
New Jersey	33,807	19,831	8,425	13,357 297	12,298	12,380	29.2 46.3	23.3 42.6	13.3 27.4	64.9	65.7 57.1	52.7 52.2
New Mexico	12,552	9,714	2,404		277	7,375	46.3 35.7			58.1		52.2 59.2
New York North Carolina	90,746 40,507	52,619	23,366 13,821	34,652 18,693	30,849 18,628	32,298 6,723	34.3	28.9 24.0	17.9 19.5	66.4 65.8	66.0 65.9	46.2
North Dakota	2,127	20,513 1,503	1,399	29	29	42	27.9	24.0	22.2	28.4	28.7	30.0
Ohio	53,239	35,425	33,184	17,363	17,230	2,271	35.1	28.2	27.5	75.5	75.7	49.4
Oklahoma	17,637	11,565	9,587	3,253	3,227	2,035	35.2	20.2	27.9	70.5	70.6	41.2
Oregon	13,764	12,315	9,086	609	586	3,256	30.4	29.8	27.2	64.5	64.5	41.2
Pennsylvania	48,536	32,400	27,318	15,480	15,009	4,980	33.8	27.2	24.7	76.5	76.5	60.8
Rhode Island	4,543	3,532	1,929	757	679	1,302	35.7	32.2	25.1	68.1	68.3	59.3
South Carolina	22,343	8,617	7,382	13,521	13,494	1,259	40.1	24.0	22.4	71.4	71.5	42.1
South Dakota	3,516	2,053	1,956	44	42	134	33.5	24.2	23.7	43.6	43.3	52.1
Tennessee	27,974	15,608	13,940	12,064	12,044	1,698	35.7	25.9	24.7	72.7	72.7	43.5
Texas	113,420	86,986	28,958	25,159	24,859	57,981	31.0	27.9	20.8	61.7	61.8	33.6
Utah	8,327	7,573	5,004	152	144	2,539	17.4	16.7	12.9	44.4	44.3	38.8
Vermont	1,972	1,939	1,863	14	13	11	31.0	31.1	31.0	*	*	
Virginia	29,930	15,440	11,830	14,011	13,925	3,648	30.3	21.8	19.1	62.9	63.1	39.9
Washington	22,880	18,519	13,399	1,779	1,726	4,961	28.8	27.5	24.6	53.4	53.6	40.9
West Virginia	6,638	6,072	6,024	541	537	30	32.5	31.0	31.0	76.8	76.9	36.1
Wisconsin Wyoming	20,686 1,813	14,325 1,592	12,105 1,364	5,411 29	5,371 28	2,303 236	29.9 29.6	24.1 27.8	22.3 26.4	82.4 44.6	82.4 43.8	44.7 41.5
Puerto Rico	28,529	25,495		3,024			51.1	49.7		66.3		
Virgin Islands	1,115	23,495	29	890	794	255	66.8	58.6	36.7	72.4	72.8	66.2
Guam	1,985	32	29 27	5	794 5	255	55.7	13.7	12.9	12.4	12.0	00.2
American Samoa	469	1	21	-			28.3	*	12.9	*		
onoan oannoa minin	826	4					57.5	*				

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

Table 20. Birth rates by age and race of father: United States, 1980-2001

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

Veer and rece of	15 54					Age of father				
Year and race of father	15-54 years ¹	15-19 years ²	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years	55 years and over
All races ³										
2001	50.6	18.7	81.7	116.9	106.5	58.4	22.2	7.4	2.4	0.4
2000	51.6	20.2	84.5	117.4	105.8	57.4	22.0	7.4	2.5	0.3
1999	50.8	21.0	83.8	114.8	101.6	54.9	21.1	7.2	2.5	0.3
1998 1997	51.0 50.4	21.6 22.2	84.8 83.4	112.6 108.5	99.2 95.7	53.9 52.1	20.9 20.6	7.2 7.1	2.5 2.5	0.3 0.3
1996	51.1	23.0	84.4	100.5	94.3	51.5	20.0	6.9	2.5	0.3
1995	52.0	24.3	86.0	107.2	93.3	51.0	20.3	7.1	2.6	0.3
1994	53.2	25.0	87.3	108.8	93.3	50.9	20.2	7.2	2.6	0.3
1993	54.4	24.8	87.1	110.8	93.5	51.1	20.2	7.3	2.7	0.4
1992 1991	55.8 57.1	24.6 24.8	87.7 88.0	113.1 114.7	94.2 95.1	51.3 51.8	20.4 20.2	7.3 7.5	2.7 2.7	0.4 0.4
1990	58.4	23.5	88.0	116.4	97.8	53.0	21.0	7.5	2.8	0.4
1989	57.2	21.9	85.4	114.3	94.8	51.3	20.4	7.4	2.7	0.6
1988	55.8	19.6	82.4	111.6	93.2	49.9	19.9	7.1	2.7	0.4
1987	55.0	18.3	80.5	109.9	91.2	48.6	19.0	6.9	2.6	0.4
1986 1985	54.8 55.6	17.9 18.0	80.3 81.2	109.6 112.3	90.3 91.1	46.8 47.3	18.3 18.1	6.7 6.6	2.6 2.5	0.4 0.4
1984 ⁴	55.0	17.8	80.7	111.4	89.9	46.0	17.8	6.3	2.3	0.4
1983 4	55.1	18.2	82.6	113.0	89.1	45.2	17.4	6.4	2.3	0.4
19824	56.4	18.6	86.5	117.3	90.3	44.5	17.5	6.4	2.3	0.4
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										
2001	48.3	15.6	75.5	116.7	107.2	57.0	20.6	6.6	2.1	0.3
2000	48.9	16.8	77.6	116.4	105.9	55.7	20.4	6.5	2.1	0.3
1999	48.2	17.5	76.8	113.4	101.7	53.4	19.6	6.4	2.1	0.3
1998 1997	48.3 47.7	18.0 18.2	77.5 76.1	110.9 106.8	99.1 95.3	52.5 50.6	19.4 19.1	6.4 6.3	2.2 2.1	0.3 0.3
1996	48.4	18.8	77.2	106.4	94.0	50.2	19.0	6.2	2.1	0.3
1995	49.2	19.7	78.5	105.7	92.9	49.6	19.0	6.3	2.2	0.2
1994	50.0	19.8	78.5	106.4	92.5	49.3	18.9	6.3	2.2	0.3
1993	50.9 52.2	19.2	77.9 78.2	108.0 110.1	92.4 93.2	49.2	18.6 18.8	6.4 6.4	2.2 2.2	0.2 0.3
1992 1991	53.3	18.9 19.1	78.4	111.5	93.6	49.3 49.7	18.5	6.5	2.2	0.3
1990	54.6	18.1	78.3	113.2	96.1	50.9	19.2	6.5	2.2	0.3
1989	53.3	16.7	75.9	110.8	93.0	49.1	18.7	6.3	2.1	0.4
1988	52.2	14.8	73.7	108.3	91.2	47.6	18.1	6.1	2.1	0.3
1987 1986	51.6 51.7	13.9 13.8	72.8 73.3	107.0 107.0	89.5 88.7	46.2 44.4	17.3 16.6	5.9 5.7	2.0 2.0	0.3 0.3
1985	52.6	14.0	74.7	109.9	89.5	44.8	16.3	5.6	1.9	0.3
1984 ⁴	51.8	14.0	74.3	108.8	87.9	43.5	16.0	5.3	1.9	0.3
1983 ⁴	52.0	14.4	76.3	110.2	86.8	42.6	15.5	5.3	1.8	0.3
1982 ⁴ 1981 ⁴	53.1 52.9	14.9 15.0	80.1 81.7	114.2 115.8	87.5 85.8	41.7 40.3	15.6 15.0	5.3 5.2	1.9 1.8	0.3 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	00.1		0.110		0110	0011	1010	011		010
2001	64.9	37.1	126.6	130.7	100.2	57.9	28.3	12.2	5.0	1.0
2000	67.6	40.1	133.8	135.6	99.6	57.9	28.3	12.0	5.3	1.0
1999	66.9	41.5	133.5	134.0	95.4	55.2	26.6	11.6	5.3	1.0
1998 1997	68.1 68.0	43.3 45.6	136.8 136.6	134.4 130.2	94.3 91.8	54.9 53.3	26.7 26.1	11.9 11.7	5.3 5.5	1.0 1.1
1997	68.3	45.0	138.0	127.2	89.3	52.3	25.7	11.6	5.5	1.1
1995	70.1	50.5	140.5	126.6	89.6	52.6	25.7	12.1	5.6	1.1
1994	74.9	54.6	150.5	131.9	92.9	54.2	26.4	13.0	6.0	1.1
1993 1992	78.3 81.0	56.6 57.4	153.8 158.0	136.0 140.1	95.3 96.8	56.6 56.9	27.7 28.4	13.5 13.9	6.4 6.2	1.3 1.4
1992	83.4	58.0	158.5	143.3	100.1	58.8	29.4	14.2	6.7	1.4
1990	84.9	55.2	158.2	144.9	103.2	60.4	31.1	15.0	7.1	1.4
1989	84.1	52.9	153.4	143.5	101.4	59.9	31.1	14.9	6.9	2.7
1988	80.7	48.1	144.1	137.9	100.0	58.0	30.6	14.3	6.9	1.4
1987 1986	78.3 77.2	44.6 42.6	136.1 131.4	133.9 131.6	97.4 97.4	58.0 58.0	30.0 29.1	13.8 13.5	6.6 6.7	1.3 1.3
1985	77.2	42.0	129.5	132.7	97.4	59.4	29.1	13.5	6.5	1.3
1984 ⁴	76.7	40.9	128.0	132.2	98.3	58.4	29.3	13.3	6.1	1.2
1984 ⁴ 1983 ⁴	77.2	40.7	129.1	134.4	99.0	59.6	29.6	13.5	6.0	1.2
1982 4	79.5	40.3	133.4	141.2	103.6	61.1	29.6	13.9	6.0	1.2
1981 ⁴	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

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

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all men (including Hispanic men) are classified only according to their race; see Technical notes. Age of father was not stated for 13.5 percent of births in 2001. Denominators for population-based rates for 1991-2001 are derived from the 1990 U.S.Census. As a result, rates for more recent years are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin; see Technical notes.

Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race and Hispanic origin of mother: United States, 2001

	-		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 ¹									
All ages	4,025,933	239,637	621,917	1,253,033	856,770	998,495	56,081	78.3	25.2
Under 15 years	7,781	5,896	1,586	-	-	-	299	*	*
15-19 years 15 years	445,944 20,150	38,690 6,067	225,325 13,483	151,982	22,409	-	7,538 600	39.8	*
16 years	45,367	6,000	37,121	1,267	-	-	979	2.9	*
17 years	79,807	6,872	58,783	12,535	249	-	1,368	16.3	*
18 years	126,361	8,951	58,662	52,894	3,805	-	2,049	45.6	*
19 years 20-24 years	174,259 1,021,627	10,800 66,283	57,276 211,265	85,286 446,403	18,355 227,492	- 56,135	2,542 14,049	60.4 72.5	5.6
25-29 years	1,058,265	61,013	103,669	318,213	273,991	287,570	13,809	84.2	27.5
30-34 years	942,697	40,208	53,120	213,384	212,460	411,527	11,998	90.0	44.2
35-39 years	451,723	21,306	22,294	101,229	99,468	200,933	6,493	90.2	45.1
40 years and over	97,896	6,241	4,658	21,822	20,950	42,330	1,895	88.6	44.1
White, total									
All ages	3,177,626	216,272	463,173	951,942	669,254	836,595	40,390	78.3	26.7
Under 15 years	4,095	3,113	822	-	-	-	160	*	*
15-19 years	318,563	33,396	157,826	107,026	15,103	-	5,212	39.0	*
15 years	12,584	4,143	8,052		-	-	389	*	*
16 years	30,510	4,821	24,124	915	-	-	650	3.1	*
17 years 18 years	56,098 91,284	6,117 8,279	40,218 42,486	8,647 36,528	169 2,550	-	947 1,441	16.0 43.5	*
19 years	128,087	10,036	42,946	60,936	12,384	-	1,785	58.1	*
20-24 years	779,529	62,222	160,950	333,324	169,312	43,588	10,133	71.0	5.7
25-29 years	850,343	56,895	81,843	247,880	216,633	237,000	10,092	83.5	28.2
30-34 years	777,294	36,266	41,921	168,060	172,054	350,281	8,712	89.8	45.6
35-39 years 40 years and over	368,816 78,986	18,954 5,426	16,536 3,275	79,046 16,606	79,621 16,531	169,935 35,791	4,724 1,357	90.3 88.8	46.7 46.1
White, non-Hispanic									
All ages	2,326,578	37,908	238,210	704,407	559,162	768,503	18,388	88.0	33.3
Under 15 years	1,581	1,241	286	-	-		54	*	*
15-19 years	190,161	9,827	92,276	74,998	11,131	-	1,929	45.8	*
15 years	5,765	1,819	3,811	-	-	-	135	*	*
16 years 17 years	15,538 31,409	1,792 1,831	12,988 23.718	524 5,431	- 116	-	234 313	3.4 17.8	*
18 years	55,409	2,120	25,732	25,252	1,774	_	531	49.2	*
19 years	82,040	2,265	26,027	43,791	9,241	-	716	65.2	*
20-24 years	523,027	11,225	88,927	245,088	135,883	37,739	4,165	80.7	7.3
25-29 years	622,361	7,542	33,123	181,362	180,883	214,996	4,455	93.4	34.8
30-34 years 35-39 years	625,435 300,007	4,745 2,564	15,467 6,614	127,603 62,020	147,864 68,958	325,224 157,281	4,532 2,570	96.7 96.9	52.4 52.9
40 years and over	64,006	764	1,517	13,336	14,443	33,263	683	96.4	52.5
Black, total									
All ages	606,156	14,593	133,649	237,428	137,536	72,315	10,635	75.1	12.1
Under 15 years	3,455	2,630	699	-	-	-	126	*	*
15-19 years	110,843 6,881	4,484 1,768	59,375	38,855	6,209	-	1,920 190	41.4	*
15 years 16 years	13,183	1,016	4,923 11,599	- 294	-	-	274	2.3	*
17 years	20,778	604	16,399	3,368	65	-	342	16.8	*
18 years	30,516	522	14,154	14,279	1,066	-	495	51.1	*
19 years	39,485	574	12,300	20,914	5,078	-	619	66.9	*
20-24 years	199,221	2,518	43,340	94,981 52 546	47,051	8,331	3,000	76.6	4.2
25-29 years 30-34 years	137,400 94,660	1,967 1,591	17,054 7,983	52,546 31,711	40,601 27,087	22,928 24,392	2,304 1,896	85.9 89.7	17.0 26.3
35-39 years	49,065	1,027	4,209	15,689	13,585	13,465	1,090	89.1	20.3

See footnotes at end of table.

Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race and Hispanic origin of mother: United States, 2001--Con.

			Year	s of school com	pleted by moth	er		Percent	Percent
Age and race of mother	Total	0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not Stated	12 years or more	16 years or more
Black, non-Hispanic									
All ages	589,917	13,568	130,177	231,405	134,231	70,655	9,881	75.2	12.2
Under 15 years	3,401	2,589	689	-	-	-	123	*	,
15-19 years	108,252	4,338	57,987	38,044	6,053	-	1,830	41.4	
15 years	6,735	1,744	4,808	-	-	-	183	*	
16 years	12,879	993	11,337	287	-	-	262	2.3	
17 years	20,293	587	16,054	3,261	61	-	330	16.6	
18 years	29,794 38,551	492 522	13,799 11,989	13,991 20,505	1,038 4,954	-	474 581	51.3 67.1	
19 years 20-24 years	194,391	2,253	42,324	92,933	4,954	8.137	2,811	76.7	4.2
25-29 years	133.491	1.736	16,486	51,117	39,603	22,407	2,142	86.1	17.1
30-34 years	91.710	1,402	7.684	30,597	26,439	23,853	1.735	89.9	26.5
35-39 years	47.494	904	4,048	15,172	13,260	13,144	966	89.4	28.2
40 years and over	11,178	346	959	3,542	2,943	3,114	274	88.0	28.6
Hispanic ²									
All ages	851,851	179,473	227,530	250,707	111,090	65,828	17,223	51.2	7.9
Under 15 years	2,555	1,911	542	-	-	-	102	*	
15-19 years	130,007	23,699	66,666	32,658	4,105	-	2,879	28.9	
15 years	6,936	2,347	4,356	-	-	-	233	*	
16 years	15,165	3,047	11,360	394	-	-	364	2.7	
17 years	25,023	4,306	16,780	3,315	59	-	563	13.8	
18 years	36,298	6,175	17,025	11,517	804	-	777	34.7	
19 years	46,585	7,824	17,145	17,432	3,242	-	942	45.3	
20-24 years	258,431	51,318	72,628	89,383	34,099	5,895	5,108	51.1	2.3
25-29 years	227,910	49,618	49,149	67,132	36,004	21,512	4,495	55.8	9.6
30-34 years 35-39 years	150,352 67,952	31,730 16,506	26,679 10,084	40,986 17,225	24,180 10,618	23,869 12,141	2,908 1,378	60.4 60.1	16.2 18.2
40 years and over	67,952 14,644	4,691	1,782	3,323	2,084	2,411	353	54.7	16.9

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

Table 22. Number of live births and percent distribution by weight gain of mother during pregnancy and median weight gain, according to period of gestation, race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 2001

					Weig	ght gain dui	ring pregna	ncy			
Period of gestation ¹ and race and Hispanic origin of mother	All births	Less than 16 pounds	16-20 pounds	21-25 pounds	26-30 pounds	31-35 pounds	36-40 pounds	41-45 pounds	46 pounds or more	Not stated	Median weight gain in pounds
						Number					
All gestation periods ² All races ³ White, total White, non-Hispanic Black, non-Hispanic	3,498,174 2,749,388 2,159,553 572,382 557,366	393,209 285,272 208,444 90,251 88,619	358,483 270,633 198,846 67,592 66,020	449,047 355,449 278,463 68,374 66,472	579,607 464,430 370,894 84,442 82,141	445,101 365,000 299,595 57,326 55,474	406,092 329,790 271,635 56,957 55,282	218,886 179,328 150,450 30,203 29,258	403,635 321,721 270,858 67,208 65,208	244,114 177,765 110,368 50,029 48,892	
Hispanic ⁴	590,780	77,006	72,247	77,406	93,720	65,584	58,239	28,979	51,450	66,149	
Under 37 weeks All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴	425,764 305,462 235,431 100,579 98,645 70,376	69,898 45,048 32,420 21,843 21,558 12,667	53,027 36,284 26,889 14,030 13,791 9,471	55,116 40,535 31,521 11,755 11,489 9,094	62,892 46,697 36,756 13,208 12,940 10,060	42,636 32,768 26,404 7,938 7,747 6,403	38,753 29,356 23,890 7,740 7,571 5,503	20,889 16,304 13,665 3,771 3,680 2,662	43,322 32,776 27,768 9,050 8,844 5,055	39,231 25,694 16,118 11,244 11,025 9,461	
37-39 weeks All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴	1,757,398 1,386,901 1,097,362 279,477 272,359 290,059	192,115 141,260 104,370 41,961 41,198 36,991	182,261 138,932 102,804 32,708 31,964 36,339	233,262 185,022 146,163 34,685 33,736 39,088	299,976 240,998 193,925 42,686 41,555 47,132	229,154 187,916 155,283 29,208 28,307 32,736	205,196 166,645 137,818 28,630 27,836 28,804	108,521 88,789 74,797 15,084 14,648 14,009	192,651 153,623 129,791 32,021 31,100 24,130	114,262 83,716 52,411 22,494 22,015 30,830	
40 weeks and over All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴	1,306,249 1,050,641 823,118 190,517 184,647 227,948	130,271 98,336 71,331 26,195 25,615 27,058	122,654 95,057 68,941 20,709 20,123 26,297	160,080 129,456 100,533 21,820 21,137 29,045	215,984 176,143 139,857 28,428 27,529 36,292	172,814 143,928 117,670 20,101 19,345 26,299	161,643 133,402 109,674 20,505 19,795 23,800	89,234 74,050 61,884 11,300 10,883 12,228	167,149 134,951 113,067 26,023 25,153 22,134	86,420 65,318 40,161 15,436 15,067 24,795	
					Perce	ent distribut	ion				
All gestation periods ² All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴	100.0 100.0 100.0 100.0 100.0 100.0	12.1 11.1 10.2 17.3 17.4 14.7	11.0 10.5 9.7 12.9 13.0 13.8	13.8 13.8 13.6 13.1 13.1 14.8	17.8 18.1 16.2 16.2 17.9	13.7 14.2 14.6 11.0 10.9 12.5	12.5 12.8 13.3 10.9 10.9 11.1	6.7 7.0 7.3 5.8 5.8 5.5	12.4 12.5 13.2 12.9 12.8 9.8	 	30.5 30.6 30.8 30.0 30.0 29.0
Under 37 weeks All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴	100.0 100.0 100.0 100.0 100.0 100.0	18.1 16.1 14.8 24.5 24.6 20.8	13.7 13.0 12.3 15.7 15.7 15.5	14.3 14.5 14.4 13.2 13.1 14.9	16.3 16.7 16.8 14.8 14.8 16.5	11.0 11.7 12.0 8.9 8.8 10.5	10.0 10.5 10.9 8.7 8.6 9.0	5.4 5.8 6.2 4.2 4.2 4.2 4.4	11.2 11.7 12.7 10.1 10.1 8.3	 	27.8 28.8 30.1 25.5 25.5 25.8
37-39 weeks All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴	100.0 100.0 100.0 100.0 100.0 100.0	11.7 10.8 10.0 16.3 16.5 14.3	11.1 10.7 9.8 12.7 12.8 14.0	14.2 14.2 14.0 13.5 13.5 15.1	18.3 18.5 18.6 16.6 16.6 18.2	13.9 14.4 14.9 11.4 11.3 12.6	12.5 12.8 13.2 11.1 11.1 11.1	6.6 6.8 7.2 5.9 5.9 5.4	11.7 11.8 12.4 12.5 12.4 9.3	 	30.4 30.5 30.8 30.1 30.1 28.8
40 weeks and over All races ³ White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ⁴	100.0 100.0 100.0 100.0 100.0 100.0	10.7 10.0 9.1 15.0 15.1 13.3	10.1 9.6 8.8 11.8 11.9 12.9	13.1 13.1 12.8 12.5 12.5 14.3	17.7 17.9 16.2 16.2 17.9	14.2 14.6 15.0 11.5 11.4 12.9	13.3 13.5 14.0 11.7 11.7 11.7	7.3 7.5 7.9 6.5 6.4 6.0	13.7 13.7 14.4 14.9 14.8 10.9	 	30.8 30.9 31.8 30.4 30.4 30.1

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

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

Table 23. Percent low birthweight by weight gain of mother during pregnancy, period of gestation, and race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 2001

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

Period of gestation ¹					Weight	gain during pr	egnancy			
and race and Hispanic origin of mother	Total	Less than 16 pounds	16-20 pounds	21-25 pounds	26-30 pounds	31-35 pounds	36-40 pounds	41-45 pounds	46 pounds or more	Not stated
All gestation periods ²										
All races ³	7.9	13.7	10.5	8.1	6.6	5.5	5.3	5.4	5.8	11.9
White, total	6.8	11.5	9.1	7.2	5.8	4.9	4.8	5.0	5.3	10.1
White, non-Hispanic	6.8	11.8	9.6	7.3	5.8	4.9	4.8	5.0	5.5	10.7
Black, total	13.0	20.6	16.2	13.0	10.8	9.2	8.6	7.8	8.0	18.5
Black, non-Hispanic	13.1	20.7	16.3	13.1	10.9	9.3	8.7	7.8	8.0	18.5
Hispanic, total ⁴	6.8	10.9	8.0	6.7	5.7	5.0	4.6	4.7	4.5	9.2
Mexican	6.4	10.1	7.2	6.0	5.2	4.6	4.2	4.6	4.1	8.5
Puerto Rican	9.4	15.6	12.9	10.3	8.5	6.5	6.5	5.6	5.5	14.9
Cuban	6.5	12.8	8.3	7.2	5.1	5.5	4.6	4.3	5.1	14.8
Central and South American	6.5	10.9	8.0	6.6	5.7	5.2	4.2	3.9	4.3	9.6
Other and unknown Hispanic	8.1	13.7	10.4	8.4	6.6	5.7	5.6	5.5	5.6	10.7
Under 37 weeks										
All races ³	43.3	55.4	47.9	42.4	38.4	35.8	35.1	35.7	36.0	53.5
White, total	41.3	52.4	46.1	40.7	37.0	34.8	34.1	35.5	35.7	51.0
White, non-Hispanic	42.6	54.7	48.9	42.3	38.3	35.9	35.3	36.3	36.9	54.8
Black, total	50.1	62.0	53.1	48.7	43.9	41.0	39.4	37.2	37.5	60.2
Black. non-Hispanic	50.2	62.0	53.2	48.8	44.1	41.0	39.5	37.2	37.5	60.2
Hispanic ⁴	36.7	46.7	37.8	34.9	32.0	30.1	28.7	31.5	28.9	44.0
37-39 weeks										
All races ³	4.0	5.9	5.2	4.3	3.6	3.2	3.0	3.1	3.1	4.9
White, total	3.4	5.0	4.4	3.7	3.1	2.7	2.7	2.8	2.8	4.1
White, non-Hispanic	3.4	5.1	4.4	3.7	3.0	2.7	2.6	2.8	2.8	4.1
Black, total	6.6	9.0	8.0	7.1	6.0	5.4	4.9	4.8	4.7	7.9
Black, non-Hispanic	6.6	9.0	8.1	7.2	6.0	5.5	5.0	4.8	4.7	8.0
lispanic ⁴	3.7	5.0	4.5	3.9	3.5	3.1	2.9	2.8	2.5	4.1
40 weeks and over										
All races ³	1.6	2.8	2.3	1.8	1.4	1.2	1.0	1.0	1.0	2.0
White, total	1.3	2.2	2.0	1.5	1.2	1.0	0.9	0.9	0.9	1.8
White, non-Hispanic	1.2	2.2	1.9	1.5	1.2	1.0	0.9	0.8	0.8	1.7
Black, total	2.9	4.7	4.0	3.2	2.7	2.2	2.0	1.9	1.8	3.3
Black, non-Hispanic	3.0	4.8	4.1	3.2	2.8	2.3	2.0	2.0	1.8	3.3
lispanic ⁴	1.5	2.4	2.0	1.5	1.3	1.1	1.1	0.9	1.1	2.0
	1.5	2.4	2.0	1.5	1.0	1.1	1.1	0.3	1.1	2.0

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

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

Table 24. Percent of births with selected medical or health characteristics, by detailed race of mother, by place of birth of mother: United States, 2001

Characteristic	All			American			Asian or Pa	cific Islander		
Characteristic	races	White	Black	Indian ¹	Total	Chinese	Japanese	Hawaiian	Filipino	Other
All Births										
Mother										
Prenatal care beginning in the first										
trimester	83.4	85.2	74.5	69.3	84.0	87.0	90.1	79.1	85.0	82.7
Late or no prenatal care Smoker ²	3.7 12.0	3.2 13.0	6.5 9.0	8.2 19.9	3.4 2.8	2.4 0.7	2.0 3.8	4.8 14.8	3.0 3.2	3.8 2.3
Drinker ³	0.9	0.8	1.0	2.8	0.3	0.2	0.8	14.0	0.4	0.3
Weight gain of less than 16 lbs 4	12.1	11.1	17.3	16.9	9.4	6.9	11.6	8.9	8.1	10.0
Median weight gain ⁴	30.5	30.6	30.0	29.8	30.1	30.3	26.3	32.7	30.6	30.0
Cesarean delivery rate	24.4	24.3	25.9	21.6	23.3	22.9	20.1	20.2	26.6	23.0
Infant										
Preterm births 5	11.9	11.0	17.5	13.2	10.3	7.7	8.8	14.2	12.5	10.3
Birthweight Very low birthweight ⁶	1.4	1.2	3.0	1.3	1.0	0.7	0.7	1.5	1.2	1.1
Low birthweight 7	1.4 7.7	6.7	3.0 13.0	7.3	7.5	0.7 5.3	0.7 7.3	7.9	1.2 8.7	7.8
4,000 grams or more ⁸	9.4	10.4	5.2	11.6	5.5	6.4	4.7	8.8	5.6	5.2
5-minute Apgar score of less than 7 9	1.4	1.2	2.3	1.4	1.0	0.7	0.9	1.3	1.1	1.0
Births to mothers born in the 50 States and DC Mother										
Drepotel core beginning in the first										
Prenatal care beginning in the first trimester	85.1	87.6	74.4	69.3	83.0	92.2	92.1	79.3	84.9	79.2
Late or no prenatal care	3.2	2.4	6.4	8.0	3.7	1.4	1.6	4.7	3.1	4.5
Smoker 2	14.3	15.2	10.1	20.8	9.3	3.5	5.5	14.9	7.9	8.6
Drinker ³	1.0	0.9	1.1	2.9	0.8	*	*	1.0	0.7	0.8
Weight gain of less than 16 lbs ⁴ Median weight gain ⁴	11.8 30.7	10.5 30.8	17.6 30.0	17.0 30.0	8.8 30.8	6.5 30.5	10.1 27.8	8.7 32.8	8.9 30.9	8.8 30.9
Cesarean delivery rate	24.6	24.5	25.6	21.4	20.7	21.0	24.9	20.2	21.0	19.5
Infant										
Preterm births ⁵	12.3	11.1	18.0	13.3	12.2	10.2	11.2	14.2	12.7	11.8
Birthweight	12.0		10.0	10.0	12.2	10.2	11.2	14.2	12.7	11.0
Very low birthweight ⁶	1.5	1.2	3.1	1.3	1.3	1.0	0.9	1.5	1.2	1.3
Low birthweight 7	8.0	6.9	13.4	7.3	8.3	7.6	8.2	8.0	9.3	8.0
5-minute Apgar score of less than 7 ⁹ .	9.7 1.4	10.7 1.2	4.7 2.3	11.9 1.4	7.0 1.1	6.0 *	6.0 1.4	8.8 1.3	6.0 1.1	7.3 1.1
Births to mothers born outside the 50 States and DC Mother										
Prenatal care beginning in the first										
trimester	77.5	76.2	75.2	69.8 10.6	84.2	86.5	88.8	72.1	85.0	83.2
Late or no prenatal care Smoker ²	5.6 2.0	6.0 2.2	7.1 1.3	10.6 4.9	3.3 1.5	2.5 0.4	2.2 2.8	*	3.0 2.0	3.7 1.5
Drinker ³	0.4	0.4	0.3	*	0.2	0.4	1.1	*	0.3	0.2
Weight gain of less than 16 lbs 4	13.3	14.0	14.7	16.1	9.5	7.0	12.6	17.7	7.9	10.2
Median weight gain ⁴ Cesarean delivery rate	29.0 23.8	28.8 23.3	29.5 28.0	27.9 24.4	30.0 23.9	30.3 23.1	25.7 16.9	28.5 19.1	30.6 28.0	29.4 23.5
Infant	20.0	20.0	20.0	2	20.0	20.1	10.0	10.1	20.0	20.0
Preterm births ⁵	10.7	10.6	10.0	10.0	0.0	7 4	7.0	*	10 /	10.1
Birthweight	10.7	10.6	13.8	12.2	9.9	7.4	7.3		12.4	10.1
Verv low birthweight 6	1.1	1.0	2.4	1.4	1.0	0.7	0.6	*	1.2	1.0
Low birthweight ⁷	6.5	5.9	9.4	8.5	7.3	5.1	6.7	*	8.5	7.7
4,000 grams or more ⁸ 5-minute Apgar score of less than 7 ⁹	8.6 1.1	9.5 1.0	8.1 1.8	6.6 1.4	5.2 0.9	6.4 0.7	3.8 0.6	*	5.5 1.1	5.0 1.0

1

2 3 4 5

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator. Includes births to Aleuts and Eskimos. Excludes data for California which did not report tobacco use on the birth certificate. Excludes data for California, 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).

6 7 8

7 Birthweight of less that 2,500 grams (5 lb 8 oz).
 8 Equivalent to 8 lb 14 oz.
 9 Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

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

Table 25. Percent of births with selected medical or health characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 2001

						Origin of mot	her			
6 1				Hisp	anic			N	Ion-Hispani	с
Characteristic	All					Central	Other and			
	origins ¹	Total	Mexican	Puerto Rican	Cuban	and South American	unknown Hispanic	Total ²	White	Black
All Births										
Mother										
Prenatal care beginning in the first	00.4		74.0	70.4	01.0	/		05.4	00 F	745
trimester Late or no prenatal care	83.4 3.7	75.7 5.9	74.6 6.2	79.1 4.6	91.8 1.3	77.4 5.7	77.3 5.4	85.4 3.2	88.5 2.2	74.5 6.5
Smoker ³	12.0	3.2	2.4	9.7	3.0	1.3	6.8	13.8	15.5	9.1
Drinker ⁴	0.9	0.5	0.4	0.7	0.2	0.2	1.1	0.9	0.9	1.0
Weight gain of less than 16 lbs 5	12.1	14.7	16.1	12.8	8.0	12.2	12.6	11.6	10.2	17.4
Median weight gain ⁵	30.5	29.0	27.7	30.6	32.1	30.2	30.3	30.6	30.8	30.0
Cesarean delivery rate	24.4	23.6	22.9	24.4	34.6	25.3	23.4	24.7	24.5	25.9
Infant										
Preterm births ⁶ Birthweight	11.9	11.4	11.2	13.7	10.6	11.2	12.4	12.1	10.8	17.6
Very low birthweight ⁷	1.4	1.1	1.0	1.8	1.3	1.2	1.3	1.5	1.2	3.1
Low birthweight ⁸	7.7	6.5	6.1	9.3	6.5	6.5	8.0	8.0	6.8	13.1
4,000 grams or more ⁹	9.4	8.7	9.0	6.9	9.5	8.6	7.2	9.6	11.1	5.1
5-minute Apgar score of less than 7 ¹⁰	1.4	1.1	1.1	1.4	0.7	0.9	1.0	1.4	1.2	2.3
Births to mothers born in the 50 States and DC Mother										
Prenatal care beginning in the first										
trimester	85.1	79.0	78.7	78.7	91.0	83.0	77.8	85.7	88.7	74.4
Late or no prenatal care	3.2	4.5	4.6	4.7	1.7	3.5	5.0	3.0	2.2	6.4
Smoker ³ Drinker ⁴	14.3	6.6	5.3 0.8	11.0	4.1	4.6	8.7	15.0	16.1	10.1 1.1
Weight gain of less than 16 lbs ⁵	1.0 11.8	0.9 13.2	14.2	0.8 12.1	8.4	0.4 9.3	1.3 12.5	1.0 11.7	0.9 10.2	17.7
Median weight gain ⁵	30.6	29.0	27.7	30.6	32.1	30.2	30.3	30.6	30.8	30.0
Cesarean delivery rate	24.6	23.8	23.7	24.1	31.6	23.4	22.6	24.7	24.6	25.6
Infant										
Preterm births ⁶	12.3	12.4	12.2	13.8	10.7	11.6	12.8	12.3	10.9	18.1
Birthweight Very low birthweight ⁷	1.5	1.3	1.2	1.9	1.2	1.5	1.3	1.5	1.2	3.1
Low birthweight ⁸	8.0	7.4	6.9	9.5	6.6	7.5	8.3	8.1	6.8	13.5
4,000 grams or more ⁹	9.7	7.9	8.2	6.9	8.4	8.2	6.9	9.9	11.1	4.7
5-minute Apgar score of less than 7 ¹⁰	1.4	1.2	1.1	1.4	0.7	0.9	1.1	1.4	1.2	2.3
Births to mothers born outside the 50 States and D C Mother										
Prenatal care beginning in the first		_	_	_	_	_	_			
trimester	77.5	73.8	72.3	79.9	92.4	76.7	76.3	83.0	85.5	75.3
Late or no prenatal care Smoker ³	5.6 2.0	6.6 1.2	7.1 0.7	4.2 7.5	1.0 2.1	6.0 0.9	6.2 1.8	4.1 3.0	3.5 5.5	7.1 1.3
Drinker ⁴	2.0	0.3	0.7	7.5 0.7	2.1 *	0.9	0.5	3.0 0.5	5.5 0.9	0.3
Weight gain of less than 16 lbs ⁵	13.3	15.6	17.3	14.0	7.6	12.5	12.6	10.6	9.1	15.3
Median weight gain ⁵	29.0	27.6	26.1	30.3	32.0	30.0	30.1	30.2	30.6	29.0
Cesarean delivery rate	23.8	23.4	22.4	24.9	37.1	25.5	25.6	24.3	23.0	28.0
Infant										
Preterm births ⁶ Birthweight	10.7	10.9	10.7	13.4	10.6	11.2	11.1	10.5	9.4	14.0
Very low birthweight ⁷	1.1	1.0	1.0	1.8	1.3	1.2	1.0	1.3	1.0	2.5
Very low birthweight ⁷ Low birthweight ⁸	6.5	5.9	5.6	9.0	6.4	6.4	6.5	7.3	6.0	9.7
4 000 grams or more ⁹	8.6	9.2	9.5	6.9	10.4	8.7	8.1	7.8	10.8	8.0
5-minute Apgar score of less than 7 ¹⁰	1.1	1.0	1.1	1.2	0.7	0.9	0.7	1.1	0.9	1.8

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

Figure does not meet standards of reliability or precision; based on rewer than 20 bitrins in the numerator.
Includes origin not stated.
Includes races other than white and black.
Excludes data for California which did not report tobacco use on the birth certificate.
Excludes data for California, which did not report alcohol use on the birth certificate.
Excludes data for California, which did not report weight gain on the birth certificate.
Excludes data for California, which did not report weight gain on the birth certificate.
Birthweight of less than 1,500 grams (3 lb 4 oz).
Birthweight of less than 2,500 grams (5 lb 8 oz).
Equivalent to 8 lb 14 oz.
Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

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

Table 26. Live births to mothers with selected medical risk factors and rates by age of mother, by race of mother: United States, 2001

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

	A.U.	Medical			A	Age of mothe	er			
Medical risk factor and race of mother	All births ¹	risk factor reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	 Not stated ²
All races ³										
Anemia	4,025,933	99,558	25.0	36.0	30.2	22.9	19.6	19.0	19.8	37,388
Cardiac disease	4,025,933	20,698	5.2	2.7	3.6	4.9	6.6	8.2	9.5	37,388
Acute or chronic lung disease	4,025,933	48,246	12.1	14.7	13.2	11.5	10.7	11.3	11.9	37,388
Diabetes	4,025,933	124,242	31.1	9.2	17.8	30.3	41.3	55.6	71.7	37,388
Genital herpes ⁴	3,660,523	33,560	9.3	6.2	8.1	8.8	10.6	12.4	12.3	35,734
Hydramnios/Oligohydramnios	4,025,933	54,694	13.7	14.9	13.9	13.2	13.2	14.1	16.1	37,388
Hemoglobinopathy	4,025,933	3,141	0.8	1.0	0.9 4.7	0.7 7.3	0.7 10.0	0.7	0.8	37,388
Hypertension, chronic	4,025,933 4,025,933	32,232 150,329	8.1 37.7	2.9 42.3	4.7 37.2	37.3	35.4	15.1 37.6	25.0 47.7	37,388 37,388
Hypertension, pregnancy-associated	4,025,933	12,627	37.7	42.3	37.2	2.9	2.7	37.0	47.7	37,388
Eclampsia Incompetent cervix	4,025,933	11,251	2.8	4.3	2.1	2.9	3.5	4.3	4.2	37,388
Previous infant 4000+ grams	4,025,933	41,313	10.4	1.3	5.8	10.8	14.7	17.5	20.2	37,388
Previous preterm or small-for-	+,020,000	+1,010	10.7	1.0	0.0	10.0	17.7	17.0	20.2	07,000
gestational-age infant	4.025.933	48,318	12.1	4.6	11.7	13.1	13.0	15.3	16.2	37.388
Renal disease	4,025,933	12,045	3.0	3.0	3.4	3.1	2.8	2.5	2.3	37,388
Rh sensitization ⁵	3,987,064	26,933	6.8	5.7	6.4	6.9	7.5	7.4	7.3	39,545
Uterine bleeding ⁴	3,660,523	21,324	5.9	4.1	5.2	5.9	6.7	7.0	8.3	35,734
White										
Anemia	3,177,626	69,462	22.1	32.0	26.5	20.4	18.0	17.3	18.1	29,977
Cardiac disease	3,177,626	17,330	5.5	2.7	3.7	5.1	7.0	8.7	10.0	29.977
Acute or chronic lung disease	3,177,626	36,476	11.6	13.3	12.3	11.2	10.7	11.2	11.9	29,977
Diabetes	3,177,626	94,541	30.0	9.4	17.6	28.8	38.6	51.4	67.2	29,977
Genital herpes ⁴	2,865,647	26,236	9.2	5.6	7.3	8.5	11.0	13.3	13.6	28,520
Hydramnios/Oligohydramnios	3,177,626	41,625	13.2	14.5	13.5	12.7	12.6	13.6	15.2	29,977
Hemoglobinopathy	3,177,626	1,122	0.4	0.3	0.3	0.3	0.4	0.5	0.4	29,977
Hypertension, chronic	3,177,626	22,078	7.0	2.5	4.1	6.5	8.5	12.4	19.6	29,977
Hypertension, pregnancy-associated	3,177,626	119,710	38.0	41.4	38.0	38.3	35.8	37.2	47.2	29,977
Eclampsia	3,177,626	9,250	2.9	3.8	2.9	2.8	2.6	3.0	4.0	29,977
Incompetent cervix	3,177,626	7,718	2.5	1.2	1.7	2.2	3.1	3.9	4.2	29,977
Previous infant 4000+ grams	3,177,626	36,813	11.7	1.4	6.5	12.0	16.1	19.3	22.6	29,977
Previous preterm or small-for-	0 177 000	07.000	11.0	1.0	11.0	10.0	10.0	45.4	10.0	00.077
gestational-age infant	3,177,626 3.177,626	37,228	11.8 3.3	4.2 3.4	11.2 3.8	12.6 3.4	12.8 3.0	15.1 2.7	16.0 2.5	29,977 29,977
Renal disease Rh sensitization ⁵	3,177,626	10,328 24,456	3.3 7.9	3.4 6.7	3.8 7.3	3.4 7.9	3.0 8.5	2.7 8.4	2.5 8.6	29,977 31,842
Uterine bleeding ⁴	2,865,647	17,834	6.3	4.6	5.7	6.2	6.9	7.2	8.5	28,520
Black	,,-	,								-,
Anomia	000 150	00.047	39.8	447	40.0	37.8	33.7	01.0	20.0	4.214
Anemia	606,156 606,156	23,947 2,472	39.8 4.1	44.7 2.7	43.6 3.5	37.8	33.7 5.2	31.8 6.2	32.2 8.8	4,214 4,214
Cardiac disease Acute or chronic lung disease	606,156	2,472	4.1	2.7	3.5 17.1	4.4 15.5	5.2 14.2	0.2 14.1	14.2	4,214
Diabetes	606,156	9,844 17,232	28.6	7.8	16.9	31.7	48.3	66.1	14.2 82.2	4,214
Genital herpes ⁴	565,406	6,243	20.0	7.8 8.0	11.3	13.0	40.3	10.4	8.6	4,214
Hydramnios/Oligohydramnios	606,156	9,653	16.0	16.1	15.0	15.4	17.2	17.8	22.4	4,073
Hemoglobinopathy	606,156	1,864	3.1	3.0	3.1	3.2	3.0	3.0	3.6	4,214
Hypertension, chronic	606,156	8,810	14.6	4.1	7.4	14.1	25.0	38.4	64.5	4,214
Hypertension, pregnancy-associated	606,156	24,433	40.6	45.4	35.6	38.5	42.4	48.1	56.5	4,214
Eclampsia	606,156	2,813	4.7	5.8	4.3	4.1	4.5	4.9	6.6	4,214
Incompetent cervix	606,156	3,036	5.0	1.9	3.6	6.3	7.9	8.6	8.0	4,214
Previous infant 4000+ grams Previous preterm or small-for-	606,156	2,765	4.6	0.8	3.0	5.9	7.9	8.7	8.8	4,214
gestational-age infant	606,156	8,741	14.5	5.4	14.1	18.4	17.9	19.3	17.5	4,214
Renal disease	606,156	1,223	2.0	2.0	2.1	2.1	1.9	1.7	*	4,214
Rh sensitization ⁵ Uterine bleeding ⁴	603,375	1,966	3.3	3.3	3.3	3.4	3.1	3.7	2.6	4,463
Literine blooding 4	565,406	2,299	4.1	3.1	3.6	4.4	5.3	4.8	6.4	4,073

Total number of births to residents of areas reporting specified medical risk factor.
 No response reported for the medical risk factor item.
 Includes races other than white and black.
 Texas does not report this risk factor.
 Kansas does not report this risk factor.

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

Table 27. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by detailed race of mother: United States, 2001

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

Medical risk factor,				American			Asian or Pac	ific Islander		
complication, and obstetric procedure	All races	White	Black	Indian ¹	Total	Chinese	Japanese	Hawaiian	Filipino	Other
					Num	ıber				
Medical risk factors										
Anemia Diabetes	99,558 124,242	69,462 94,541	23,947 17,232	2,282 2,235	3,867 10,234	348 1,635	147 340	295 321	533 1,750	2,54 6,18
Hypertension, pregnancy-associated	150,329	119,710	24,433	1,963	4,223	412	199	290	1,028	2,29
Uterine bleeding ²	21,324	17,834	2,299	252	939	120	61	41	159	55
Complications of labor and/or delivery										
Meconium,moderate/heavy	206,123	151,345	41,937	2,115	10,726	1,616	432	421	1,885	6,372
Premature rupture of membrane	95,129	72,234	16,773	1,337	4,785	656	269	189	850	2,82
Dysfunctional labor Breech/Malpresentation	112,268 153,141	88,782 125,809	15,283 18,533	1,551 1,656	6,652 7,143	1,394 1,149	323 369	252 289	1,017 1.148	3,660 4,188
Cephalopelvic disproportion	66,060	53,436	7,653	659	4,312	725	159	209	769	2,560
Fetal distress ³	140,617	104,731	27,180	1,431	7,275	978	374	288	1,083	4,552
Obstetric procedures										
Amniocentesis	87,927	71,930	8,701	538	6,758	1,824	765	232	1,040	2,897
Electronic fetal monitoring	3,397,544	2,685,098	517,061	34,488	160,897	25,092	6,892	4,733	25,478	98,70
Induction of labor	819,924	680,846	102,847	8,400	27,831	3,912	1,363	1,000	3,918	17,63
Ultrasound Stimulation of labor	2,696,063 702,660	2,162,694 561,467	372,493 97,216	25,965 6,772	134,911 37,205	22,313 6,159	6,527 1,772	4,238 1,054	21,689 5,362	80,144 22,858
					Ra	te				
Medical risk factors										
Anemia	25.0	22.1	39.8	55.4	19.6	11.2	16.4	46.6	16.6	21.3
Diabetes	31.1	30.0	28.6	54.3	51.7	52.5	37.9	50.7	54.5	51.9
Hypertension, pregnancy-associated	37.7	38.0	40.6	47.7	21.4	13.2	22.2	45.8	32.0	19.2
Uterine bleeding ²	5.9	6.3	4.1	6.2	5.0	4.0	7.0	6.6	5.1	5.1
Complications of labor and/or delivery										
Meconium,moderate/heavy	51.5	47.9	69.5	51.3	54.0	51.7	48.1	66.2	58.5	53.3
Premature rupture of membrane	23.8	22.9	27.8	32.4	24.1	21.0	29.9	29.7	26.4	23.6
Dysfunctional labor	28.1	28.1	25.3	37.6	33.5	44.6	36.0	39.6	31.6	30.6
Breech/Malpresentation	38.3	39.8	30.7	40.2	36.0	36.7	41.1	45.5	35.6	35.0
Cephalopelvic disproportion Fetal distress ³	16.5 38.7	16.9 36.8	12.7 48.3	16.0 35.5	21.7 39.0	23.2 32.7	17.7 42.9	15.6 45.9	23.9 34.9	21.4 41.1
Obstetric procedures										
Amniocentesis	21.9	22.7	14.4	13.0	34.0	58.2	84.9	36.4	32.2	24.2
Electronic fetal monitoring	847.9	849.0	855.6	834.9	808.9	800.9	764.8	743.2	789.6	823.0
Induction of labor	204.6	215.3	170.2	203.3	139.9	124.9	151.3	157.0	121.4	147.1
Ultrasound	672.8	683.8	616.4	628.5	678.3	712.2	724.3	665.5	672.2	668.3
Stimulation of labor	175.4	177.5	160.9	163.9	187.1	196.6	196.6	165.5	166.2	190.6

1

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

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

Table 28. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 2001

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

						Origin of mo	ther			
Medical risk factor, complication,	AU · · 1			His	panic			N	on-Hispanic	
and obstetric procedure	All origins ¹	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
					I	Number				
Medical risk factors										
Anemia	99,558	22,163	15,084	2,234	317	2,337	2,191	76,598	47,388	23,362
Diabetes	124,242	25,711	17,953	2,234	301	3,623	1,681	97,839	69,014	16,72
hypertension, pregnancy-associated	150,329	22,154	14,974	1,803	370	3,327	1,680	127,277	97,457	23,93
Iterine bleeding ³	21,324	2,680	1,610	405	34	391	240	18,447	15,096	2,22
Complications of labor and/or delivery										
leconium,moderate/heavy	206,123	48,696	34,687	3,089	508	7,746	2,666	156,225	103,026	40.88
Premature rupture of membrane	95,129	15,550	10,380	1,490	201	2,424	1,055	78,340	56,057	16,37
Dysfunctional labor		20,345	12,622	1,913	525	3,473	1,812	91,251	68,529	14,76
Breech/Malpresentation		25,082	16,942	2,070	422	3,947	1,701	127,034	100,577	18,00
Cephalopelvic disproportion Fetal distress ⁴	66,060 140,617	10,682 19,968	7,673 12,338	771 2,257	181 347	1,506 3,593	551 1,433	55,012 119,830	42,716 84,850	7,46 26,57
	140,617	19,968	12,338	2,257	347	3,593	1,433	119,830	84,850	20,57
Obstetric procedures										
Amniocentesis	87,927	8,802	4,373	1,069	321	2,204	835	78,383	62,859	8,40
Electronic fetal monitoring	3,397,544	692,362	491,422	49,647	11,989	99,042	40,262	2,686,869	1,994,791	503,51
nduction of labor	819,924	114,801	77,889	9,582	2,542	16,040	8,748	700,459	565,014	100,53
JItrasound Stimulation of labor	2,696,063 702,660	502,183 135,006	347,031 93,064	39,432 11,868	8,233 1,989	75,568 20,539	31,919 7,546	2,178,698 563,876	1,661,703 426,905	361,80 94,29
	702,000	135,000	33,004	11,000	1,303	20,555	7,540	505,070	420,303	54,23
						Rate				
Medical risk factors										
Anemia	25.0	26.2	24.9	39.1	22.7	19.5	46.2	24.6	20.6	39.9
Diabetes	31.1	30.4	29.6	37.7	21.5	30.2	35.4	31.4	30.0	28.5
Appertension, pregnancy-associated	37.7	26.2	24.7	31.6	26.5	27.7	35.4	40.8	42.3	40.9
Jterine bleeding ³	5.9	4.0	3.5	7.2	2.5	3.5	6.2	6.3	7.0	4.1
Complications of labor and/or delivery										
leconium,moderate/heavy	51.5	57.3	56.9	54.0	36.3	64.1	56.0	49.9	44.6	69.6
Premature rupture of membrane	23.8	18.3	17.0	26.0	14.4	20.1	22.2	25.0	24.3	27.9
Dysfunctional labor	28.1	24.0	20.7	33.4	37.5	28.7	38.0	29.2	29.7	25.1
Breech/Malpresentation	38.3 16.5	29.5 12.6	27.8 12.6	36.2 13.5	30.2 12.9	32.7 12.5	35.7 11.6	40.6 17.6	43.5 18.5	30.7 12.7
retal distress ⁴	38.7	29.5	27.1	40.2	25.3	32.2	37.1	40.8	39.1	48.6
Obstetric procedures										
mniocentesis	21.9	10.4	7.2	18.7	22.9	18.2	17.5	25.0	27.2	14.3
Electronic fetal monitoring		814.8	805.8	866.9	855.9	818.7	844.1	857.5	862.0	856.1
nduction of labor	204.6	135.1	127.7	167.3	181.5	132.6	183.4	223.5	244.2	170.9
Jitrasound	672.8 175.4	591.0 158.9	569.1 152.6	688.6 207.2	587.8 142.0	624.7 169.8	669.2 158.2	695.3 180.0	718.1 184.5	615.1 160.3
Stimulation of labor	175.4	100.9	0.201	201.2	142.0	109.0	100.2	100.0	104.0	100.3

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

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

Table 29. Number of live births by smoking status of mother, percent smokers, and percent distribution by average number of cigarettes smoked by mothers per day, according to age and race of mother: Total of 49 reporting States and the District of Columbia, 2001

					Age of m	other				
Smoking status, smoking			1	5-19 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	40-54 years
					Num	ber				
All races ¹										
Total	3,498,174	6,972	392,937	128,010	264,927	898,300	921,714	814,648	382,826	80,777
Smoker Nonsmoker Not stated	416,476 3,056,512 25,186	417 6,505 50	68,343 321,958 2,636	18,295 108,795 920	50,048 213,163 1,716	151,828 740,641 5,831	94,571 820,775 6,368	61,293 747,090 6,265	32,565 347,023 3,238	7,459 72,520 798
White										
Total	2,749,388	3,441	273,364	84,382	188,982	674,889	740,024	677,274	314,932	65,464
Smoker Nonsmoker Not stated	353,635 2,375,662 20,091	315 3,091 35	58,577 212,931 1,856	15,530 68,231 621	43,047 144,700 1,235	129,233 541,233 4,423	80,678 654,217 5,129	52,161 619,868 5,245	26,765 285,450 2,717	5,906 58,872 686
Black										
Total	572,382	3,329	105,943	39,244	66,699	189,244	129,541	88,306	45,429	10,590
Smoker Nonsmoker Not stated	51,395 517,606 3,381	85 3,232 12	7,549 97,821 573	2,099 36,919 226	5,450 60,902 347	18,562 169,633 1,049	11,284 117,494 763	7,574 80,148 584	4,977 40,128 324	1,364 9,150 76
					Percent s	mokers				
Total ¹	12.0	6.0	17.5	14.4	19.0	17.0	10.3	7.6	8.6	9.3
White Black	13.0 9.0	9.2 2.6	21.6 7.2	18.5 5.4	22.9 8.2	19.3 9.9	11.0 8.8	7.8 8.6	8.6 11.0	9.1 13.0
					Percent dis	tribution ²				
All races ¹										
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1-5 cigarettes 6-10 cigarettes 11-15 cigarettes 12-20 cigarettes 21-30 cigarettes 31-40 cigarettes 31-40 cigarettes 41 cigarettes or more	31.3 41.5 5.8 18.5 2.1 0.7 0.1	56.5 32.6 * 8.6 *	39.4 41.7 4.2 13.1 1.2 0.3 0.1	43.8 40.5 3.7 10.6 1.0 0.3	37.9 42.1 4.4 13.9 1.2 0.4 0.1	32.3 42.8 5.1 17.4 1.7 0.6 0.1	28.3 41.7 6.4 20.4 2.4 0.8 0.1	27.3 40.2 7.2 21.6 2.7 1.0 0.2	26.7 38.5 7.4 22.7 3.3 1.3 0.2	26.2 36.2 7.4 24.5 3.8 1.5
White										
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1-5 cigarettes 6-10 cigarettes 11-15 cigarettes 12-20 cigarettes 21-30 cigarettes 31-40 cigarettes 41 cigarettes or more	28.0 42.5 6.3 20.0 2.3 0.8 0.1	51.5 36.5 * 9.5 *	35.9 43.6 14.2 1.3 0.4 0.1	40.0 42.9 4.0 11.6 1.1 0.3 *	34.4 43.9 4.8 15.2 1.3 0.4 0.1	28.6 44.3 5.6 19.0 1.9 0.6 0.1	25.2 42.3 6.9 22.0 2.6 0.8 0.1	24.6 40.3 7.8 23.2 3.0 1.0 0.2	23.7 38.3 8.1 24.5 3.7 1.4 0.2	22.9 35.8 8.1 26.8 4.3 1.8
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 12-20 cigarettes 21-30 cigarettes 21-40 cigarettes 31-40 cigarettes or more	50.6 35.6 2.7 9.8 0.9 0.4 0.1	73.6 * * * *	63.3 28.4 1.8 5.5 0.7 *	68.1 24.9 1.7 4.8 *	61.5 29.8 1.8 5.8 0.8 *	54.5 34.2 2.1 8.2 0.6 0.4	46.9 37.9 2.9 10.6 1.1 0.4	42.9 39.5 3.4 12.5 1.0 0.5	40.0 39.6 3.8 14.4 1.2 0.8	39.5 37.7 4.5 15.7 2.0

 * Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
 1 Includes races other than white and black.
 2 Excludes data for Indiana, New York State (but includes New York City), and South Dakota, which did not report average number of cigarettes smoked per day in standard categories.

NOTE: Excludes data for California, which did not require reporting of tobacco use during pregnancy. Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 30. Number of live births by smoking status of mother and percent of mothers who smoked cigarettes during pregnancy, by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: Total of 49 reporting States, and the District of Columbia, 2001

		Smoking	l 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	40-54 years
								Р	ercent sr	nokers				
All origins ¹	3,498,174	416,476	3,056,512	25,186	12.0	6.0	17.5	14.4	19.0	17.0	10.3	7.6	8.6	9.3
Hispanic	590,780	18,900	568,225	3,655	3.2	2.0	4.0	3.5	4.2	3.8	2.6	2.5	3.0	3.6
Mexican Puerto Rican Cuban Central and South American	382,352 55,517 13,248 96,231	8,975 5,382 391 1,240	370,663 49,901 12,833 94,603	2,714 234 24 388	2.4 9.7 3.0 1.3	1.6 * *	2.9 9.7 6.3 1.8	2.6 7.9 8.7 1.7	3.0 10.8 5.0 1.9	2.7 11.5 3.1 1.5	1.9 9.0 2.4 1.0	1.8 8.0 2.2 1.0	2.5 8.7 3.6 1.4	3.1 9.7 * 1.8
Other and unknown Hispanic	43,432	2,912	40,225	295	6.8	*	7.6	6.6	8.3	8.0	6.2	5.5	5.1	6.4
Non-Hispanic ²	2,886,251	394,660	2,471,513	20,078	13.8	7.6	21.8	18.4	23.3	20.4	11.9	8.3	9.3	10.1
White Black	2,159,553 557,366	333,368 50,602	1,810,861 503,573	15,324 3,191	15.5 9.1	18.5 2.5	30.5 7.2	28.6 5.4	31.2 8.2	24.9 9.9	13.2 8.9	8.7 8.8	9.5 11.2	10.0 13.2

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

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

Table 31. Number of live births, percent of mothers who smoked cigarettes during pregnancy, and percent distribution of average number of cigarettes smoked by mothers per day, according to educational attainment and race and Hispanic origin of mother: Total of 49 reporting States, and the District of Columbia, 2001

Smolking massive and	_		Ye	ars of school com	pleted by mother		
Smoking measure, and race and Hispanic origin of mother	Total	0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not Stated
				All births			
All races ¹	3,498,174	177,652	529,715	1,104,535	755,441	883,453	47,378
White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ²	2,749,388 2,159,553 572,382 557,366 590,780	156,721 36,744 14,251 13,248 121,078	380,470 226,984 128,480 125,237 155,638	831,330 659,717 224,048 218,440 174,010	593,031 516,605 128,090 125,113 76,826	754,399 702,521 67,610 66,058 49,485	33,437 16,982 9,903 9,270 13,743
			Р	ercent smokers			
Total	12.0	8.9	24.8	16.4	9.2	1.9	11.0
White, total White, non-Hispanic Black, total Black, non-Hispanic Hispanic ²	13.0 15.5 9.0 9.1 3.2	8.8 31.9 10.4 10.8 1.7	27.9 43.2 16.9 17.1 5.0	18.8 22.7 8.8 8.9 3.4	10.3 11.3 5.2 5.2 2.9	2.0 2.1 1.5 1.5 1.0	11.5 17.7 11.7 11.6 3.3
-			Per	rcent distribution ³			
All races ¹							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less 11-20 cigarettes 21 cigarettes or more	72.8 24.3 2.9	68.0 27.2 4.8	72.7 24.1 3.2	72.3 24.9 2.8	74.1 23.5 2.4	77.9 20.2 1.9	74.2 22.6 3.2
White, total							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less 11-20 cigarettes 21 cigarettes or more	70.5 26.3 3.1	65.9 28.9 5.2	69.6 26.8 3.5	70.1 26.8 3.0	72.5 24.9 2.6	77.0 21.1 1.9	72.2 24.1 3.6
White, non-Hispanic							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less 11-20 cigarettes 21 cigarettes or more	69.7 27.1 3.2	62.7 31.7 5.6	68.4 28.0 3.7	69.6 27.3 3.1	72.0 25.3 2.7	76.8 21.3 2.0	69.6 26.5 4.0
Black, total							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less 11-20 cigarettes 21 cigarettes or more	86.2 12.4 1.4	83.7 13.9 2.4	86.0 12.4 1.6	86.7 12.1 1.3	86.4 12.6 1.0	87.6 11.5 *	79.2 18.3 2.5
Black, non-Hispanic							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less 11-20 cigarettes 21 cigarettes or more	86.2 12.4 1.4	83.7 13.9 2.4	86.0 12.4 1.6	86.7 12.1 1.3	86.4 12.6 1.0	87.9 11.3 *	79.6 17.8 2.5
Hispanic ²							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less 11-20 cigarettes 21 cigarettes or more	85.6 13.0 1.4	84.3 13.5 2.2	86.5 12.0 1.5	85.2 13.6 1.2	84.8 14.1 1.1	83.7 15.3	87.2 11.6 *

Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
 Includes races other than white and black and origin not stated.
 Includes all persons of Hispanic origin of any race.
 Excludes data for Indiana, New York State (but includes New York City), and South Dakota, which did not report average number of cigarettes smoked per day in standard categories.

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

Table 32. Percent low birthweight by smoking status, age, and race and Hispanic origin of mother: Total of 49 reporting States, and the District of Columbia, 2001

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

						Age of mothe	r			
Smoking status and				15-19 years						
race of mother	All ages	Under 15 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years
All races ¹										
Total	7.9	13.3	9.8	10.6	9.4	8.0	7.0	7.2	8.6	10.8
Smoker	11.9	14.0	11.3	11.8	11.1	10.6	11.3	13.2	16.7	19.7
lonsmoker	7.3	13.2	9.4	10.3	8.9	7.4	6.5	6.7	7.8	9.9
lot stated		*	14.1	14.5	13.9	9.4	9.2	9.2	11.4	12.2
White, total										
Fotal	6.8	10.8	8.3	9.1	7.9	6.8	6.1	6.4	7.7	9.8
Smoker	10.8	11.8	10.7	11.3	10.4	9.8	10.3	11.7	14.6	16.7
lonsmoker		10.7	7.6	8.5	7.2	6.0	5.6	5.9	7.0	9.1
lot stated	8.8	*	12.1	13.4	11.5	7.8	8.0	7.9	10.2	11.6
White, non-Hispanic										
otal	6.8	11.6	8.5	9.3	8.1	6.9	6.1	6.4	7.6	9.7
Smoker		12.3	10.6	11.2	10.3	9.8	10.2	11.5	14.5	16.2
lonsmoker		11.5	7.5	8.5	7.1	5.9	5.5	5.9	6.8	8.9
lot stated	8.7	*	11.4	11.8	11.3	8.1	8.0	7.9	10.4	10.8
Black, total										
Fotal	13.0	16.0	13.7	14.0	13.5	12.5	12.0	13.0	15.4	17.4
moker		*	16.6	16.6	16.5	16.7	19.0	24.3	28.4	32.6
lonsmoker		15.9	13.4	13.8	13.2	12.0	11.3	11.9	13.7	15.1
lot stated	18.2	*	21.4	19.6	22.5	15.3	17.8	20.6	19.8	*
Black, non-Hispanic										
otal	13.1	16.0	13.7	14.1	13.6	12.6	12.1	13.2	15.6	17.6
Smoker		*	16.6	16.8	16.6	16.7	19.0	24.3	28.7	32.8
lonsmoker		15.9	13.5	13.9	13.2	12.1	11.4	12.1	13.9	15.4
lot stated	17.9	*	21.5	19.6	22.8	14.9	16.8	20.9	19.8	*
Hispanic ²										
otal	6.8	10.2	8.0	8.7	7.6	6.5	6.0	6.6	8.3	10.5
moker		*	11.9	11.4	12.1	10.5	10.7	14.4	15.6	22.4
lonsmoker		10.1	7.8	8.6	7.4	6.3	5.8	6.4	8.1	10.0
lot stated	8.8	*	13.5	15.7	12.0	7.5	7.2	7.6	9.1	*

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

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

Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 2001

					Month of	pregnancy p	orenatal care b	egan			
Age and race and Hispanic origin	All births		1st trimester		2d trimester	La	ate or no care		Not	Perce	ent
of mother		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	4,025,933	3,276,902	2,534,944	741,958	506,668	147,390	105,662	41,728	94,973	83.4	3.7
Under 15 years	7,781	3,543	2,189	1,354	2,651	1,247	904	343	340	47.6	16.8
15-19 years	445,944	300,892	205,917	94,975	102,285	30,069	21,797	8,272	12,698	69.5	6.9
15 years	20,150	11,074	6,992	4,082	6,236	2,111	1,534	577	729	57.0	10.9
16 years	45,367	27,566	18,038	9,528	12,483	3,838	2,812	1,026	1,480	62.8	8.7
17 years	79,807	52,061	34,790	17,271	19,529	5,910	4,246	1,664	2,307	67.2	7.6
18 years	126,361 174,259	86,451 123,740	59,486 86,611	26,965 37,129	28,444 35,593	7,931 10,279	5,686 7,519	2,245 2,760	3,535 4,647	70.4 73.0	6.5 6.1
19 years 20-24 years	1,021,627	778,394	574,767	203,627	168,349	48,566	35,216	13,350	26,318	78.2	4.9
25-29 years	1,058,265	891,451	702,633	188,818	111,616	31,792	22,993	8,799	23,406	86.1	3.1
30-34 years	942,697	827,871	669,956	157,915	73,992	21,195	14,965	6,230	19,639	89.7	2.3
35-39 years	451,723	392,799	315,096	77,703	37,653	11,284	7,627	3,657	9,987	88.9	2.6
40 years and over	97,896	81,952	64,386	17,566	10,122	3,237	2,160	1,077	2,585	86.0	3.4
White, total	3,177,626	2,648,763	2,064,013	584,750	361,527	99,225	72,661	26,564	68,111	85.2	3.2
Under 15 years	4,095	2,069	1,289	780	1,270	594	417	177	162	52.6	15.1
15-19 years	318,563	222,483	153,040	69,443	68,177	19,431	14,369	5,062	8,472	71.7	6.3
15 years	12,584	7,363	4,701	2,662	3,585	1,209	889	320	427	60.6	9.9
16 years	30,510	19,470	12,894	6,576	7,767	2,359	1,742	617	914	65.8	8.0
17 years	56,098	38,000	25,571	12,429	12,706	3,861	2,837	1,024	1,531	69.6	7.1
18 years	91,284	64,425 93,225	44,478	19,947	19,302	5,190	3,809	1,381	2,367	72.5	5.8 5.5
19 years 20-24 years	128,087 779,529	93,225 608,175	65,396 450,925	27,829 157,250	24,817 119,775	6,812 32,890	5,092 24,359	1,720 8,531	3,233 18,689	74.7 79.9	4.3
25-29 years	850,343	728,874	577,540	151,334	82,298	22,151	16,328	5,823	17,020	87.5	2.7
30-34 years	777,294	693,396	564,369	129,027	54,921	14,452	10,384	4,068	14,525	90.9	1.9
35-39 years	368,816	326,299	263,455	62,844	27,683	7,499	5,289	2,210	7,335	90.3	2.1
40 years and over	78,986	67,467	53,395	14,072	7,403	2,208	1,515	693	1,908	87.5	2.9
White, non-Hispanic	2,326,578	2,022,737	1,605,473	417,264	210,946	51,230	37,808	13,422	41,665	88.5	2.2
Under 15 years	1,581	804	500	304	500	222	148	74	55	52.7	14.5
15-19 years	190,161	140,213	97,220	42,993	36,857	8,907	6,767	2,140	4,184	75.4	4.8
15 years	5,765	3,552	2,295	1,257	1,581	466	366	100	166	63.4	8.3
16 years	15,538 31,409	10,461 22,464	6,933 15,161	3,528 7,303	3,721 6,533	981 1,685	757 1,252	224 433	375 727	69.0 73.2	6.5 5.5
17 years 18 years	55,409	41,276	28,764	12,512	10,528	2,450	1,840	610	1,155	76.1	4.5
19 years	82,040	62,460	44,067	18,393	14,494	3,325	2,552	773	1,761	77.8	4.1
20-24 years	523,027	426,610	320,657	105,953	69,351	16,628	12,519	4,109	10,438	83.2	3.2
25-29 years	622,361	554,911	448,049	106,862	46,082	11,107	8,231	2,876	10,261	90.7	1.8
30-34 years	625,435	572,676	472,522	100,154	34,483	8,205	5,882	2,323	10,071	93.1	1.3
35-39 years	300,007	271,536	221,737	49,799	18,545	4,677	3,260	1,417	5,249	92.1	1.6
40 years and over	64,006	55,987	44,788	11,199	5,128	1,484	1,001	483	1,407	89.4	2.4
Black, total	606,156	436,504	325,221	111,283	111,414	38,243	24,927	13,316	19,995	74.5	6.5
Under 15 years	3,455 110,843	1,378 68,742	849 46,714	529 22,028	1,300 29,275	610 9,148	448 6,257	162 2,891	167 3,678	41.9 64.1	18.6 8.5
15-19 years 15 years	6,881	3,408	2,109	1,299	29,275	9,148 798	559	2,891	287	51.7	12.1
16 years	13,183	7,226	4,637	2,589	4,172	1,288	922	366	497	57.0	10.2
17 years	20,778	12,466	8,225	4,241	5,860	1,769	1,185	584	683	62.0	8.8
18 years	30,516	19,303	13,277	6,026	7,856	2,341	1,578	763	1,016	65.4	7.9
19 years	39,485	26,339	18,466	7,873	8,999	2,952	2,013	939	1,195	68.8	7.7
20-24 years	199,221	140,158	102,679	37,479	39,839	12,943	8,686	4,257	6,281	72.6	6.7
25-29 years	137,400	105,444	81,255	24,189	20,485	7,112	4,559	2,553	4,359	79.3	5.3
30-34 years	94,660	74,516	58,311	16,205	12,092	4,803	2,970	1,833	3,249	81.5	5.3
35-39 years 40 years and over	49,065 11,512	37,824 8,442	29,119 6,294	8,705 2,148	6,604 1,819	2,839 788	1,558 449	1,281 339	1,798 463	80.0 76.4	6.0 7.1
To years and over	11,012	0,442	0,234	∠,140	1,019	100	443	559	403	70.4	1.1

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, 2001 Con.

		Month of pregnancy prenatal care began											
Age and race and Hispanic origin	All births		1st trimester		2d trimester	La	ate or no care		Not	Perc	ent		
of mother		Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	stated	1st trimester	Late or no care		
Black, non-Hispanic	589,917	425,083	316,867	108,216	108,638	37,199	24,120	13,079	18,997	74.5	6.5		
Under 15 years 15-19 years 16 years 17 years 18 years 19 years 20-24 years 20-24 years 30-34 years 30-34 years 40 years and over Hispanic ²	3,401 108,252 6,735 12,879 20,293 29,794 38,551 194,391 91,710 47,494 11,178 851,851	1,355 67,179 3,332 7,056 12,187 18,861 25,743 136,879 102,555 72,244 36,654 8,217 625,816	841 45,651 2,068 4,523 8,040 12,974 18,046 100,328 79,081 56,593 28,247 6,126 457,753	514 21,528 1,264 2,533 4,147 5,887 7,697 36,551 23,474 15,651 8,407 2,091 168,063	1,282 28,636 2,341 4,095 5,717 7,686 8,797 38,909 19,926 11,727 6,397 1,761	601 8,914 781 1,254 2,282 2,865 12,608 6,892 4,663 2,755 766 48,502	441 6,093 548 899 1,161 1,537 1,948 8,425 4,383 2,852 1,493 433 35,400	160 2,821 233 355 571 745 917 4,183 2,509 1,811 1,262 333 13,102	163 3,523 281 474 657 965 1,146 5,995 4,118 3,076 1,688 434 25,363	41.8 64.1 51.6 56.9 62.1 65.4 68.8 72.7 79.3 81.5 80.0 76.5 75.7	18.6 8.5 12.1 10.1 8.8 7.9 7.7 6.7 5.3 5.3 6.0 7.1 5.9		
Under 15 years 15-19 years 15 years 17 years 18 years 19 years 20-24 years 20-24 years 30-34 years 35-39 years	2,555 130,007 6,936 15,165 25,023 36,298 46,585 258,431 227,910 150,352 67,952 14,644	1,277 83,273 3,865 9,131 15,732 23,420 31,125 182,794 173,824 119,389 54,037 11,222	789 56,531 2,437 6,037 10,553 15,918 21,586 131,116 129,246 90,659 41,029 8,383	488 26,742 1,428 3,094 5,179 7,502 9,539 51,678 44,578 28,730 13,008 2,839	789 31,792 2,050 4,115 6,282 8,886 10,459 51,080 36,490 20,539 9,202 2,278	380 10,706 762 1,399 2,204 3,537 16,460 11,120 6,276 2,846 714	275 7,736 541 999 1,600 2,014 2,582 12,040 8,193 4,579 2,060 517	105 2,970 221 400 604 790 955 4,420 2,927 1,697 786 197	109 4,236 259 520 805 1,188 1,464 8,097 6,476 4,148 1,867 430	52.2 66.2 57.9 62.3 65.0 66.7 69.0 73.0 78.5 81.7 81.8 79.0	15.5 8.5 11.4 9.6 9.1 8.0 7.8 6.6 5.0 4.3 4.3 4.3 5.0		

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

Table 34. Percent of mothers beginning prenatal care in the first trimester and percent of mothers with late or no prenatal care by race and Hispanic origin of mother: United States, each State and territory, 2001

[By place of residence]

		Fercent	eginning ca		Inestei				Percent late		10	
		Whi	ite	Bla	ick			Wh	nite	Bla	ack	
State	All races ²	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ³	All races ²	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ³
United States ⁴	83.4	85.2	88.5	74.5	74.5	75.7	3.7	3.2	2.2	6.5	6.5	5.9
Alabama	82.4	87.4	89.5	71.7	71.7	52.3	3.9	2.9	1.9	6.2	6.2	19.4
Alaska	80.5	84.2	84.3	82.3	83.2	82.2	4.5	3.3	3.3	*	*	3.8
Arizona	76.7 79.8	77.4 82.4	87.3 83.9	75.8 69.9	75.7 70.0	66.7 67.4	6.3 4.6	6.2 3.9	2.5 3.4	5.9 7.4	5.8 7.4	10.1 8.5
Arkansas California	85.4	85.4	90.0	82.5	82.5	82.4	2.9	3.9	2.0	3.6	3.6	3.6
Colorado	79.8	80.2	87.3	72.7	72.5	65.1	4.7	4.6	2.5	7.0	7.0	8.8
Connecticut	88.7	89.7	92.4	81.9	82.1	78.5	1.9	1.7	1.2	3.3	3.1	3.8
Delaware	87.2	88.9	91.5	81.5	81.6	73.0	3.3	2.7	2.2	5.3	5.3	5.7
District of Columbia	74.4	84.2	90.8	68.7	68.7	70.9	7.9	3.7	2.7	10.1	10.2	5.9
Florida Georgia	84.1 86.2	87.0 88.9	89.3 91.4	75.1 80.6	75.0 80.5	81.7 76.5	3.4 3.0	2.6 2.4	1.9 1.6	5.7 4.2	5.7 4.2	4.3 6.2
Hawaii	84.2	88.5	89.2	92.0	92.3	83.3	3.0	2.4	2.6	4.2	4.2	3.2
Idaho	81.8	82.0	84.0	81.0	80.6	69.5	3.7	3.7	3.1	*	*	7.1
Illinois	84.0	86.5	90.3	72.9	72.9	76.8	3.3	2.4	1.7	7.4	7.4	4.1
Indiana	80.6	82.1	83.7	68.9	68.8	63.2	3.7	3.3	2.9	7.3	7.2	7.9
lowa	88.4	88.9	89.8	79.0	79.1	74.7	2.3	2.1	2.0	5.8	5.7	4.7
Kansas	86.9	87.6	90.2	79.5	79.6	71.0	2.7	2.5	1.7	5.2	5.2	7.2
Kentucky	86.7	87.5	88.1	79.3	79.3	67.4	2.7	2.5	2.2	4.8	4.8	9.4
Louisiana Maine	83.2 88.2	90.4 88.3	90.6 88.4	73.4 79.7	73.4 81.0	84.0 77.5	3.6 2.0	1.7 2.0	1.7 1.9	6.2 *	6.2	3.0
Maryland	83.7	87.7	89.6	76.5	76.5	72.6	3.7	2.5	2.0	6.2	6.1	5.8
Massachusetts	89.7	91.3	92.6	79.5	78.5	81.6	2.1	1.7	1.4	5.3	5.6	3.9
Michigan	84.5	87.8	89.1	69.3	69.2	71.2	3.6	2.5	2.3	8.9	9.0	5.5
Minnesota	84.5	87.1	89.1	66.5	66.5	62.8	2.7	2.0	1.6	7.2	7.2	7.3
Mississippi	82.7	89.3	89.8	74.9	74.9	71.2	3.3	1.8	1.6	5.1	5.1	7.2
Missouri	87.7	89.2	89.8	78.7	78.7	78.0	2.6	2.1	2.0	5.7	5.7	4.8
Montana Nebraska	82.6 83.2	85.3 84.5	85.6 87.0	82.9 68.0	84.2 68.0	79.8 68.3	3.1 3.1	2.1 2.7	2.0 2.2	7.6	7.6	5.9 5.9
Nevada	75.7	76.3	85.9	67.6	67.6	62.8	7.4	7.3	3.6	10.2	10.1	12.4
New Hampshire	90.6	91.0	91.5	79.5	78.3	81.2	1.7	1.5	1.4	*	*	4.0
New Jersey	79.8	83.3	88.8	63.4	63.1	67.4	5.3	3.9	2.6	11.6	11.9	8.0
New Mexico	69.0	70.3	76.7	65.8	65.9	66.3	7.7	7.1	5.0	9.4	9.7	8.5
New York	80.5	83.9	87.8	70.3	70.2	73.2	5.2	4.0 2.4	2.9 1.5	9.0	9.0	7.1 6.7
North Carolina North Dakota	84.4 85.8	87.3 88.4	90.9 88.7	75.9 78.4	75.9 79.2	69.9 78.1	3.1 2.4	2.4	1.5	5.2	5.2	0.7
Ohio	87.3	89.1	89.5	77.2	77.2	77.3	3.4	2.6	2.4	8.0	8.0	6.3
Oklahoma	77.4	79.5	81.5	69.2	69.3	65.4	5.4	4.7	4.1	8.2	8.2	9.5
Oregon	81.5	81.8	84.6	76.6	77.0	69.9	3.7	3.6	2.9	3.8	3.9	6.2
Pennsylvania Rhode Island	85.2 91.4	87.4 92.4	88.4 93.7	72.9 84.5	73.0 84.9	73.2 87.5	3.3 1.1	2.6 0.9	2.3 0.8	7.3 2.8	7.3 2.7	5.6 1.4
South Carolina	79.2	84.3	86.1	69.5	69.5	63.9	4.4	3.2	2.7	6.8	6.8	9.1
South Dakota	79.2	84.3 82.2	82.5	69.5 59.0	69.5 59.4	66.5	4.4	3.2 2.6	2.7 2.5	0.8	0.8	9.1
Tennessee	82.8	85.7	87.6	72.2	72.2	57.1	4.1	3.0	2.3	7.9	7.9	14.7
Texas	80.3	80.5	88.0	77.0	76.9	74.2	4.9	4.9	2.5	5.7	5.7	6.9
Utah	79.3	80.3	83.5	61.7	61.6	60.8	4.7	4.3	3.4	15.0	15.2	9.6
Vermont	89.3	89.3	89.5	77.4	75.9	81.8	1.8	1.8	1.7	*	*	*
Virginia	85.1	87.8	90.5	76.5	76.5	69.8	3.6	2.8	2.0	5.8	5.7	7.9
Washington	83.2	83.8	86.2	77.0	76.9	73.1	3.0	2.8	2.2	4.7	4.6	5.3
West Virginia	86.3	86.8	86.9	76.2 69.6	76.6	63.4 69.8	2.2	2.1 2.7	2.1 2.4	4.1	4.0	
Wisconsin Wyoming	83.8 82.9	86.2 83.4	87.7 84.6	69.6 83.1	69.5 84.4	69.8 71.6	3.4 4.0	3.8	2.4 3.7	8.1	8.1	6.3 5.5
Puerto Rico	79.4	80.1		71.1			3.3	3.0		5.8		
Virgin Islands	65.6	65.1	81.0	65.3	66.4	59.5	8.6	8.7	*	8.9	8.1	10.6
Guam	64.0	88.8	89.4	86.5	86.5	72.0	12.2	*	*	*	*	*
American Samoa		*		*				*		*		
Northern Marianas	30.1	*		*			25.8	*		*		

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

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, 2001

	-			Month of	pregnancy pre	natal care be	yan		
Number of prenatal visits	All		1st trimester		2d trimester	La	ate or no care		NL-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
All races 1	4,025,933	3,276,902	2,534,944	741,958	506,668	147,390	105,662	41,728	94,973
No visits	41,728					41,728		41,728	
1-2 visits	41,755	10,928	7,248	3,680	9,764	19,121	19,121	-1,720	1,942
3-4 visits	86,035	25,606	15,090	10,516	30,653	27,216	27,216		2,560
5-6 visits	183,463	80,249	47,074	33,175	73,582	26,044	26,044		3,588
7-8 visits	342,823	213,002	132,086	80,916	109,984	15,206	15,206		4,631
9-10 visits	776,133	620,324	424,571	195.753	138,479	8,618	8,618		8,712
11-12 visits	1,044,952	957,024	744.129	212,895	78,747	3,518	3,518		5,663
13-14 visits	660,605	627,192	520,940	106,252	28,642	1,428	1,428		3,343
15-16 visits	473,523	451,622	393,547	58,075	18,652	1,420	1,146		2,103
					3,437	217	217		,
17-18 visits	104,020	99,838	85,564	14,274					528 899
19 visits or more	146,295	139,215	123,755	15,460	5,727	454	454		
Not stated	124,601	51,902	40,940	10,962	9,001	2,694	2,694		61,004
Median number of visits	12.3	12.6	12.8	11.5	9.5	5.4	5.4		10.3
White, total	3,177,626	2,648,763	2,064,013	584,750	361,527	99,225	72,661	26,564	68,111
No visits	26,564			-		26,564		26,564	
1-2 visits	26,940	7,398	4,990	2,408	5,870	12,569	12,569		1,103
3-4 visits	56,945	17,231	10,226	7,005	19,670	18,281	18,281		1,763
5-6 visits	128,656	57,560	33,685	23,875	50,516	18,116	18,116		2,464
7-8 visits	257,473	164,803	102,839	61,964	78,383	10,802	10,802		3,485
9-10 visits	603,605	491,348	338,275	153,073	100,340	6,068	6,068		5,849
11-12 visits	852,565	786,864	615,133	171,731	58,593	2,636	2,636		4,472
13-14 visits	545,362	520,022	433,464	86,558	21,661	1,065	1,065		2,614
15-16 visits	384,337	368,121	321,325	46,796	13,734	848	848		1,634
17-18 visits	85,531	82,342	71,100	11,242	2,586	176	176		427
19 visits or more	18,191	113,150	101,275	11,875	4,036	332	332		673
Not stated	91,457	39,924	31,701	8,223	6,138	1,768	1,768		43,627
Median number of visits	12.3	12.6	12.8	11.6	9.6	5.5	5.5		10.4
White, non-Hispanic	2,326,578	2,022,737	1,605,473	417,264	210,946	51,230	37,808	13,422	41,665
No visits	13,422					13,422		13,422	
1-2 visits	13,621	3,937	2,700	1,237	2,885	6,231	6,231		568
3-4 visits	30,489	10,202	6,295	3,907	10,287	8,976	8,976		1,024
5-6 visits	76,071	38,210	23,267	14,943	27,158	9,169	9,169		1,534
7-8 visits	169,987	117,474	75,664	41,810	44,537	5,738	5,738		2,238
9-10 visits	423,441	357,166	252,298	104,868	58,635	3,455	3,455		4,185
11-12 visits	663,143	620,242	491,932	128,310	37,915	1,635	1,635		3,35
13-14 visits	431,669	414,269	347,287	66,982	14,643	716	716		2,04
15-16 visits	290,194	280,689	247,227	33,462	7,699	570	570		1,236
17-18 visits	67,748	65,534	56,992	8,542	1,750	113	113		351
19 visits or more	93,670	90,299	81,521	8,778	2,615	236	236		520
Not stated	53,123	24,715	20,290	4,425	2,822	969	969		24,617
Median number of visits	12.5	12.7	12.8	11.9	9.9	5.7	5.7		10.7
Black, total	606,156	436,504	325,221	111,283	111,414	38,243	24,927	13,316	19,995
No visits	13,316					13,316		13,316	
1-2 visits	11,900	2,836	1,794	1,042	3,250	5,118	 5,118		696
3-4 visits	22,808	6,669	3,895	2,774	8,737	6,779	6,779		623
5-6 visits	41,484	17,052	10,177	6,875	17,620	5,945	5,945		867
	60,903	33,110	20,102	13,008	23,719	3,233	3,233		841
7-8 visits				29.980	23,719				
9-10 visits	123,264	89,979	59,999	- ,		1,920	1,920		2,336
11-12 visits	128,746	112,098	83,938	28,160	15,201	626	626		821
13-14 visits	78,888	72,845	59,157	13,688	5,288	262	262		493
15-16 visits	64,000	59,428	51,214	8,214	4,029	232	232		31
17-18 visits	13,499	12,722	10,361	2,361	679	27	27		71
19 visits or more	21,900	20,167	17,220	2,947	1,465	94	94		174
Not stated	25,448	9,598	7,364	2,234	2,397	691	691		12,762
Median number of visits	11.6	12.4	12.7	11.1	9.1	5.1	5.1		9.9

See footnotes at end of table.

Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 2001 -- Con.

				Month of	pregnancy pre	enatal care be	gan		
Number of prenatal visits	All		1st trimester		2d trimester	L	ate or no care		
and race and Hispanic origin of mother	births -	Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	Not stated
Black, non-Hispanic	589,917	425,083	316,867	108,216	108,638	37,199	24,120	13,079	18,997
No visits	13.079					13.079		13.079	
1-2 visits	11,652	2.776	1,758	1,018	3,190	4,995	4,995		691
3-4 visits	22,278	6,549	3.820	2,729	8,548	6,572	6,572		609
5-6 visits	40.423	16,645	9,939	6.706	17,215	5,744	5,744		819
7-8 visits	59,162	32.152	19,535	12,617	23,104	3,106	3,106		800
9-10 visits	118.966	86.936	57.876	29.060	28,261	1.830	1.830		1.939
11-12 visits	125,193	109.045	81.673	27,372	14.754	600	600		794
13-14 visits	76.993	71.112	57.798	13.314	5.158	254	254		469
15-16 visits	62,799	58,304	50,283	8,021	3.960	227	227		308
17-18 visits	13.228	12.472	10.166	2.306	661	25	25		70
19 visits or more	21,492	19.787	16.895	2,892	1,442	92	92		171
Not stated	24,652	9,305	7,124	2,181	2,345	675	675		12,327
Median number of visits	11.7	12.4	12.7	11.1	9.1	5.1	5.1		9.8
Hispanic ²	851,851	625,816	457,753	168,063	152,170	48,502	35,400	13,102	25,363
No visits	13.102					13.102		13,102	
1-2 visits	13,422	3,476	2,292	1.184	3,013	6.411	6.411	-, -	522
3-4 visits	26,730	7.042	3,942	3.100	9,498	9,460	9,460		730
5-6 visits	53.066	19,483	10,492	8,991	23,556	9,105	9.105		922
7-8 visits	88,196	47.567	27,298	20,269	34,253	5,143	5,143		1.233
9-10 visits	182,178	135,258	86,690	48.568	42,246	2,701	2,701		1,973
11-12 visits	189,403	166,368	122,829	43,539	20,917	1,027	1,027		1,091
13-14 visits	113,511	105,519	85.923	19.596	7.060	348	348		584
15-16 visits	93,595	86,865	73,566	13,299	6,071	278	278		381
17-18 visits	17,728	16,744	14,041	2,703	844	66	66		74
19 visits or more	24,315	22,644	19,572	3,072	1,424	94	94		153
Not stated	36,605	14,850	11,108	3,742	3,288	767	767		17,700
Median number of visits	11.7	12.4	12.7	11.0	9.3	5.3	5.3		9.7

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

Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 2001

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

	A.U.	Obstetric			ļ	Age of mothe	ər			Net
Obstetric procedure and race of mother	All births ¹	procedure reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	- Not stated ²
All races ³										
Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound	4,025,933 4,025,933 4,025,933 4,025,933 4,025,933 4,025,933	87,927 3,397,544 819,924 702,660 84,602 2,696,063	21.9 847.9 204.6 175.4 21.1 672.8	5.9 860.9 195.6 191.8 22.9 640.1	7.4 855.9 205.2 183.4 22.7 659.5	9.8 850.0 212.6 177.2 21.1 677.5	17.5 842.3 205.6 169.2 19.9 689.3	86.2 829.9 195.1 155.6 18.8 688.9	126.8 817.1 188.8 145.6 19.5 680.4	18,830 18,830 18,830 18,830 18,830 18,830
White										
Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound	3,177,626 3,177,626 3,177,626 3,177,626 3,177,626 3,177,626 3,177,626	71,930 2,685,098 680,846 561,467 67,022 2,162,694	22.7 849.0 215.3 177.5 21.2 683.8	5.7 860.5 206.5 197.0 23.3 655.3	7.2 856.2 216.7 187.5 22.9 672.4	9.6 852.1 223.8 178.9 21.3 686.5	17.5 844.9 215.3 170.5 20.0 697.6	88.3 832.0 204.3 157.1 18.5 696.8	133.3 817.8 196.4 148.2 19.2 688.7	15,052 15,052 15,052 15,052 15,052 15,052
Black										
Amniocentesis Electronic fetal monitoring Induction of labor Stimulation of labor Tocolysis Ultrasound	606,156 606,156 606,156 606,156 606,156 606,156	8,701 517,061 102,847 97,216 12,683 372,493	14.4 855.6 170.2 160.9 21.0 616.4	6.5 867.2 170.4 178.0 20.7 598.2	8.0 862.6 170.2 167.3 21.4 610.6	10.5 852.9 172.5 158.8 20.7 624.5	15.5 843.9 170.6 147.3 21.0 630.0	53.2 835.2 163.3 135.3 21.0 630.0	76.2 834.6 166.2 125.1 20.6 630.1	1,837 1,837 1,837 1,837 1,837 1,837

Total number of births to residents of areas reporting specified obstetric procedures.
 No response reported for the obstetric procedures item.
 Includes races other than white and black.

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

Table 37. Live births to mothers with selected complications of labor and/or delivery and rates by age of mother, by race of mother: United States, 2001

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

	All births ¹	Complication reported	Age of mother							
Complication and race of mother			All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	 Not stated ²
All races ³										
-ebrile	4.025.933	61.431	15.4	19.4	15.9	15.7	14.4	12.2	11.1	25.152
Meconium, moderate/heavy	4,025,933	206,123	51.5	58.6	53.0	49.8	49.1	49.9	52.6	25,152
Premature rupture of membrane	4,025,933	95,129	23.8	24.7	22.8	23.0	24.1	25.3	27.8	25.152
Abruptio placenta	4,025,933	21.765	5.4	5.2	5.3	5.1	5.4	6.5	8.6	25,152
Placenta previa	4.025.933	13.198	3.3	1.0	1.8	2.9	4.4	6.5	8.8	25,152
Other excessive bleeding	4,025,933	26,231	6.6	6.4	6.2	6.4	6.6	7.4	8.2	25,152
Seizures during labor	4,025,933	1,282	0.3	0.7	0.3	0.3	0.2	0.2	0.3	25,152
Precipitous labor	4,025,933	75,745	18.9	13.6	17.8	19.1	20.6	22.4	21.8	25,152
Prolonged labor	4,025,933	29,192	7.3	8.4	7.5	7.2	7.0	6.6	7.4	25,152
Dysfunctional labor	4,025,933	112,268	28.1	28.5	26.8	28.0	28.5	28.8	31.4	25,152
Breech/Malpresentation	4,025,933	153,141	38.3	28.6	31.2	37.3	44.5	49.4	56.3	25,152
Cephalopelvic disproportion	4,025,933	66,060	16.5	16.8	15.2	16.8	17.4	16.5	17.1	25,152
Cord prolapse	4,025,933	7,267	1.8	1.3	1.6	1.8	2.0	2.4	2.6	25,152
Anesthetic complication ⁴	3,660,523	2,414	0.7	0.5	0.5	0.7	0.8	0.8	0.8	27,726
Fetal distress ⁴	3,660,523	140,617	38.7	43.4	38.2	36.8	37.4	40.9	46.0	27,726
White										
-ebrile	3,177,626	46.631	14.8	18.9	15.7	15.2	13.7	11.5	10.8	20.118
Meconium, moderate/heavy	3,177,626	151.345	47.9	53.2	49.4	46.5	46.1	46.9	49.5	20,118
Premature rupture of membrane	3,177,626	72,234	22.9	22.9	21.8	22.2	23.4	24.5	27.4	20,118
Abruptio placenta	3,177,626	16,571	5.2	5.0	5.0	5.0	5.2	6.3	8.2	20,118
Placenta previa	3,177,626	10,204	3.2	1.0	1.8	2.8	4.2	6.2	8.1	20,118
	3,177,626	20.939	6.6	6.7	6.4	6.5	6.5	7.3	7.8	20,110
Other excessive bleeding		20,939	0.0	0.7	0.4	0.3	0.5	0.2	0.3	20,110
Seizures during labor	3,177,626									- , -
Precipitous labor	3,177,626	58,664	18.6	12.5	17.0	18.6	20.4	22.7	21.9	20,118
Prolonged labor	3,177,626	23,794	7.5	8.8	7.9	7.3	7.1	6.9	7.8	20,118
Dysfunctional labor	3,177,626	88,782	28.1	28.6	27.1	28.2	28.3	28.5	31.6	20,118
Breech/Malpresentation	3,177,626	125,809	39.8	30.8	32.7	38.4	45.7	50.2	56.8	20,118
Cephalopelvic disproportion	3,177,626	53,436	16.9	17.6	16.0	17.4	17.2	16.5	17.4	20,118
Cord prolapse	3,177,626	5,722	1.8	1.2	1.6	1.8	2.0	2.4	2.6	20,118
Anesthetic complication ⁴	2,865,647	1,962	0.7	0.5	0.6	0.7	0.8	0.8	0.9	22,313
Fetal distress ⁴	2,865,647	104,731	36.8	41.2	36.5	35.1	35.6	38.9	44.0	22,313
Black										
-ebrile	606,156	9,194	15.2	20.4	15.5	13.3	13.5	12.3	9.3	2,562
Meconium, moderate/heavy	606,156	41,937	69.5	73.5	66.7	67.5	71.4	72.0	73.2	2,562
Premature rupture of membrane	606.156	16,773	27.8	28.5	26.2	26.4	29.4	32.2	31.9	2.562
Abruptio placenta	606,156	4,005	6.6	5.6	6.6	6.4	7.1	8.2	11.1	2,562
Placenta previa	606,156	1,832	3.0	0.9	2.1	3.3	4.7	6.6	8.6	2.562
Other excessive bleeding	606,156	2.985	4.9	4.5	4.5	4.6	5.6	6.5	8.6	2,562
Seizures during labor	606,156	2,303	0.5	0.8	0.5	0.4	0.3	*	*	2,562
Precipitous labor	606,156	12,192	20.2	15.7	19.8	22.1	22.5	21.9	21.8	2,562
	606,156	3,342	20.2 5.5	6.8	5.6	5.2	4.8	4.9	4.7	2,562
Prolonged labor										
Dysfunctional labor	606,156	15,283	25.3	27.0	24.3	24.3	26.6	26.0	25.7	2,562
Breech/Malpresentation	606,156	18,533	30.7	22.8	25.6	31.6	39.1	46.2	53.3	2,562
Cephalopelvic disproportion	606,156	7,653	12.7	14.6	12.2	11.6	13.6	11.9	11.0	2,562
Cord prolapse	606,156	1,139	1.9	1.3	1.8	1.9	2.3	2.7	3.3	2,562
Anesthetic complication ⁴	565,406	315	0.6	0.4	0.5	0.6	0.8	0.7	*	2,902
Fetal distress 4	565,406	27,180	48.3	49.6	45.0	45.8	51.3	56.8	61.3	2,902

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
 Total number of births to residents of areas reporting specified complication.
 No response reported for the complications item.
 Includes races other than white and black.
 Texas does not report this complication.

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

Table 38. Live births by attendant, place of delivery, and race and Hispanic origin of mother: United States, 2001

Place of delivery and race and Hispanic origin of mother		Physician				Midwife			
	All births	Total	Doctor of medicine	Doctor of osteopathy	Total	Certified nurse midwife	Other midwife	Other	Unspecified
All races ¹									
Total	4,025,933	3,681,029	3,509,203	171,826	322,398	305,606	16,792	21,338	1,168
In hospital ²	3,989,662	3,676,520	3,505,396	171,124	300,647	296,620	4,027	11,816	679
Not in hospital Freestanding birthing center	35,944 9,978	4,311 1,318	3,623 888	688 430	21,687 8,390	8,932 5,607	12,755 2,783	9,489 259	457 11
Clinic or doctor's office	494	223	207	16	229	120	109	41	1
Residence Other	23,245 2,227	2,130 640	1,910 618	220 22	12,655 413	3,004 201	9,651 212	8,122 1,067	338 107
Not specified	327	198	184	14	64	54	10	33	32
White, total									
Total	3,177,626	2,903,305	2,756,334	146,971	256,663	240,989	15,674	16,750	908
In hospital ²	3,145,622	2,899,989	2,753,669	146,320	236,050	232,684	3,366	9,009	574
Not in hospital Freestanding birthing center	31,744 9,251	3,152 1,204	2,514 776	638 428	20,554 7,803	8,256 5,161	12,298 2,642	7,726 234	312 10
Clinic or doctor's office	432	177	163 1,233	14 182	223 12,162	116	107	31 6 722	1 246
Residence Other	20,546 1,515	1,415 356	342	14	366	2,814 165	9,348 201	6,723 738	240 55
Not specified	260	164	151	13	59	49	10	15	22
White, non-Hispanic									
Total	2,326,578	2,138,732	2,020,787	117,945	175,097	161,679	13,418	12,262	487
In hospital ²	2,299,043	2,135,865	2,018,544	117,321	157,198	154,465	2,733	5,700	280
Not in hospital Freestanding birthing center	27,332 7,556	2,735 1,143	2,122 721	613 422	17,843 6,191	7,168 4,372	10,675 1,819	6,552 213	202 9
Clinic or doctor's office	392	160	147	13	205	104	101	26	1
Residence Other	18,312 1,072	1,174 258	1,009 245	165 13	11,155 292	2,573 119	8,582 173	5,816 497	167 25
Not specified	203	132	121	11	56	46	10	10	5
Black, total									
Total	606,156	557,375	538,888	18,487	45,284	44,712	572	3,335	162
In hospital ²	603,084	556,395	537,951	18,444	44,626	44,257	369	2,002	61
Not in hospital Freestanding birthing center	3,034 463	967 69	925 68	42 1	655 378	452 292	203 86	1,321 16	91
Clinic or doctor's office	29	23	23	-	3	3	-	3	-
Residence Other	2,032 510	632 243	597 237	35 6	249 25	135 22	114 3	1,097 205	54 37
Not specified	38	13	12	1	3	3	-	12	10
Black, non-Hispanic									
Total	589,917	543,117	525,219	17,898	43,400	42,858	542	3,250	150
In hospital ²	586,966	542,172	524,315	17,857	42,781	42,423	358	1,954	59
Not in hospital Freestanding birthing center	2,920 443	934 69	894 68	40 1	616 358	432 281	184 77	1,286 16	84
Clinic or doctor's office	28	22	22	-	3	3	-	3	-
Residence Other	1,957 492	606 237	573 231	33 6	231 24	126 22	105 2	1,069 198	51 33
Not specified	31	11	10	1	3	3	-	10	7
Hispanic ³									
Total	851,851	765,437	736,549	28,888	81,724	79,698	2,026	4,325	365
In hospital ²	847,859	765,007	736,144	28,863	79,275	78,685	590	3,308	269
Not in hospital Freestanding birthing center	3,974 1,676	417 54	393 50	24 4	2,446 1,601	1,010 773	1,436 828	1,015 20	96 1
Clinic or doctor's office	37	16	15	1	16	10	6	5	-
Residence Other	1,824 437	243 104	225 103	18 1	758 71	183 44	575 27	759 231	64 31
Not specified	18	13	12	1	3	3	-	231	-

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

Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-2001

			Births by	method of de	livery			Cesarean	delivery rate	Data af
Year and race		Vagi	nal		Cesarean					 Rate of vaginal birt
and Hispanic origin of mother	All births	Total	After previous cesarean	Total	Primary	Repeat	Not stated	Total ¹	Primary ²	after previous cesarean
All races ⁴										
001	4,025,933	3,027,993	74,048	978,411	601,383	377,028	19,529	24.4	16.9	16.4
000	4,058,814	3,108,188	89,978	923,991	577,638	346,353	26,635	22.9	16.1	20.6
999	3,959,417	3,063,870	97,680	862,086	542,080	320,006	33,461	22.0	15.5	23.4
998	3,941,553	3,078,537	108,903	825,870	519,975	305,895	37,146	21.2	14.9	26.3
997	3,880,894	3,046,621	112,145	799,033	502,526	296,507	35,240	20.8	14.6	27.4
996	3,891,494	3,061,092	116,045	797,119	503,724	293,395	33,283	20.7	14.6	28.3
995	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	4,000,240	3,098,796	103,581	861,987	539,251	322,736	39,457	21.8	15.3	24.3
992	4,065,014	3,100,710	97,549	888,622	554,662	333,960	75,682	22.3	15.6	22.6
991	4,110,907	3,100,891	90,690	905,077	569,195	335,882	104,939	22.6	15.9	21.3
990 ⁵ 989 ⁶	4,110,563	3,111,421	84,299	914,096	575,066	339,030	85,046	22.7	16.0	19.9
989 °	3,798,734	2,793,463	71,019	826,955	521,873	305,082	178,316	22.8	16.1	18.9
White, total										
001	3,177,626	2,394,930	58,053	766,771	467,285	299,486	15,925	24.3	16.7	16.2
000	3,194,005	2,449,264	70,414	723,209	449,161	274,048	21,532	22.8	15.9	20.4
999	3,132,501	2,426,092	77,158	678,952	424,148	254,804	27,457	21.9	15.3	23.2
998	3,118,727	2,440,113	86,495	649,987	406,439	243,548	28,627	21.0	14.7	26.2
997	3,072,640	2,415,236	89,522	630,613	393,603	237,010	26,791	20.7	14.5	27.4
996	3,093,057	2,434,079	93,783	631,409	395,851	235,558	27,569	20.6	14.5	28.5
995	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	3,149,833	2,435,229	82,995	682,355	423,540	258,815	32,249	21.9	15.3	24.3
992	3,201,678	2,434,959	77,977	705,841	437,398	268,443	60,878	22.5	15.7	22.5
991	3,241,273	2,434,900	72,564	723,088	452,534	270,554	83,285	22.9	16.1	21.1
990 ⁵ 989 ⁶	3,252,473 3,022,537	2,453,857 2,212,843	67,191 56,851	732,713 667,114	458,656 418,177	274,057 248,937	65,903 142,580	23.0 23.2	16.1 16.2	19.7 18.6
White, non-Hispanic	0,022,007	2,212,010	00,001	007,111		210,001	,000	2012	10.2	1010
•	0 000 570	4 740 554	40.045	507 400	050 077	010 511	10 500	04.5	17.0	10.0
2001	2,326,578	1,746,551	43,215	567,488	353,977	213,511	12,539	24.5	17.2	16.8
2000	2,362,968	1,804,550	52,912	540,794	342,732	198,062	17,624 21,717	23.1 22.1	16.4	21.1
999 998	2,346,450 2,361,462	1,810,682 1,842,420	59,480 67,787	514,051 495,550	327,106 315,138	186,945 180,412	23,492	22.1	15.7 15.1	24.1 27.3
997	2,333,363	1,829,213	70,284	481,982	305,605	176,377	22,168	20.9	14.8	28.5
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	1,902,433	67,536	542,013	338,236	203,777	27,585	22.2	15.6	24.9
	2,527,207	1,916,414	63,828	566,788	352,470	214,318	44,005	22.8	16.0	22.9
991 ⁸	2,589,878	1,941,726	60,174	587,802	368,721	219,081	60,350	23.2	16.4	21.5
990 ^{5, 9} 989 ^{6, 10}	2,626,500	1,972,754	55,952	603,467	378,508	224,959	50,279	23.4	16.5	19.9
989 0, 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										
001	606,156	447,458	11,747	156,071	97,429	58,642	2,627	25.9	18.3	16.7
000	622,598	468,497	14,382	150,401	94,767	55,634	3,700	24.3	17.3	20.5
999	605,970	462,401	15,438	139,471	88,269	51,202	4,098	23.2	16.5	23.2
998	609,902	470,088	17,062	135,727	86,438	49,289	4,087	22.4	16.0	25.7
997 996	599,913	466,001	16,986	130,142	83,025	47,117	3,770	21.8	15.6	26.5
996	594,781 603,139	462,378 468,984	16,866 16,224	128,357 130,482	82,646 84,441	45,711 46,041	4,046 3,673	21.7 21.8	15.6 15.7	27.0 26.1
995	636,391	400,904 493,879	16,970	130,462	88,636	40,041 49,431	4,445	21.8	15.7	25.6
993	658,875	509,816	16,179	143,452	91,677	51,775	5,607	22.0	15.7	23.8
992	673,633	514,929	15,382	146,480	93,165	53,315	12,224	22.0	15.7	22.4
991	682,602	519,047	14,213	145,583	92,645	52,938	17,972	21.9	15.5	21.2
990 ⁵	679,236	516,581	13,496	146,472	93,476	52,996	16,183	22.1	15.7	20.3
989 6	611,147	452,921	11,104	127,907	82,695	45,212	30,319	22.0	15.8	19.7

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, 1989-2001 --Con.

			Births by	method of de	livery			Cesarean	delivery rate	D . (
Year and race and Hispanic origin	-	Vagi	nal		Cesarean					 Rate of vaginal birth after
of mother	All births	Total	After previous cesarean	Total	Primary	Repeat	Not stated	Total ¹	Primary ²	previous cesarean ³
Black, non-Hispanic										
2001 2000 1999 1998 1997 1996 1995 1994 1993 1994 1993 1992 1994 1993 1994 1993 1994 1995 1994 1995 1994 1995 1995 1994 1995 1995 1996 1995 1996 1997 1998 1995 1996 1995 1995 1996 1995 1997 1998 1995 1995 1995 1995 1995 1996 1995 1995 1996 1995 1997 1998 1995 1995 1995 1995 1995 1995 1995 1996 1997 1998 1995 1995 1995 1995 1997 1998 1995 1995 1995 1996 1997 1998 1995 1995 1995 1996 1997 1998 1995 1995 1996 1997 1998 1995 1995 1995 1996 1997 1998 1995 1994 1995 1995 1996 1997 1998 1998 1995 1994 1995 1995 1995 1995 1995 1996 1997 1996 1995 1997 1996 1997 1996 1997 1998 1997 1998 1997 1998 1998 1998 1997 1998 1997 1998 1997 1997 1998 1997	589,917 604,346 588,981 593,127 581,431 578,099 587,781 619,198 641,273 657,450 666,758 661,701 611,269	435,455 454,736 449,580 457,186 457,186 457,104 480,551 496,333 502,669 507,522 503,720 440,310	$\begin{array}{c} 11,417\\ 13,910\\ 14,999\\ 16,510\\ 16,353\\ 16,322\\ 15,721\\ 16,478\\ 15,675\\ 14,950\\ 13,847\\ 13,157\\ 10,726\end{array}$	151,908 146,042 135,508 131,999 126,138 124,836 127,171 134,526 139,702 143,153 142,417 142,838 125,290	94,912 92,044 85,898 84,169 80,599 80,457 82,395 86,411 89,315 91,086 90,664 91,175 81,177	56,996 53,998 49,610 47,830 45,539 44,379 44,776 48,115 50,387 52,067 51,753 51,663 44,113	2,554 3,568 3,893 3,942 3,549 3,519 3,506 4,121 5,238 11,628 16,819 15,143 45,669	25.9 24.3 23.2 22.4 21.8 21.7 21.8 21.9 22.0 22.2 21.9 22.1 22.2	18.3 17.3 16.5 16.0 15.6 15.7 15.7 15.7 15.7 15.5 15.7 15.5 15.7	16.7 20.5 23.2 25.7 26.4 26.9 26.0 25.5 23.7 22.3 21.1 20.3 19.6
Hispanic ⁷ 2001 2000 1999	851,851 815,868 764,339	648,821 633,220 599,118	14,846 17,062 16,915	199,874 179,583 161,035	113,529 104,597 94,433	86,345 74,986 66,602	3,156 3,065 4,186	23.6 22.1 21.2	15.2 14.5 14.0	14.7 18.5 20.3
1999 1998 1997 1996 1995 1994 1993 1992 1992 1991 1992 1991 1992 1991 1990 1990 1990 1991 1990 <t< td=""><td>764,339 734,661 709,767 701,339 679,768 665,026 654,418 643,271 623,085 595,073 532,249</td><td>599,118 580,143 563,114 558,105 539,731 525,928 514,493 494,338 472,126 458,242 385,462</td><td>16,915 17,803 17,942 18,491 17,396 16,206 14,586 13,111 11,615 10,395 8,549</td><td>161,035 150,317 142,907 139,554 136,640 135,569 136,279 133,369 129,752 122,969 105,268</td><td>94,433 88,763 84,410 83,392 82,662 81,961 82,576 81,211 80,228 76,027 64,905</td><td>66,602 61,554 58,497 56,162 53,978 53,608 53,703 52,158 49,524 46,942 40,363</td><td>4,186 4,201 3,746 3,680 3,397 3,529 3,646 15,564 21,207 13,862 41,519</td><td>21.2 20.6 20.2 20.0 20.2 20.5 20.9 21.2 21.6 21.2 21.5</td><td>14.0 13.6 13.4 13.4 13.7 13.9 14.2 14.4 14.8 14.5 14.7</td><td>20.3 22.4 23.5 24.8 24.4 23.2 21.4 20.1 19.0 18.1 17.5</td></t<>	764,339 734,661 709,767 701,339 679,768 665,026 654,418 643,271 623,085 595,073 532,249	599,118 580,143 563,114 558,105 539,731 525,928 514,493 494,338 472,126 458,242 385,462	16,915 17,803 17,942 18,491 17,396 16,206 14,586 13,111 11,615 10,395 8,549	161,035 150,317 142,907 139,554 136,640 135,569 136,279 133,369 129,752 122,969 105,268	94,433 88,763 84,410 83,392 82,662 81,961 82,576 81,211 80,228 76,027 64,905	66,602 61,554 58,497 56,162 53,978 53,608 53,703 52,158 49,524 46,942 40,363	4,186 4,201 3,746 3,680 3,397 3,529 3,646 15,564 21,207 13,862 41,519	21.2 20.6 20.2 20.0 20.2 20.5 20.9 21.2 21.6 21.2 21.5	14.0 13.6 13.4 13.4 13.7 13.9 14.2 14.4 14.8 14.5 14.7	20.3 22.4 23.5 24.8 24.4 23.2 21.4 20.1 19.0 18.1 17.5

Percent of all live births by cesarean delivery.
 Number of primary cesareans per 100 live births to women who have not had a previous cesarean.
 Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.
 Includes races other than white and black and origin not stated.
 Excludes data for Oklahoma, which did not report method of delivery on the birth certificate.
 Excludes data for Clusiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.
 Includes ata 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, 2001

			Births by	method of de	livery			Cesarean	delivery rate	
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 ¹	Primary ²	birth after previous cesarean
All races ⁴	4,025,933	3,027,993	74,048	978,411	601,383	377,028	19,529	24.4	16.9	16.4
Jnder 20 years	453,725	376,020	2,066	75,999	66,757	9,242	1,706	16.8	15.1	18.3
20-24 years	1,021,627	813,287	13,996	203,942	137,501	66,441	4,398	20.0	14.7	17.4
25-29 years	1,058,265	802,455	20,391	250,697	152,218	98,479	5,113	23.8	16.3	17.2
80-34 years	942,697	674,460	22,503	263,193	146,742	116,451	5,044	28.1	18.4	16.2
85-39 years	451,723	301,497	12,514	147,590	77,443	70,147	2,636	32.9	21.1	15.1
0-54 years	97,896	60,274	2,578	36,990	20,722	16,268	632	38.0	26.4	13.7
Vhite, total	3,177,626	2,394,930	58,053	766,771	467,285	299,486	15,925	24.3	16.7	16.2
Jnder 20 years	322,658	268,809	1,343	52,599	46,420	6,179	1,250	16.4	14.8	17.9
20-24 years	779,529	623,306	10,010	152,775	103,704	49,071	3,448	19.7	14.5	16.9
	850,343	646,670	15,835	199,448	120,779	78,669	4,225	23.6	16.1	16.8
25-29 years										
30-34 years	777,294	558,749	18,419	214,281	118,590	95,691	4,264	27.7	18.0	16.1
5-39 years	368,816	248,161	10,317	118,433	61,544	56,889	2,222	32.3	20.6	15.4
0-54 years	78,986	49,235	2,129	29,235	16,248	12,987	516	37.3	25.6	14.1
White, non-Hispanic	2,326,578	1,746,551	43,215	567,488	353,977	213,511	12,539	24.5	17.2	16.8
Jnder 20 years	191,742	158,740	697	32,172	28,914	3,258	830	16.9	15.5	17.6
20-24 years	523,027	417,250	6,328	103,216	72,028	31,188	2,561	19.8	14.9	16.9
25-29 years	622,361	474,282	10,996	144,770	92,115	52,655	3,309	23.4	16.6	17.3
30-34 years	625,435	452,285	14,743	169,613	97,261	72,352	3,537	27.3	18.2	16.9
35-39 years	300,007	203,762	8,613	94,376	50,403	43,973	1,869	31.7	20.5	16.4
0-54 years	64,006	40,232	1,838	23,341	13,256	10,085	433	36.7	25.7	15.4
Black, total	606,156	447,458	11,747	156,071	97,429	58,642	2,627	25.9	18.3	16.7
Jnder 20 years	114,298	92,725	653	21,187	18,362	2,825	386	18.6	16.6	18.8
20-24 years	199,221	154,358	3.443	44,078	28,640	15,438	785	22.2	16.0	18.2
25-29 years	137,400	100,218	3,446	36,544	20,844	15,700	638	26.7	17.7	18.0
0-34 years	94,660	63,432	2,611	30,731	16,788	13,943	497	32.6	21.6	15.8
5-39 years	49,065	30,163	1,317	18,651	10,003	8,648	251	38.2	25.7	13.2
10-54 years	11,512	6,562	277	4,880	2,792	2,088	70	42.6	30.8	11.7
Black, non-Hispanic	589,917	435,455	11,417	151,908	94,912	56,996	2,554	25.9	18.3	16.7
Jnder 20 years	111,653	90,524	640	20,750	17,972	2,778	379	18.6	16.7	18.7
20-24 years	194,391	150,495	3,365	43,127	27,973	15,154	769	22.3	16.0	18.2
25-29 years	133,491	97,362	3,347	35,506	20,272	15,234	623	26.7	17.7	18.0
								32.6		
80-34 years	91,710	61,473	2,534	29,758	16,271	13,487	479		21.6	15.8
5-39 years	47,494	29,228	1,263	18,028	9,703	8,325	238	38.1	25.8	13.2
0-54 years	11,178	6,373	268	4,739	2,721	2,018	66	42.6	30.8	11.7
lispanic ⁵	851,851	648,821	14,846	199,874	113,529	86,345	3,156	23.6	15.2	14.7
Jnder 20 years	132,562	111,457	652	20,700	17,757	2,943	405	15.7	13.8	18.1
20-24 years	258,431	207,579	3,709	50,000	32,008	17,992	852	19.4	13.6	17.1
25-29 years	227,910	172,130	4,859	54,900	28,663	26,237	880	24.2	14.6	15.6
80-34 years	150,352	105,241	3,649	44,451	21,129	23,322	660	29.7	17.2	13.5
35-39 years	67,952	43,643	1,689	24,007	11,045	12,962	302	35.5	20.8	11.5
0-54 years	14,644	8,771	288	5,816	2,927	2,889	57	39.9	25.7	9.1

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.
 Includes all persons of Hispanic origin of any race.

Table 41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery by race and Hispanic origin of mother: United States, each State and territory, 2001

[By place of residence]

		0	esarean del	ivery rate			К	ate of vagi	nal births af	ter previot	us cesarea	1 -
		W	nite	Bla	ick			Wł	nite	Bla	ack	
State	All races ³	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴	All races ³	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴
United States 5	24.4	24.3	24.5	25.9	25.9	23.6	16.4	16.2	16.8	16.7	16.7	14.7
Alabama	27.6	28.1	28.5	26.8	26.8	21.5	11.8	11.0	11.0	13.5	13.5	12.3
Alaska Arizona	18.9	21.4 20.1	21.3	22.3 22.2	22.5 22.2	21.7	24.5	18.5	19.5	12.4	12.1	15.0
	20.0 27.6	20.1	21.7 27.5	30.3	30.4	18.3 22.9	16.7 12.7	15.8 13.6	16.5 12.5	9.6	9.6	15.0 23.2
Arkansas												
California	25.1	25.0	25.9	28.2	28.3	24.4	10.9 23.5	10.8 23.4	11.6 21.4	10.7	10.8	10.4
Colorado	19.6	19.5	20.1	20.1	20.1	18.3 22.4				25.1	24.8	26.8
Connecticut	24.3	24.2	24.7	24.3	24.3		18.8	18.9	18.8	17.0	17.6	18.3
Delaware	25.5	25.0	25.5	26.5	26.3	23.2	17.0	17.3	15.3	16.8	17.1	26.7
District of Columbia	25.0	24.4	28.3	25.3	25.4	17.2	14.0	12.2		15.0	15.1	
Florida	26.4	26.7	25.9	26.0	25.9	28.3	11.1	10.8	12.2	11.9	12.1	8.2
Georgia Hawaii	24.3 20.1	24.1 19.9	25.3 19.8	24.8 19.4	24.8 19.0	18.9 20.4	14.7 19.3	14.6 16.2	14.4 16.3	14.4	14.3	15.2 16.4
Idaho	18.7	18.5	18.3	13.4	13.0	19.5	26.3	26.4	25.8	*	*	30.4
Illinois	22.3	22.2	23.2	22.4	22.4	19.5	20.3	20.4	25.8	18.6	18.6	24.1
Indiana	23.3	23.1	23.2	24.3	24.3	22.0	16.6	16.6	16.5	16.6	16.5	18.4
lowa	23.1	23.0	23.1	24.5	24.6	21.5	17.7	17.6	17.2	20.9	21.3	21.6
Kansas	23.8	23.8	24.3	24.9	24.9	21.2	15.8	15.4	15.2	16.7	16.6	15.5
Kentucky	26.2	26.3	26.3	25.2	25.2	25.9	12.4	12.1	11.9	14.6	14.7	18.9
Louisiana	29.9	31.0	31.1	28.7	28.7	29.7	8.2	6.7	6.6	10.3	10.3	*
Maine	24.1	24.1	24.1	22.9	23.2	26.0	13.9	13.7	13.8	*	*	*
Maryland	25.4	24.4	24.9	27.5	27.6	20.7	20.3	21.0	20.8	18.5	18.6	22.7
Massachusetts	25.4	25.5	26.1	26.7	27.0	21.9	19.5	19.2	18.8	19.9	20.4	21.2
Michigan	23.4	23.6	23.7	22.4	22.4	22.1	16.7	15.8	15.5	20.4	20.4	18.9
Minnesota	21.1	21.5	21.5	21.5	21.6	20.7	20.5	19.0	17.9	32.4	32.4	29.8
Mississippi	29.7	30.6	30.8	28.7	28.7	23.8	8.6	7.4	7.3	9.8	9.8	*
Missouri	23.9	24.1	24.2	22.8	22.8	22.7	19.1	18.6	18.6	21.4	21.4	18.5
Montana	21.6	21.2	21.0	*	*	25.0	18.9	19.7	20.3	*	*	*
Nebraska	24.1	24.3	24.8	22.0	22.0	20.9	15.5	15.2	14.5	15.0	15.0	19.9
Nevada	23.7	23.1	25.2	27.8	27.6	20.3	15.4	15.7	13.4	15.7	16.0	18.4
New Hampshire	23.0	22.9	22.9	32.4	32.9	22.3	22.2	22.6	22.8	*	*	*
New Jersey	28.9	28.9	29.3	29.7	29.4	28.0	21.3	20.6	20.6	24.4	25.3	20.2
New Mexico	18.6	19.1	19.8	23.8	24.9	18.6	24.7	22.5	25.5	*	*	20.9
New York	25.9	26.0	26.3	26.5	26.7	25.1	22.1	22.0	22.6	22.4	22.8	20.0
North Carolina	24.9	24.5	25.5	26.5	26.6	19.5	16.9	16.5	15.2	17.6	17.6	23.0
North Dakota	21.1	21.2	21.2	22.5	22.8	26.3	23.7	24.1	24.4	*	*	*
Ohio	21.7	21.7	21.7	22.0	22.0	20.3	24.5	24.0	24.0	27.1	27.2	23.5
Oklahoma	25.9	25.8	26.3	26.5	26.5	22.2	11.1	11.2	10.6	11.5	11.4	15.7
Oregon	21.0	20.7	21.1	26.3	26.1	19.2	21.0	21.1	19.8	*	*	25.7
Pennsylvania Rhode Island	23.0 24.1	23.0 24.4	23.1 25.2	23.1 23.3	23.2 23.6	21.3 22.4	23.3 18.7	22.4 19.1	22.2 17.7	28.4	28.4	25.0 20.2
South Carolina	26.4	26.2	26.6	27.1	27.1	21.7	13.6	13.5	13.0	13.6	13.6	18.7
South Dakota	23.0	23.0	23.0	25.0	25.0	20.1	18.8	19.9	19.3	*	*	*
Tennessee	26.2	26.4	26.7	25.7	25.7	22.4	14.4	13.5	13.1	17.5	17.6	18.0
Texas	26.3	26.0	26.7	28.7	28.7	25.4	10.6	10.7	9.6	9.3	9.2	11.5
Utah	17.2	17.2	16.6	19.9	20.3	20.6	29.1	29.0	28.9	*	*	29.7
Vermont	17.8	17.7	17.8	*	*	*	40.0	39.6	39.6	*	*	*
Virginia	24.6	24.2	24.5	25.3	25.3	22.1	16.4	15.8	15.9	17.2	17.1	16.1
Washington	22.6	22.5	22.6	26.0	26.0	22.0	18.6	18.6	17.7	18.8	18.4	21.8
West Virginia	26.6	26.5	26.5	30.1	30.1	*	13.4	13.3	13.3	*	*	*
Wisconsin	19.1	19.6	19.7	16.9	16.9	18.4	23.0	22.3	22.3	28.9	28.8	22.9
Wyoming	20.1	19.8	19.6	*	*	22.3	21.2	21.6	22.2	*	*	*
Puerto Rico	42.0	42.2		40.6			4.7	4.6		5.4		
Virgin Islands	25.2	27.9	26.0	23.9	23.5	26.7	15.8	*	*	*	*	*
Guam	21.8	16.4	17.9	*	*	*	15.7	*	*	*	*	*
American Samoa												

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

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, 2001

	All births to mothers	Cesarean	delivery rate	Rate of
Medical risk factor and complication	with specified condition and/or procedure	Total ¹	Primary ²	vaginal birth after previous cesarean ³
Medical risk factors				
Anemia		24.5	17.0	21.4
Cardiac disease		28.7	20.6	18.2
Acute or chronic lung disease		27.9	20.0	20.0
Diabetes		39.7	28.3	11.9
Genital herpes ⁴		35.2	28.4	20.4
lydramnios/Oligohydramnios		38.5	32.6	15.3
lemoglobinopathy		27.9	19.5	19.6
Aypertension, chronic		44.7	34.1	10.6
Typertension, pregnancy-associated		39.7	34.1	11.8
Eclampsia		51.6	46.5	9.7
ncompetent cervix		37.5	29.7	18.3
Renal disease		27.7	20.1	19.1
Rh sensitization ⁵		24.6	17.1	19.3
Iterine bleeding ⁴		35.0	27.4	17.4
Complications of labor and/or delivery				
-ebrile		31.1	29.7	43.4
leconium, moderate/heavy		21.8	18.9	38.9
Premature rupture of membrane		27.8	24.3	31.0
Abruptio placenta		61.2	56.7	12.8
Placenta previa		80.9	77.0	3.6
Other excessive bleeding		34.1	26.8	19.5
Seizures during labor		57.0	54.2	*
Precipitous labor (less than 3 hours)		3.0	2.0	73.0
Prolonged labor (more than 20 hours)		36.6	35.7	44.4
Dysfunctional labor		68.8	67.4	14.0
Breech/Malpresentation		86.2	84.6	3.8
Cephalopelvic disproportion		96.5	96.3	1.8
Cord prolapse		67.6	65.7	12.8
Anesthetic complication ⁴		42.0	33.5	12.7
etal distress 4		59.4	57.3	18.0

Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.
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 or complication.
Kansas does not report this risk factor.

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, 2001

						Per	iod of gestati	on ²				
Birthweight ¹ and	All			Preterm				Term	1		Postterm	
race and Hispanic origin of mother	births	Total under 37 weeks	Under 28 weeks	28-31 weeks	32-35 weeks	36 weeks	Total 37-41 weeks	37-39 weeks	40 weeks	41 weeks	42 weeks and over	Not stated
						Nu	mber					
All races ³	4,025,933	476,250	29,085	48,548	222,640	175,977	3,235,785	2,002,809	824,306	408,670	274,067	39,831
Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,000-2,499 grams 3,000-3,499 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated	5,956 22,648 29,250 60,804 190,089 680,580 1,515,171 1,139,280 322,346 51,132 5,498 3,179	5,770 22,059 27,110 50,386 98,205 126,078 96,936 39,293 7,870 1,314 185 1,044	5,511 16,261 3,960 909 718 965 - - - 761	231 5,201 15,634 11,783 4,152 4,157 4,830 2,473 - - - - 87	27 568 6,964 32,693 63,537 57,056 39,726 17,399 3,838 610 89 133	1 29 552 5,001 29,798 63,900 52,380 19,421 4,032 704 96 63	15 176 1,523 8,879 84,648 513,882 1,300,596 996,084 280,745 43,845 43,845 4,613 779	12 1,114 7,357 69,917 388,299 839,590 542,346 131,848 19,464 2,287 463	41 267 986 10,019 87,313 316,473 299,921 93,362 14,385 1,329 210	3 23 142 536 4,712 38,270 144,533 153,817 55,535 9,996 997 106	2 21 210 808 5,194 34,040 103,460 93,537 30,644 5,452 617 82	169 392 407 731 2,042 6,580 14,179 10,366 3,087 521 83 1,274
						Pe	rcent					
Very low birthweight ⁴ Low birthweight ⁵	1.4 7.7	11.6 42.8	90.8 96.6	43.5 76.4	3.4 46.6	0.3 20.1	0.1 2.9	0.1 3.9	0.0 1.4	0.0 1.3	0.1 2.3	2.5 9.7
						Nu	mber					
White, total	3,177,626	345,106	17,290	32,608	162,421	132,787	2,581,838	1,583,913	665,350	332,575	218,957	31,725
Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,000-2,499 grams 3,000-3,499 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated	3,422 13,773 19,647 42,168 133,218 487,739 1,184,917 958,631 282,026 45,081 4,674 2,330	3,305 13,369 18,226 35,142 70,420 92,366 73,113 30,827 6,453 1,052 148 685	3,150 9,619 2,536 499 449 569 - - - 468	139 3,338 10,487 8,237 2,706 2,536 3,241 1,862	16 392 4,829 22,926 46,184 41,799 29,127 13,393 3,088 496 70 101	20 374 3,480 21,081 47,462 40,745 15,572 3,365 556 78 54	11 120 1,014 5,965 57,734 366,525 1,020,027 840,827 246,315 38,762 3,925 613	8 74 720 4,932 47,781 277,915 659,643 458,086 115,407 17,080 1,908 359	26 185 677 6,751 61,502 247,047 252,931 82,175 12,753 1,139 164	3 20 109 356 3,202 27,108 113,337 129,810 48,733 8,929 878 90	1 11 127 534 3,604 24,039 80,502 78,153 26,572 4,812 534 68	105 273 280 527 1,460 4,809 11,275 8,824 2,686 455 67 964
						Pe	rcent					
Very low birthweight ⁴ Low birthweight ⁵	1.2 6.7	10.1 40.8	91.0 96.6	42.9 76.5	3.2 45.8	0.3 18.8	0.0 2.5	0.1 3.4	0.0 1.1	0.0 1.1	0.1 2.0	2.1 8.6
						Nu	mber					
White, non-Hispanic	2,326,578	250,141	12,467	23,406	116,268	98,000	1,908,847	1,174,579	490,371	243,897	155,423	12,167
Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,500-2,999 grams 3,000-3,499 grams 3,500-3,999 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated	2,444 10,026 14,651 31,573 98,542 345,514 847,001 717,844 218,568 35,170 3,470 1,775	2,400 9,841 13,782 26,717 53,462 68,171 49,976 20,212 4,260 705 93 522	2,296 6,987 1,846 318 304 373 - - - 343	92 2,568 8,004 6,226 1,796 1,518 1,975 1,177 - - - 50	12 272 3,653 17,585 35,375 30,385 18,457 8,147 1,931 322 44 85	14 279 2,588 15,987 35,895 29,544 10,888 2,329 383 49 44	10 83 666 4,284 41,934 259,272 737,652 637,671 193,227 30,563 2,960 525	8 477 3,603 34,975 198,616 482,008 349,311 90,485 13,342 1,402 306	20 114 438 4,700 42,152 175,954 191,141 64,718 10,133 857 144	2 16 243 2,259 18,504 79,690 97,219 38,024 7,088 701 75	3 84 366 2,519 16,379 55,447 56,507 19,978 3,687 402 51	34 99 119 206 627 1,692 3,926 3,454 1,103 215 15 677
						Pe	rcent					
Very low birthweight ⁴ Low birthweight ⁵	1.2 6.8	10.4 42.5	91.8 96.9	45.7 80.0	3.4 49.0	0.3 19.3	0.0 2.5	0.0 3.3	0.0 1.1	0.0 1.1	0.1 1.9	2.2 9.4

Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 2001 -- Con.

						Peri	od of gestatio	on ²				
Birthweight ¹ 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
						Nur	nber					
Black, total	606,156	105,325	10,623	13,544	48,061	33,097	456,535	294,113	109,165	53,257	39,786	4,510
Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,500-2,999 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated	2,317 7,893 8,223 15,394 44,596 142,270 231,012 122,521 26,695 544 696	2,257 7,752 7,644 12,647 22,169 26,480 18,413 6,388 1,028 193 31 323	2,166 5,964 1,280 363 240 343 - - - 267	81 1,637 4,414 3,017 1,234 1,357 1,293 491	9 145 1,801 8,041 13,904 12,180 8,303 3,003 542 85 18 30	1 6 149 1,226 6,791 12,600 8,817 2,894 486 108 13 6	4 415 2,358 20,756 107,062 194,442 104,752 22,752 22,752 3,376 449 128	4 27 322 1,957 16,985 80,111 124,686 57,105 10,939 1,638 256 83	11 66 258 2,545 18,706 47,707 31,331 7,305 1,079 123 34	3 27 143 1,226 8,245 22,049 16,316 4,508 659 70 11	1 10 72 241 1,292 7,700 16,653 10,641 2,715 397 53 11	55 90 92 148 379 1,028 1,504 740 200 29 11 234
						Per	rcent					
Very low birthweight ⁴ Low birthweight ⁵	3.0 13.0	16.8 50.0	90.9 96.7	45.3 76.8	4.1 49.8	0.5 24.7	0.1 5.2	0.1 6.6	0.1 2.6	0.1 2.6	0.2 4.1	5.5 17.9
						Nur	nber					
Black, non-Hispanic	589,917	103,237	10,448	13,271	47,147	32,371	443,805	286,476	105,748	51,581	38,586	4,289
Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,500-2,999 grams 3,000-3,499 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated	2,271 7,775 8,075 15,104 43,772 139,276 224,616 118,393 25,612 3,843 522 658	2,214 7,639 7,512 21,2412 21,771 25,985 17,967 6,208 989 192 30 318	2,124 5,870 1,261 357 236 336 - - - - 264	80 1,621 4,327 2,941 1,211 1,326 1,263 482 - - - 20	9 142 1,776 7,911 13,657 11,976 8,109 2,918 519 85 17 28	1 6 148 1,203 6,667 12,347 8,595 2,808 470 107 13 6	4 403 2,312 20,376 104,782 189,047 101,201 21,837 3,249 431 122	4 27 316 1,922 16,670 78,468 121,402 55,250 10,514 1,580 243 80	11 61 254 2,499 18,268 46,243 30,226 7,001 1,034 119 32	3 26 136 1,207 8,046 21,402 15,725 4,322 635 69 10	1 10 237 1,266 7,523 16,173 10,269 2,598 378 378 50 11	52 85 90 143 359 986 1,429 715 188 24 24 11 207
						Per	rcent					
Very low birthweight ⁴ Low birthweight ⁵	3.1 13.1	16.9 50.1	90.9 96.7	45.5 76.8	4.1 49.9	0.5 24.8	0.1 5.2	0.1 6.6	0.1 2.7	0.1 2.7	0.2 4.1	5.6 17.9
						Nur	mber					
Hispanic ⁶	851,851	95,373	4,787	9,295	46,341	34,950	674,019	410,111	175,245	88,663	63,839	18,620
Less than 500 grams 500-999 grams 1,000-1,499 grams 2,000-2,499 grams 2,000-2,499 grams 3,000-3,499 grams 3,000-3,499 grams 4,000-4,499 grams 4,500-4,999 grams 5,000 grams or more Not stated	925 3,748 5,006 10,621 143,068 338,951 240,284 63,091 9,792 1,197 376	859 3,534 4,450 8,439 16,974 24,300 23,334 10,697 2,222 348 54 162		49 767 2,497 2,032 918 1,044 1,284 692 - - - 12	3 120 1,168 5,334 10,822 11,452 10,762 5,285 1,178 174 26 17	6 94 889 5,091 11,607 11,288 4,720 1,044 174 28 9	37 356 1,706 15,934 108,023 283,310 202,748 52,771 8,088 959 87	27 247 1,348 12,921 79,801 178,133 108,572 24,799 3,706 503 54	6 76 241 2,062 19,518 71,443 61,648 17,363 2,589 280 19	4 33 117 951 8,704 33,734 32,528 10,609 1,793 176 14	1 8 44 173 1,093 7,756 25,228 21,674 6,585 1,129 132 132 16	65 169 156 303 791 2,989 7,079 5,165 1,513 227 52 111
						Per	rcent					
Very low birthweight ⁴ Low birthweight ⁵	1.1 6.5	9.3 36.0		35.7 67.5	2.8 37.7	0.3 17.4	0.1 2.7	0.1 3.5	0.0 1.4	0.0 1.2	0.1 2.1	2.1 8.0

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

Table 44. Percent of live births very preterm and preterm and percent of live births of very low birthweight and low birthweight, by race
and Hispanic origin of mother: United States, 1981-2001

			Very pre	eterm ¹					Prete	erm ²		
Year		W	hite	BI	ack	_		W	hite	BI	lack	
	All races ³	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴	All races ³	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴
2001	1.95	1.59	1.55	4.02	4.05	1.69	11.9	11.0	10.8	17.5	17.6	11.4
0000	1.93	1.59	1.55	4.02	4.05	1.69	11.9	10.6	10.8	17.3	17.6	11.4
1000	1.95	1.55	1.51	4.04	4.09	1.68	11.8	10.0	10.4	17.5	17.4	11.4
1000	1.96	1.57	1.54	4.13	4.10	1.00	11.6	10.7	10.5	17.5	17.6	11.4
	1.90	1.57	1.49	4.11	4.15	1.68	11.4	10.5	9.9	17.5	17.6	11.4
1000	1.94	1.53	1.49	4.17	4.19	1.66	11.4	9.8		17.5	17.6	10.9
1005		1.46	1.43	4.13	4.17		11.0	9.8 9.7	9.5 9.4	17.4	17.5	
1995	1.89	1.40		4.25		1.66 1.67		9.7 9.6	9.4 9.3	17.7	17.8	10.9 10.9
1000	1.91 1.93	1.45	1.39 1.39	4.32	4.36 4.45	1.67	11.0 11.0	9.6 9.5	9.3 9.1	18.5	18.6	11.0
10007		1.45		4.41	4.45 4.50		10.7	9.5 9.1	9.1 8.7	18.4	18.5	10.7
10017	1.91		1.33			1.64 1.65	10.7					11.0
10008	1.94 1.92	1.41	1.35	4.62 4.61	4.65	1.69	10.6	9.1 8.9	8.7	18.9 18.8	19.0	11.0
1000 9		1.39	1.33		4.63	1.69		8.8	8.5 8.4	18.9	18.9	11.0
1000	1.95	1.41 1.42	1.34	4.64	4.68		10.6 10.2		•••	18.7	19.0	
1007	1.96			4.72 4.61			10.2	8.5		18.4		
1000	1.96	1.44						8.5				
1005	1.90	1.41		4.47			10.0	8.4		18.0		
	1.88	1.42		4.37			9.8	8.2		17.8		
1984	1.83	1.38		4.22			9.4	7.9		17.1		
1983	1.86	1.40		4.34			9.6	8.0		17.7		
1982	1.84	1.40		4.22			9.5	8.0		17.4		
1981	1.81	1.37		4.13			9.4	7.9		17.3		

			Very low bir	thweight ⁵					Low birth	nweight ⁶		
		W	hite	Bl	ack	_		W	hite	BI	ack	
	All races ³	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴	All races ³	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ⁴
2001	1.44	1.16	1.17	3.04	3.08	1.14	7.7	6.7	6.8	13.0	13.1	6.5
2000	1.43	1.14	1.14	3.07	3.10	1.14	7.6	6.5	6.6	13.0	13.1	6.4
1999	1.45	1.15	1.15	3.14	3.18	1.14	7.6	6.6	6.6	13.1	13.2	6.4
1998	1.45	1.15	1.15	3.08	3.11	1.15	7.6	6.5	6.6	13.0	13.2	6.4
1997	1.42	1.13	1.12	3.04	3.05	1.13	7.5	6.5	6.5	13.0	13.1	6.4
1996	1.37	1.09	1.08	2.99	3.02	1.12	7.4	6.3	6.4	13.0	13.1	6.3
1995	1.35	1.06	1.04	2.97	2.98	1.11	7.3	6.2	6.2	13.1	13.2	6.3
1994	1.33	1.02	1.01	2.96	2.99	1.08	7.3	6.1	6.1	13.2	13.3	6.2
1993	1.33	1.01	1.00	2.96	2.99	1.06	7.2	6.0	5.9	13.3	13.4	6.2
1992 ⁷	1.29	0.96	0.94	2.96	2.97	1.04	7.1	5.8	5.7	13.3	13.4	6.1
1991 ⁷	1.29	0.96	0.94	2.96	2.97	1.02	7.1	5.8	5.7	13.6	13.6	6.1
1990 ⁸	1.27	0.95	0.93	2.92	2.93	1.03	7.0	5.7	5.6	13.3	13.3	6.1
1989 ⁹	1.28	0.95	0.93	2.95	2.97	1.05	7.0	5.7	5.6	13.5	13.6	6.2
1988	1.24	0.93		2.86			6.9	5.7		13.3		
1987	1.24	0.94		2.79			6.9	5.7		13.0		
1986	1.21	0.93		2.73			6.8	5.7		12.8		
1985	1.21	0.93		2.71			6.8	5.7		12.6		
1984	1.19	0.93		2.60			6.7	5.6		12.6		
1983	1.19	0.92		2.60			6.8	5.7		12.8		
1982	1.18	0.91		2.56			6.8	5.6		12.6		
1981	1.16	0.91		2.52			6.8	5.7		12.7		

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

	Low birthw	eight 1							Birthweight 2						
Age and race and Hispanic origin of mother	Number	Percent	Total	Less than 500 grams	500- 999 grams	1,000- 1,499 grams	1,500- 1,999 grams	2,000- 2,499 grams	2,500- 2,999 grams	3,000- 3,499 grams	3,500- 3,999 grams	4,000- 4,499 grams	4,500- 4,999 grams	5,000- grams or more	Not stated
All races ³															
All ages	308,747	7.7	4,025,933	5,956	22,648	29,250	60,804	190,089	680,580	1,515,171	1,139,280	322,346	51,132	5,498	3,179
Jnder 15 years	994	12.8	7,781	23	107	106	194	564	2,001	3,135	1,425	197	13	1	15
5-19 years	42,006	9.4	445,944	820	3,266	3,797	7,851	26,272	97,504	180,759	101,564	21,122	2,427	205	357
15 years	2,265	11.2	20,150	39	199	218	455	1,354	4,810	8,223	4,039	712	79	6	16
6 years	4,770	10.5	45,367	94	390	461	872	2,953	10,502	18,526	9,595	1,745	181	17	31
7 years	7,799	9.8	79,807	154	587	711	1,481	4,866	18,064	32,401	17,605	3,461	385	31	61
8 years	11,968	9.5	126,361	240	918	1,043	2,275	7,492	27,557	51,233	28,859	5,932	662	49	101
9 years	15,204	8.7	174,259	293	1,172	1,364	2,768	9,607	36,571	70,376	41,466	9,272	1,120	102	148
-24 years	79,148	7.8	1,021,627	1,551	5,599	7,012	14,797	50,189	192,780	403,068	269,204	66,597	9,192	893	745 815
-29 years	71,837	6.8	1,058,265	1,470	5,249	6,821	13,785	44,512	167,273	399,296	313,419	89,842	14,229	1,554	683
-34 years	66,297	7.0	942,697	1,237 707	4,957 2,735	6,436	13,765	39,902	137,050	339,220	291,228	91,064	15,498	1,657	450
-39 years	38,053	8.4	451,723 92,813			3,968 975	8,143	22,500	67,798	156,812	135,228	44,402	8,013	967 211	450
-44 years	9,373 1,039	10.1 20.5	5,083	139 9	681 54	975 135	1,998 271	5,580 570	15,194 980	31,417 1,464	26,064 1,148	8,749 373	1,699 61	10	106
White, total	1,000	2010	0,000	0	01			0.0		.,	.,	0.0	0.		Ū
ll ages	212,228	6.7	3,177,626	3,422	13,773	19,647	42,168	133,218	487,739	1,184,917	958,631	282,026	45,081	4,674	2,330
nder 15 years	428	10.5	4,095	11	51	45	87	234	965	1,660	883	142	9	-	8
5-19 years	25,560	8.0	318,563	447	1,828	2.224	4,731	16,330	63,291	130,427	79,646	17,295	1,979	150	215
5 years	1,221	9.7	12,584	18	93	123	248	739	2,708	5,242	2,829	511	58	3	12
6 years	2,762	9.1	30,510	49	225	260	489	1,739	6,358	12,652	7,181	1,388	145	8	16
7 years	4,711	8.4	56,098	87	312	411	891	3,010	11,630	23,053	13,568	2,767	311	19	39
8 years	7,358	8.1	91,284	132	528	621	1,382	4,695	18,135	37,366	22,893	4,879	553	36	64
9 years	9,508	7.4	128,087	161	670	809	1,721	6,147	24,460	52,114	33,175	7,750	912	84	84
-24 years	51,180	6.6	779,529	795	3,185	4,332	9,509	33,359	134,596	307,664	220,205	56,725	7,905	755	499
-29 years	50,543	5.9	850,343	857	3,212	4,768	9,820	31,886	122,414	317,321	266,557	78,976	12,579	1,335	618
-34 years	48,973	6.3	777,294	780	3,191	4,681	10,373	29,948	103,427	275,392	252,074	81,522	13,942	1,435	529
-39 years	27.920	7.6	368,816	436	1.803	2.828	5,966	16.887	50,950	126,248	116,068	39.343	7,107	821	359
-44 years	6,766	9.1	74,856	91	454	664	1,455	4,102	11,331	25,051	22,235	7,700	1,508	171	94
54 years	858	20.8	4,130	5	49	105	227	472	765	1,154	963	323	52	7	8
White, non-Hispanic															
ll ages	157,236	6.8	2,326,578	2,444	10,026	14,651	31,573	98,542	345,514	847,001	717,844	218,568	35,170	3,470	1,775
nder 15 years	179	11.3	1,581	5	24	19	38	93	334	597	396	68	4	-	3
5-19 years	15,903	8.4	190,161	287	1,205	1,416	2,975	10,020	36,443	75,342	49,343	11,552	1,349	97	132
5 years	568	9.9	5,765	13	44	52	123	336	1,160	2,283	1,422	287	36	2	7
6 years	1,490	9.6	15,538	24	128	155	259	924	3,061	6,201	3,843	846	82	7	8
7 years	2,809	8.9	31,409	56	197	248	533	1,775	6,269	12,374	7,970	1,758	200	10	19
8 years	4,660	8.4	55,409	88	357	397	899	2,919	10,800	21,896	14,283	3,307	394	24	45
9 years	6,376	7.8	82,040	106	479	564	1,161	4,066	15,153	32,588	21,825	5,354	637	54	53
-24 years	35,374	6.8	523,027	553	2,222	3,006	6,528	23,065	88,603	201,510	150,353	40,557	5,744	525	361
29 years	37,738	6.1	622,361	623	2,342	3,574	7,380	23,819	88,029	227,970	197,780	59,827	9,578	963	476
-34 years	39,362	6.3	625,435	581	2,474	3,742	8,417	24,148	81,648	218,975	205,351	67,182	11,393	1,101	423
~~	22,534	7.5	300,007	333	1,358	2,291	4,864	13,688	40,748	101,536	95,641	32,764	5,848	635	301
5-39 years 0-44 years 5-54 years	5,419	9.0	60,614 3,392	57 5	360	518 85	1,176	3,308 401	9,070 639	20,146 925	18,194 786	6,353 265	1,218 36	142 7	72 7

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, 2001

See footnotes at end of table.

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	Low birthw	reight ¹							Birthweight 2						
Age and race and Hispanic origin of mother	Number	Percent	Total	Less than 500 grams	500- 999 grams	1,000- 1,499 grams	1,500- 1,999 grams	2,000- 2,499 grams	2,500- 2,999 grams	3,000- 3,499 grams	3,500- 3,999 grams	4,000- 4,499 grams	4,500- 4,999 grams	5,000- grams or more	Not stated
Black, total															
All ages	78,423	13.0	606,156	2,317	7,893	8,223	15,394	44,596	142,270	231,012	122,521	26,695	3,995	544	696
Under 15 years 15-19 years 15 years 16 years 17 years 18 years 20-24 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years	541 14,984 974 1,841 2,849 4,214 5,106 24,694 16,436 12,272 7,503 1,881	15.7 13.5 14.2 14.0 13.7 13.8 13.0 12.4 12.0 13.0 15.3 17.1	3,455 110,843 6,881 13,183 20,778 30,516 39,485 199,221 137,400 94,660 49,065 11,001	12 351 21 43 65 102 120 718 562 395 239 36	54 1,336 97 147 261 360 471 2,227 1,820 1,479 797 176	58 1,455 91 185 290 393 496 2,448 1,735 1,361 906 241	102 2,842 195 348 533 823 943 4,738 3,119 2,490 1,658 413	315 9,000 570 1,118 1,700 2,536 3,076 14,563 9,200 6,547 3,903 1,015	974 30,536 1,963 3,749 5,798 8,370 10,656 49,110 29,589 19,326 10,214 2,410	1,382 43,648 2,699 5,250 8,108 12,018 15,573 77,932 52,558 34,619 16,988 3,721	499 18,211 1,066 2,006 3,404 4,974 6,761 38,774 30,285 21,679 10,739 2,238	48 2,961 156 288 535 821 1,161 7,460 7,145 5,555 2,906 599	4 336 17 29 56 79 155 940 1,086 954 549 121	1 41 2 8 8 8 15 100 144 141 141 91 24	6 126 4 12 20 32 58 211 157 114 75 7
45-54 years	112	21.9	511	4	4	19	32	53	111	164	96	21	5	2	-
Black, non-Hispanic															
All ages	76,997	13.1	589,917	2,271	7,775	8,075	15,104	43,772	139,276	224,616	118,393	25,612	3,843	522	658
Under 15 years	535 14,712 961 1,801 2,795 4,141 5,014 24,313 16,109 12,016 7,348 1,855 109	15.8 13.6 14.3 14.0 13.8 13.9 13.0 12.5 12.1 13.1 15.5 17.4 22.4	3,401 108,252 6,735 12,879 20,293 29,794 38,551 194,391 133,491 91,710 47,494 10,691 487	12 346 20 43 64 101 118 701 548 390 234 36 4	54 1,312 95 142 258 351 466 2,200 1,794 1,457 779 175 4	58 1,425 89 182 283 385 486 2,410 1,704 1,335 888 237 18	100 2,801 194 346 524 810 927 4,664 3,053 2,427 1,618 409 32	311 8,828 563 1,088 1,666 2,494 3,017 14,338 9,010 6,407 3,829 998 51	965 29,907 1,927 3,667 5,675 8,195 10,443 48,226 28,952 18,829 9,950 2,344 103	1,358 42,591 2,642 5,131 7,904 11,725 15,189 75,943 51,031 33,522 16,413 3,600 158	486 17,707 1,037 1,955 3,324 4,825 6,566 37,549 29,212 20,860 10,316 2,173 90	46 2,850 147 279 512 794 1,118 7,156 6,853 5,335 2,778 574 20	4 326 15 28 56 76 151 903 1,048 912 530 115 5	1 39 2 7 8 7 15 96 140 132 89 23 2	6 120 4 11 19 31 55 205 146 104 70 7
All ages	55,092	6.5	851,851	925	3,748	5,006	10,621	34,792	143,068	338,951	240,284	63,091	9,792	1,197	376
Under 15 years	252 9,821 659 1,294 1,930 2,741 3,197 15,933 12,805 9,512 5,337 1,317 115	9.9 7.6 9.5 8.5 7.7 7.6 6.9 6.2 5.6 6.3 7.9 9.4 16.7	2,555 130,007 6,936 15,165 25,023 36,298 46,585 258,431 227,910 150,352 67,952 13,956 688	6 154 5 24 29 42 54 243 225 182 89 26	27 633 51 99 114 176 193 971 866 709 446 89 7	26 817 72 102 164 229 250 1,340 1,191 930 546 140 16	51 1,788 125 232 370 487 574 3,002 2,435 1,941 1,097 276 31	142 6,429 406 837 1,253 1,807 2,126 10,377 8,088 5,750 3,159 786 61	641 27,321 1,576 3,359 5,466 7,470 9,450 46,415 34,469 21,721 10,161 2,215 125	1,080 55,739 3,010 6,516 10,822 15,628 19,763 107,086 89,477 56,028 24,461 4,862 218	498 30,570 1,435 3,378 5,632 8,690 11,435 70,238 68,649 46,125 20,119 3,922 163	75 5,802 227 549 1,035 1,580 2,411 16,278 19,063 14,067 6,436 1,317 53	5 632 24 62 110 161 275 2,151 2,974 2,505 1,229 282 282 14	54 1 2 9 13 29 226 371 333 183 30	4 68 4 5 19 15 25 104 102 61 26 11

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, 2001--Con.

Quantity zero.
Less than 2,500 grams (5 lb 8 oz).
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.
Includes all persons of Hispanic origin of any race.

Table 46. Number and percent of births of low birthweight by race and Hispanic origin of mother: United States, each State and territory, 2001

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

			Num	ber					Per	cent		
		Wh	ite	Bla	ack			Wh	nite	Bla	ack	_
State	All races ¹	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²	All races ¹	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²
United States ³	308,747	212,228	157,236	78,423	76,997	55,092	7.7	6.7	6.8	13.0	13.1	6.5
Alabama	5,812	3,070	2,914	2,687	2,687	155	9.6	7.6	7.6	14.0	14.0	6.9
Alaska	566	333	277	48	42	41	5.7	5.2	5.0	10.9	10.8	6.3
Arizona	5,957	5,010	2,603	378	368	2,399	7.0	6.7	6.7	13.7	14.4	6.6
Arkansas	3,250	2,148	1,988	1,044	1,044	157	8.8	7.5	7.6	14.1	14.1	5.9
California	33,228	24,661	9,838	3,907	3,795	14,784	6.3	5.8	5.9	11.6	11.7	5.7
Colorado	5,720	5,007	3,391	415	400	1,657	8.5	8.2	8.1	14.0	14.1	8.4
Connecticut	3,143	2,370	1,786	621	603	565	7.4	6.7	6.3	12.1	12.2	8.2
Delaware	996	589	519	372	371	70	9.3	7.7	7.9	13.7	13.8	6.5
District of Columbia	924	163	106	743	737	58	12.1	6.3	6.3 7.0	15.3	15.3	6.5 6.5
Florida	16,776	10,386	7,292	5,878	5,753	3,222	8.2	6.8	7.0	12.5	12.5	0.0
Georgia	11,750	5,771	4,851	5,624	5,555	889	8.8	6.7	7.0	12.9	12.9	5.7
Hawaii	1,385	247	210	60	57	171	8.1	6.5	6.7	11.4	11.5	7.6
Idaho	1,326	1,275	1,063	9 4 559	4 5 2 5	187	6.4	6.4	6.3	107	100	6.8
Illinois	14,731	9,463	6,795	4,558	4,535	2,689	8.0	6.6	6.7	13.7	13.8	6.6
Indiana	6,569 2,409	5,225 2,160	4,825 2,023	1,242 173	1,237 168	389 139	7.6 6.4	7.0 6.1	7.0 6.1	12.9 13.7	13.0 13.6	6.6 6.2
lowa	2,409 2,709	2,160	2,023	345	340	292	6.4 7.0	6.5	6.6	13.7	13.6	6.0
Kansas Kentucky	4,539	3,828	3,713	660	656	115	8.3	7.8	7.8	13.4	12.4	7.7
Louisiana	6,825	2,831	2,731	3,883	3,875	103	10.4	7.7	7.0	14.4	14.4	6.6
Maine	830	800	793	14	12	7	6.0	6.0	6.1	*	*	*
Mandand	6,580	0 1 4 4	0 770	0 104	0 117	365	9.0	7.0	7.0	12.9	10.0	6.9
Maryland Massachusetts	5,773	3,144 4,574	2,779 3,863	3,134 832	3,117 710	778	9.0 7.2	6.8	7.0 6.5	12.9	13.0 10.9	8.3
Michigan	10,642	6,971	6,406	3,317	3,300	453	8.0	6.6	6.7	14.1	14.1	6.2
Minnesota	4,254	3,426	3,116	467	460	280	6.3	5.9	5.9	9.8	9.8	6.2
Mississippi	4,204	1,769	1,720	2,683	2,681	50	10.7	7.8	7.8	14.3	14.3	7.0
Missouri	5,741	4,189	4,020	1,406	1,402	169	7.6	6.7	6.8	12.6	12.7	5.7
Montana	758	655	613	2	2	30	6.9	6.9	7.0	*	*	8.0
Nebraska	1,649	1.409	1,205	170	169	183	6.6	6.3	6.3	12.4	12.5	6.2
Nevada	2,380	1,852	1,148	326	307	691	7.6	7.0	7.5	13.0	12.7	6.4
New Hampshire	957	898	785	29	22	30	6.5	6.4	6.1	13.9	13.8	5.9
New Jersey	9,170	5,787	4,231	2,595	2,442	1,647	7.9	6.8	6.7	12.6	13.1	7.0
New Mexico	2,145	1,799	682	67	66	1,124	7.9	7.9	7.8	13.1	13.6	8.0
New York	19,481	12,151	8,331	5,892	5,457	4,050	7.7	6.7	6.4	11.3	11.7	7.4
North Carolina	10,572	6,258	5,371	3,906	3,894	890	8.9	7.3	7.6	13.8	13.8	6.1
North Dakota	472	405	380	5	5	11	6.2	6.1	6.0	*	*	*
Ohio	12,094	8,811	8,480	3,069	3,049	319	8.0	7.0	7.0	13.4	13.4	7.0
Oklahoma	3,908	2,846	2,552	628	625	292	7.8	7.3	7.4	13.6	13.7	5.9
Oregon	2,512	2,217	1,782	95	91	440	5.5	5.4	5.3	10.1	10.0	5.6
Pennsylvania Rhode Island	11,346 931	8,238 738	7,483 501	2,771 131	2,693 118	721 167	7.9 7.3	6.9 6.7	6.8 6.5	13.7 11.8	13.7 11.9	8.8 7.6
	E 0.40	0.010	0.407	0.047	0.000	100	0.0	7.0	7 4	44.0		
South Carolina	5,340	2,613	2,427	2,647	2,638	196	9.6	7.3	7.4	14.0	14.0	6.6
South Dakota	671 7 212	535	514	6 2 252	6 2 240	21	6.4	6.3	6.2	100	10.0	8.2
Tennessee Texas	7,212 27,603	4,833 21,377	4,584 9,535	2,252 5,242	2,249 5,195	253 11,820	9.2 7.6	8.0 6.9	8.1 6.9	13.6 12.9	13.6 12.9	6.5 6.9
1.10.1	0 077	0.000	0 100			405	0.4	0.4	0.0	10.0		
Vermont	3,077 377	2,902	2,408 353	37	36	485	6.4 5.9	6.4 5.9	6.2 5.9	10.8	11.1	7.4
Virginia	7,761	4,587	4,066	2,775	2,753	527	7.9	6.5	6.6	12.5	12.5	5.8
Washington	4,599	3,711	3,036	324	318	636	5.8	5.5	5.6	9.8	10.0	5.2
West Virginia	1,730	1,637	1,625	81	81	4	8.5	8.4	8.4	11.5	11.6	
Wisconsin	4,552	3,485	3,177	861	857	318	6.6	5.9	5.8	13.1	13.2	6.2
Wyoming	510	458	406	11	10	52	8.3	8.0	7.9	*	*	9.1
Puerto Rico	6,264	5,710		554			11.2	11.1		12.1		
Virgin Islands	161	33	4	117	102	36	9.7	9.0	*	9.5	9.4	9.4
Guam	287	9	8	2	2	3	8.1	*	*	*	*	1
American Samoa	65	-		-			3.9	*		*		
Northern Marianas	120	1		-			8.3	*		*		

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

Table 47. Number and percent of births of very low birthweight by race and Hispanic origin of mother: United States, each State and territory, 2001

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

			Numb	ber					Per	cent		
		Wł	nite	Bla	ick	_		Wł	nite	Bla	ack	_
State	All races ¹	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²	All races ¹	Total	Non- Hispanic	Total	Non- Hispanic	Hispanic ²
United States ³	57,854	36,842	27,121	18,433	18,121	9,679	1.4	1.2	1.2	3.0	3.1	1.1
Alabama	1,174	524	497	642	642	27	1.9	1.3	1.3	3.3	3.4	1.2
Alaska	126	72	58	12	12		1.3	1.1	1.0	*	*	*
Arizona	909	763	393	72	70	365	1.1	1.0	1.0	2.6	2.7	1.0
Arkansas	598	348	312	245	245	_35	1.6	1.2	1.2	3.3	3.3	1.3
California	6,014	4,441	1,691	925	902		1.1	1.0	1.0	2.7	2.8	1.0
Colorado	840	730	470	75	74	263	1.3	1.2	1.1	2.5	2.6	1.3
Connecticut	640	437	320	184	179	114	1.5	1.2	1.1	3.6	3.6	1.6
Delaware	185	83	70	98	97	14	1.7	1.1	1.1	3.6	3.6	*
District of Columbia	206	26 1,790	14	176 1,399	174	13 534	2.7 1.6	1.0 1.2	1.2	3.6	3.6 3.0	1.1
Florida	3,269	1,790	1,273	1,599	1,372	554	1.0	1.2	1.2	3.0	3.0	1.1
Georgia	2,296 206	978 36	828 33	1,266	1,252		1.7 1.2	1.1	1.2	2.9	2.9	0.9 0.9
Hawaii	193	187	146	12 3	12 3	37	0.9	0.9 0.9	1.1 0.9	*	*	1.3
Idaho Illinois	2,833	1,716	1,269	1,020	1,015	453	1.5	1.2	1.2	3.1	3.1	1.3
Indiana	1,212	919	835	277	277	84	1.4	1.2	1.2	2.9	2.9	1.4
lowa	431	387	357	29	28	30	1.1	1.1	1.1	2.3	2.3	1.3
Kansas	488	393	328	74	73	64	1.3	1.1	1.1	2.7	2.7	1.3
Kentucky	809	670	653	129	128	16	1.5	1.4	1.4	2.6	2.6	*
Louisiana	1,489	497	481	977	977	16	2.3	1.3	1.4	3.6	3.6	*
Vaine	165	158	157	7	7	1	1.2	1.2	1.2	*	*	*
Maryland	1,409	597	516	770	769	76	1.9	1.3	1.3	3.2	3.2	1.4
Massachusetts	1,088	811	668	222	191	157	1.3	1.2	1.1	2.7	2.9	1.7
Vichigan	2,143	1,320	1,210	781	779	86	1.6	1.3	1.3	3.3	3.3	1.2
Minnesota	822	634	562	123	119	65	1.2	1.1	1.1	2.6	2.5	1.4
Mississippi	874	299	291	566	565	7	2.1	1.3	1.3	3.0	3.0	*
Vissouri	1,046	712	674	317	317	39	1.4	1.1	1.1	2.9	2.9	1.3
Nontana	126	110	105	-	-	7	1.1	1.2	1.2	*	*	*
Nebraska	316	262	226	43	43	31	1.3	1.2	1.2	3.1	3.2	1.1
Nevada New Hampshire	332 159	256 152	157 137	53 4	49 2	95 4	1.1 1.1	1.0 1.1	1.0 1.1	2.1	2.0	0.9
-	155	152	157	4	2		1.1	1.1				
New Jersey New Mexico	1,865 297	1,077 249	745 94	686 13	654 12	336 156	1.6 1.1	1.3 1.1	1.2 1.1	3.3	3.5	1.4 1.1
New York	3,740	2,152	1,385	1,411	1,309	819	1.5	1.2	1.1	2.7	2.8	1.5
North Carolina	2,272	1,204	1,048	985	983	155	1.9	1.4	1.5	3.5	3.5	1.1
North Dakota	86	73	70	2	2		1.1	1.1	1.1	*	*	*
Ohio	2,302	1,551	1,501	728	722	45	1.5	1.2	1.2	3.2	3.2	1.0
Oklahoma	664	450	402	132	132	44	1.3	1.1	1.2	2.9	2.9	0.9
Oregon	432	379	312	21	19	67	1.0	0.9	0.9	2.2	*	0.8
Pennsylvania	2,146	1,466	1,309	639	619	148	1.5	1.2	1.2	3.2	3.2	1.8
Rhode Island	189	148	96	25	25	35	1.5	1.4	1.3	2.3	2.5	1.6
South Carolina	1,046	435	415	602	602		1.9	1.2	1.3	3.2	3.2	0.7
South Dakota	114	95	89	-	-	6	1.1	1.1	1.1	*	*	*
Tennessee	1,327	805	774	511	511	31	1.7	1.3	1.4	3.1	3.1	0.8
Texas	4,804	3,491	1,563	1,174	1,161	1,931	1.3	1.1	1.1	2.9	2.9	1.1
Utah	462	442	364	4	4	79	1.0	1.0	0.9	*	*	1.2
Vermont	1 590	72	67 761		-	-	1.1	1.2	1.1			
Virginia Washington	1,589 818	853 654	761 529	684 60	680 59		1.6 1.0	1.2 1.0	1.2 1.0	3.1 1.8	3.1 1.8	1.0 1.0
West Virginia	291	271	269	19	19		1.0	1.0	1.0	1.0	1.0	1.0
Wisconsin	870	604	542	234	233		1.3	1.0	1.0	3.6	3.6	1.2
Wyoming	70	63	55	204	200		1.1	1.1	1.1	*	*	*
Puerto Rico	739	662		77			1.3	1.3		1.7		
Virgin Islands	29	6	-	21	17	7	1.7	*	*	1.7	*	*
Guam	33	-	-	-	-	1	0.9	*	*	*	*	*
American Samoa	9	-		-			*	*		*		
Northern Marianas	7	-		-			*	*		*		

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

Table 48. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 2001

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

	A 11	Abnormal			A	ge of moth	er			
Abnormal condition and race of mother	All births ¹	condition reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	- Not stated ²
All races ³										
Anemia	4,025,933	4,043	1.0	1.0	1.0	1.0	1.0	1.2	1.2	38,327
Birth injury ⁴	3,635,703	10,119	2.8	3.0	2.8	2.9	2.8	2.6	2.4	42,079
Fetal alcohol syndrome ⁵	3,956,861	136	0.0	*	0.0	0.0	0.0	*	*	39,443
Hyaline membrane disease/RDS	4,025,933	23,764	6.0	6.6	6.0	5.8	5.6	6.2	6.8	38,327
Meconium aspiration syndrome	4,025,933	6,333	1.6	1.8	1.6	1.5	1.5	1.6	1.9	38,327
Assisted ventilation less than 30 minutes 6	3,906,315	84,877	22.0	22.4	21.0	21.7	22.4	23.2	24.4	46,729
Assisted ventilation 30 minutes or longer ⁶	3,906,315	35,937	9.3	10.7	9.3	8.7	8.8	10.1	11.7	46,729
Seizures	4,025,933	1,940	0.5	0.6	0.5	0.5	0.4	0.5	0.5	38,327
White										
Anemia	3,177,626	2,976	0.9	1.0	0.9	0.9	1.0	1.1	1.2	30.653
Birth injury ⁴	2,843,151	8,163	2.9	3.1	2.9	3.0	2.9	2.6	2.5	33,933
Fetal alcohol syndrome ⁵	3,118,243	84	0.0	*	*	0.0	0.0	*	*	31,707
Hyaline membrane disease/RDS	3,177,626	19,156	6.1	6.8	6.1	6.0	5.8	6.2	6.9	30,653
Meconium aspiration syndrome	3,177,626	4,549	1.4	1.6	1.5	1.4	1.3	1.4	1.6	30,653
Assisted ventilation less than 30 minutes ⁶	3,110,079	68,273	22.2	22.5	21.0	22.0	22.7	23.5	25.0	37,350
Assisted ventilation 30 minutes or longer ⁶	3,110,079	27,709	9.0	10.3	8.8	8.4	8.7	9.8	11.7	37,350
Seizures	3,177,626	1,547	0.5	0.6	0.5	0.5	0.4	0.5	0.6	30,653
Black										
Anemia	606.156	818	1.4	1.2	1.2	1.4	1.4	2.0	*	4.315
Birth injury ⁴	564,033	1,004	1.8	2.1	1.7	1.8	1.7	2.0	*	4,659
Fetal alcohol syndrome ⁵	599,589	39	0.1	*	*	*	*	*	*	4,353
Hyaline membrane disease/RDS	606,156	3,702	6.2	6.3	6.0	5.9	5.8	7.6	6.7	4,315
Meconium aspiration syndrome	606,156	1,427	2.4	2.1	2.1	2.5	2.5	3.1	3.9	4,315
Assisted ventilation less than 30 minutes ⁶	568,635	12,057	21.4	21.4	20.7	20.8	23.0	23.2	21.4	5,272
Assisted ventilation 30 minutes or longer ⁶	568,635	6,633	11.8	11.7	11.2	11.4	12.0	14.2	14.9	5,272
Seizures	606,156	299	0.5	0.6	0.5	0.5	0.4	0.4	*	4,315

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
0.0 Quantity more than zero but less than 0.05.
1 Total number of births to residents of areas reporting specified abnormal condition.
2 No response reported for the abnormal conditions item.
3 Includes races other than white and black.
4 Nebraska and Texas do not report this condition.
5 Wisconsin does not report this condition.
6 New York City does not report this condition.

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

Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 2001

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

	A 11	Congenital			A	ge of moth	er			NL
Congenital anomaly and race of mother	All births ¹	anomaly reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	- Not stated ²
All races ³										
Anencephalus	3.998.805	392	9.9	9.6	10.6	9.7	9.8	8.8	*	36.650
Spina bifida/Meningocele	3.998.805	790	19.9	24.2	23.0	19.4	18.9	14.2	*	36.650
Hydrocephalus	3,998,805	892	22.5	28.7	25.8	21.9	18.5	19.6	*	36.650
Microcephalus	3,998,805	222	5.6	6.1	6.2	6.2	4.7	4.5	*	36,650
Other central nervous system anomalies	3,998,805	981	24.8	26.0	27.4	21.0	24.1	24.8	38.5	36,650
Heart malformations	3.998.805	4.852	122.5	112.6	109.8	114.6	125.2	153.0	218.5	36.650
Other circulatory/respiratory anomalies	3,998,805	5,533	139.6	137.9	142.9	130.6	134.5	156.6	182.1	36,650
Rectal atresia/stenosis	3,998,805	355	9.0	10.3	8.5	9.0	8.3	8.1	*	36,650
Tracheo-esophageal fistula/Esophageal atresia	3,998,805	474	12.0	10.8	9.8	11.9	14.8	10.8	*	36,650
Omphalocele/Gastroschisis	3,998,805	1,258	31.8	82.8	42.2	21.6	15.7	17.8	*	36,650
Other gastrointestinal anomalies	3,998,805	1,357	34.2	37.0	34.5	30.0	33.0	36.9	64.5	36,650
Malformed genitalia	3,998,805	3,504	88.4	92.0	85.9	87.3	90.5	87.1	96.7	36,650
Renal agenesis	3,998,805	586	14.8	15.5	15.0	16.0	14.4	11.9	*	36.650
Other urogenital anomalies	3,998,805	4,072	102.8	87.0	99.9	104.3	102.0	115.2	139.4	36,650
Cleft lip/palate	3.998.805	3,192	80.6	87.0	87.8	78.6	74.0	74.5	87.4	36.650
Polydactyly/Syndactyly/Adactyly	3,998,805	3,263	82.4	106.8	102.6	74.0	67.2	66.6	67.6	36,650
Clubfoot	3,998,805	2,321	58.6	61.5	65.4	57.9	52.2	52.4	71.8	36,650
Diaphragmatic hernia	3,998,805	452	11.4	11.2	11.3	10.3	12.9	9.9	*	36,650
Other musculoskeletal/integumental anomalies	3,998,805	8,969	226.4	264.2	236.5	221.8	207.4	216.3	224.7	36.650
Down's syndrome	3.998.805	1.803	45.5	22.9	23.1	27.0	40.6	106.4	351.6	36.650
Other chromosomal anomalies	3,998,805	1,436	36.2	25.1	31.3	27.8	32.6	59.4	158.1	36,650
White										
Anencephalus	3,154,816	314	10.0	9.8	10.7	10.5	9.3	9.1	*	28,755
Spina bifida/Meningocele	3,154,816	637	20.4	25.6	22.4	20.7	20.0	13.8	*	28,755
Hydrocephalus	3,154,816	699	22.4	30.3	26.3	21.9	18.4	17.4	*	28,755
Microcephalus	3,154,816	158	5.1	*	6.1	5.5	3.5	*	*	28,755
Other central nervous system anomalies	3,154,816	782	25.0	28.4	27.4	20.7	25.6	23.2	37.4	28,755
Heart malformations	3,154,816	3,805	121.7	113.7	109.8	112.8	122.4	151.4	223.1	28,755
Other circulatory/respiratory anomalies	3,154,816	4,441	142.1	141.2	149.7	131.7	135.5	154.4	188.3	28,755
Rectal atresia/stenosis	3,154,816	299	9.6	11.1	9.3	10.3	8.5	8.3	*	28,755
Tracheo-esophageal fistula/Esophageal atresia	3,154,816	404	12.9	12.0	11.3	12.2	15.5	12.1	*	28,755
Omphalocele/Gastroschisis	3,154,816	987	31.6	91.6	43.8	20.4	15.2	17.6	*	28,755
Other gastrointestinal anomalies	3,154,816	1,048	33.5	35.4	35.0	27.7	32.9	36.7	65.8	28,755
Malformed genitalia	3,154,816	3,007	96.2	99.5	95.4	94.8	97.1	95.1	101.9	28,755
Renal agenesis	3,154,816	483	15.5	17.4	15.8	17.1	15.0	11.0	*	28,755
Other urogenital anomalies	3,154,816	3,354	107.3	86.9	107.5	106.9	105.4	121.0	147.0	28,755
Cleft lip/palate	3,154,816	2,715	86.9	100.8	96.3	83.4	79.7	77.2	90.3	28,755
Polydactyly/Syndactyly/Adactyly	3,154,816	1,828	58.5	66.7	67.8	52.3	55.0	53.8	55.5	28,755
Clubfoot	3,154,816	1,980	63.3	70.1	70.6	62.3	56.8	54.9	78.7	28,755
Diaphragmatic hernia	3,154,816	359	11.5	12.6	11.7	10.3	12.5	9.6	*	28,755
Other musculoskeletal/integumental anomalies	3,154,816	5,938	190.0	217.0	198.8	188.5	175.3	183.1	184.4	28,755
Down's syndrome	3,154,816	1,580	50.5	24.0	25.8	30.0	44.4	114.7	385.6	28,755
Other chromosomal anomalies	3,154,816	1,150	36.8	24.3	30.9	27.9	34.5	58.7	161.2	28,755

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, 2001 -- Con.

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

	A 11	Congenital			A	Age of moth	er			
Congenital anomaly and race of mother	All births ¹	anomaly reported	All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	Not stated ²
Black										
Anencephalus	605,645	57	9.5	*	10.6	*	*	*	*	4.255
Spina bifida/Meningocele	605,645	128	21.3	23.8	25.3	14.7	*	*	*)
Hydrocephalus	605,645	120	21.3	25.0	23.3	23.5	23.4	*	*	4,255 4,255
Microcephalus	605,645	42	25.1	20.4	23.3	23.5	23.4	*	*	4,255
Other central nervous system anomalies	605,645	123	20.5	*	22.8	17.6	*	*	*	4,255
Other central hervous system anomalies	605,645	123	20.5		22.8	17.0				4,255
Heart malformations	605,645	721	119.9	93.4	107.2	118.2	141.7	176.9	201.9	4,255
Other circulatory/respiratory anomalies	605,645	731	121.6	111.0	106.7	123.3	134.3	174.8	*	4,255
	000,010					.20.0	10110			.,200
Rectal atresia/stenosis	605,645	37	6.2	*	*	*	*	*	*	4,255
Tracheo-esophageal fistula/Esophageal atresia	605.645	41	6.8	*	*	*	*	*	*	4,255
Omphalocele/Gastroschisis	605,645	222	36.9	57.3	38.4	30.1	26.6	*	*	4,255
Other gastrointestinal anomalies	605,645	216	35.9	35.2	30.8	40.4	37.3	*	*	4,255
	000,010	2.0	00.0	0012	00.0		0.10			1,200
Malformed genitalia	605,645	348	57.9	74.0	55.1	49.9	54.4	55.5	*	4,255
Renal agenesis	605.645	69	11.5	*	10.1	*	*	*	*	4,255
Other urogenital anomalies	605,645	399	66.3	67.8	55.6	72.7	69.3	72.0	*	4,255
	,									.,
Cleft lip/palate	605,645	266	44.2	41.4	46.0	42.6	37.3	59.6	*	4,255
Polydactyly/Syndactyly/Adactyly	605,645	1,324	220.2	221.1	245.3	220.9	194.0	178.9	*	4,255
Clubfoot	605,645	256	42.6	40.5	47.0	40.4	34.1	49.4	*	4,255
Diaphragmatic hernia	605,645	66	11.0	*	*	*	*	*	*	4,255
Other musculoskeletal/integumental anomalies	605,645	2,248	373.8	352.3	348.4	386.7	409.3	407.2	438.9	4,255
Down's syndrome	605,645	151	25.1	18.5	12.1	*	27.7	74.0	237.0	4,255
Other chromosomal anomalies	605,645	170	28.3	21.1	26.3	22.0	24.5	59.6	*	4,255
other enternosonnar anomalies	000,040	170	20.0	21.1	20.0	22.0	27.0	00.0		7,200

* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.
1 Total number of births to residents of areas reporting specified congenital anomaly.
2 No response reported for the congenital anomalies item.
3 Includes races other than white and black.

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

Table 50. Live births by plurality of birth and ratios, by age and race and Hispanic origin of mother: United States, 2001

						Age of m	nother				
Plurality and race and Hispanic origin	All	Under	1	5-19 years							
of mother	ages	15 years	Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-54 years
						Number					
II live births											
Il races ¹		7,781	445,944	145,324	300,620	1,021,627	1,058,265	942,697	451,723	92,813	5,083
/hite, total		4,095	318,563	99,192	219,371	779,529	850,343	777,294	368,816	74,856	4,130
White, non-Hispanic lack, total		1,581 3,455	190,161 110,843	52,712 40,842	137,449 70,001	523,027 199,221	622,361 137,400	625,435 94,660	300,007 49.065	60,614 11,001	3,39 51
Black, non-Hispanic	589,917	3,401	108,252	39,907	68,345	194,391	133,491	91,710	47,494	10,691	48
spanic ²	851,851	2,555	130,007	47,124	82,883	258,431	227,910	150,352	67,952	13,956	68
e births in single deliveries											
races ¹		7,697	438,998	143,391	295,607	998,302	1,026,303	904,124	429,710	88,022	4,06
hite, total Vhite, non-Hispanic		4,046 1,557	314,271 187,451	98,015 52,040	216,256 135,411	763,468 511,521	825,125 602,112	744,657 597,031	350,160 283,631	70,747 56,947	3,20 2,55
ack, total		3,426	108,412	40,134	68,278	192,702	132,056	90,714	46,809	10,600	2,50
lack, non-Hispanic	569,412	3,372	105,870	39,209	66,661	187,977	128,277	87,859	45,313	10,296	44
spanic ²	833,884	2,530	128,391	46,613	81,778	253,841	222,956	146,271	65,717	13,556	62
e births in twin deliveries											
races ¹ ite. total		81 46	6,849 4,228	1,917 1,164	4,932 3,064	22,752 15,627	30,344 23,759	35,581 29,944	20,265 17,076	4,462 3,822	9 [.] 8 [.]
hite, non-Hispanic)	40 21	4,220	669	2,020	11,173	18,974	29,944	14,943	3,622	0 74
ck, total		29	2,404	705	1,699	6,395	5,221	3,784	2,161	379	
ack, non-Hispanic	19,974	29	2,355	695	1,660	6,290	5,094	3,702	2,092	373	
panic ²	17,257	25	1,573	501	1,072	4,489	4,774	3,861	2,092	386	
e births in higher order multiple deliveries ³											
races 1		3	97	16	81	573	1,618	2,992	1,748	329	11
ite, total hite, non-Hispanic		3 3	64 21	13 3	51 18	434 333	1,459 1,275	2,693 2,468	1,580 1,433	287 265	10
ck, total		-	27	3	24	124	123	162	95	203	
ack, non-Hispanic		-	27	3	24	124	120	149	89	22	
panic ²	710	-	43	10	33	101	180	220	143	14	
					Ratio p	er 1,000 live	births				
multiple births											
races ¹	32.0	10.8	15.6	13.3	16.7	22.8	30.2	40.9	48.7	51.6	201
ite, total		12.0	13.5	11.9	14.2	20.6	29.7	42.0	50.6	54.9	223
nite, non-Hispanic		15.2	14.3	12.7	14.8	22.0	32.5	45.4	54.6	60.5	247
k, total ck, non-Hispanic		8.4 8.5	21.9 22.0	17.3 17.5	24.6 24.6	32.7 33.0	38.9 39.1	41.7 42.0	46.0 45.9	36.5 36.9	80 80
anic ²		9.8	12.4	10.8	13.3	17.8	21.7	27.1	32.9	28.7	95
births											
aces ¹	30.1	10.4	15.4	13.2	16.4	22.3	28.7	37.7	44.9	48.1	179
te, total		11.2	13.3	11.7	14.0	20.0	27.9	38.5	46.3	51.1	196
hite, non-Hispanic	33.5	13.3	14.1	12.7	14.7	21.4	30.5	41.5	49.8	56.1	219
ck, total		8.4	21.7	17.3	24.3	32.1	38.0	40.0	44.0	34.5	80
ack, non-Hispanic		8.5	21.8	17.4	24.3	32.4	38.2	40.4	44.0	34.9	80
panic ²	20.3	9.8	12.1	10.6	12.9	17.4	20.9	25.7	30.8	27.7	82
her order multiple births ³					Hatio pe	r 100,000 live					
										a = 1	
races 1		*	21.8	*	26.9	56.1	152.9	317.4	387.0	354.5	
ite, total hite, non-Hispanic		*	20.1 11.0	*	23.2	55.7 63.7	171.6 204.9	346.5 394.6	428.4	383.4 437.2	
ck, total		*	24.4	*	34.3	63.7 62.2	204.9 89.5	394.6 171.1	477.7 193.6	200.0	2030
ack, non-Hispanic		*	24.9	*	35.1	63.8	89.9	162.5	187.4	205.8	
acia, non nopanio minimum											

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

Technical Notes

Source of data

Data shown in this report for 2001 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 the percent of records with missing information for maternal and infant characteristics included in this report is shown by State in table I. Data are not shown for the variables race, age, and marital status of mother. Missing data are imputed in these cases; see separate sections in the Technical Notes for more information.

Age of mother

Age of mother is computed in most cases from the mother's and infant's dates of birth as reported on the birth certificate. The mother's age is directly reported by five States (Kentucky, Nevada, North Dakota, Virginia, and Wyoming) and American Samoa. From 1964 to 1996, mother's age was edited for ages 10-49 years. Births reported to occur to mothers younger than age 10 or older than age 49 years had age imputed according to the age of mother from the previous record with the same race and total birth order (total of live births and fetal deaths). Beginning in 1997, age of mother is imputed for ages 9 years or under and 55 years and over. A review and verification of unedited birth data for 1996 showed that the vast majority of births reported as occurring to women aged 50 years and over were to women aged 50-54 years. The numbers of births to women aged 50-54 years are too small for computing age-specific birth rates. These births have been included with births to women aged 45-49 years for computing birth rates.

In 2001 age of mother was not reported on 0.01 percent of the records; for these records age of mother was imputed according to the last record with the same race and total birth order.

Race and Hispanic origin

Race and Hispanic origin are reported separately on the birth certificate. Beginning with the 1989 data year, NCHS started tabulating its birth data primarily by race of the mother. 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 (131). They include

the 1989 revision of the birth certificate, which includes many more health questions which are directly associated with the mother. In these instances, it is more appropriate to tabulate births by the mother's race. A second factor has been the increasing incidence of interracial parentage. In 2001, 5.3 percent of births were to parents of different races compared with just 1.9 percent for 1980. A third factor influencing the decision to tabulate births by race of mother is the large proportion of births with race of father not stated, 13 percent in 2001. The high proportion of records with the father's race not reported reflects the increase in the proportion of births to unmarried women; in many such cases, no information is reported on the father. These births are already assigned the race of the mother because there is no alternative. Tabulating all births by race of mother, therefore, provides for a more uniform approach, rather than a necessarily arbitrary combination of parental races.

Race of mother is reported by all registration areas in eight categories: white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and "other" Asian or Pacific Islander (API). In addition, 11 States (California, Hawaii, Illinois, Minnesota, Missouri, New Jersey, New York, Texas, Virginia, Washington, and West Virginia) report data on additional API subgroups that would otherwise be included in the "other" API category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API). A report on births in 1992 to women in these API subgroups has been published (132).

In 2001 race of mother was not reported for 0.4 percent of births. In these cases, if the race of the father was known, the race of the father was assigned to the mother. When information was not available for either parent, the race of the mother was imputed according to the specific race of the mother on the preceding record with a known race of mother. This was necessary for just 0.3 percent of births in 2001.

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

Items asking for the Hispanic origin of the mother and the father have been included on the birth certificates of all States and the District of Columbia, the Virgin Islands, and Guam since 1993 (133). Puerto Rico, American Samoa, and the Northern Marianas do not collect this information. The percent of records for which Hispanic origin of the parents was not reported in 2001 is shown by State in table I.

Marital status

National estimates of births to unmarried women are based on two methods of determining marital status. For 1994 through 1996, birth certificates in 45 States and the District of Columbia included a question about the mother's marital status. Beginning in 1997, the marital status of women giving birth in California and Nevada is determined by a direct question in the birth registration process. Beginning June 15, 1998, Connecticut discontinued inferring the mother's marital status and added a direct question on mother's marital status to the State's birth certificate.

In the two States (Michigan and New York) which use inferential procedures to compile birth statistics by marital status in 2001, a birth is inferred as nonmarital if any of these factors, listed in priority-of-use order, is present: a paternity acknowledgment was received or the father's name is missing. In recent years, a number of States have extended their efforts to identify the fathers when the parents are not married in order to enforce child support obligations. The presence of a paternity acknowledgment therefore is the most reliable indicator that the birth is nonmarital in the States not reporting this information directly; this is now the key indicator in the nonreporting States. Details of the changes in reporting procedures are described in previous reports (31, 134).

The mother's marital status was not reported in 2001 on 0.03 percent of the birth records in the 48 States and the District of Columbia where this information is obtained by a direct question. Marital status was imputed as "married" for these records.

Tobacco use

Beginning in 2001, data on whether or not the mother smoked during pregnancy is available for all States and the District of Columbia, except for California. These areas comprised 87 percent of U.S. births in 2001. Data on the number of cigarettes smoked daily were available in a comparable format for 46 States, the District of Columbia, and New York City. Indiana and New York State (except for New York City) reported information on number of cigarettes smoked in a format that was inconsistent with the NCHS standard (see figure I). South Dakota did not report this information. The areas reporting on the number of cigarettes smoked comprised 81 percent of U.S. births in 2001.

Gestation

The primary measure used to determine the gestational age of the newborn is the interval between the first day of the mother's last normal menstrual period (LMP) and the date of birth. It is subject to error for several reasons, including imperfect maternal recall or misidentification of the LMP because of postconception bleeding, delayed ovulation, or intervening early miscarriage. These data are edited for LMP-based gestational ages that are clearly inconsistent with the infant's plurality and birthweight (see below), but reporting problems for this item persist and may occur more frequently among some subpopulations and among births with shorter gestations (135.136).

The U.S. Standard Certificate of Live Birth includes an item, "clinical estimate of gestation," that was compared with length of gestation computed from the date the last normal menstrual period (LMP) began when the latter appeared to be inconsistent with birthweight. This was done for normal weight births of apparently short gestations and very low birthweight births reported to be full term. The clinical estimate was also used if the LMP date was not reported. The period of gestation for 4.9 percent of the births in 2001 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 LMPbased 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 283 births or 0.007 percent of all birth records in 2001. The levels of the adjustments in 2001 data were similar to those for 2000 and earlier years (122).

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 (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.

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 2001

[By place of residence]

	All	Place	Attendant	Mother's	Father's	Father's	Hispani	c origin
Area	births	of birth	at birth	birthplace	age	race	Mother	Father
Total of reporting areas ¹	4,025,933	0.0	0.0	0.3	13.5	14.1	0.6	14.1
Nabama	60,454	0.0	0.0	0.1	21.4	21.5	0.1	21.4
Maska	10,003	0.2	0.1	0.7	12.2	13.8	8.7	17.3
Arizona	85,597	0.0	0.0	0.1	18.3	19.5	1.3	19.9
Arkansas	37,010	0.0	0.0	0.4	19.7	21.0	0.4	20.3
California	527,759	0.0	0.1	0.2	7.1	6.7	0.6	6.3
Colorado	67,007	-	0.0	0.4	8.1	8.5	0.0	8.6
	42,648	0.0	0.0	0.3	10.2	11.6	1.2	11.3
	10,749	-	-	0.1	29.7	30.4	0.1	29.6
District of Columbia	7,625	-	_	0.1	39.2	47.4	0.6	39.1
ilorida	205,793	0.0	0.0	0.1	16.7	17.0	0.2	18.5
Georgia	133,526	0.0	0.0	0.2	17.6	17.8	1.2	18.5
ławaii	17,072	-	0.0	0.1	9.4	9.5	0.1	9.2
daho	20,688	0.0	0.0	0.7	8.2	11.7	1.9	12.4
linois	184,064	0.0 0.0	0.0 0.0	0.1 0.1	13.4 12.6	15.2 12.6	0.0 0.4	15.1 12.9
ndiana	86,459							
owa	37,619	-	0.0	0.0	12.6	14.3	0.3	14.0
(ansas	38,869	_	0.1	0.1	10.4	11.2	1.1	11.9
	54,658	0.0	0.1	0.0	19.6	22.2	0.0	22.4
.ouisiana	65,352 13,759	0.0	0.0	0.0	20.3 8.6	20.3 12.4	0.1 0.4	20.3 10.4
	73,218	0.0	0.0	0.4	11.5	12.7	0.4	10.7
Aaryland	81,077	0.0	0.0	0.4	7.0	7.4	0.4	6.7
	133,427	0.0	0.0	0.0	14.2	16.4	1.4	17.3
linnesota	67,562	0.0	0.0	0.2	9.4	13.5	0.7	13.3
	42,282	-	0.0	0.2	22.1	22.0	0.1	22.1
Missouri	75,464	0.0	_	0.2	18.5	18.3	0.1	17.8
Aontana	10.970	0.0	0.2	0.2	9.8	11.0	2.9	13.6
lebraska	24,820	_	-	-	11.8	13.3	2.1	13.8
Vevada	31,382	0.0	0.0	0.5	20.0	20.9	1.1	20.0
New Hampshire	14,656	_	_	0.1	5.4	7.5	4.5	10.8
lew Jersey	115,795	0.0	0.0	0.1	7.9	9.5	0.3	8.3
lew Mexico	27,128	-	0.0	1.3	21.0	20.5	0.0	20.5
lew York	254,026	0.1	0.0	0.4	14.0	14.4	1.1	14.8
North Carolina	118,185	-	0.0	0.0	15.7	15.8	0.1	16.1
North Dakota	7,629	0.0	-	0.0	8.5	8.9	2.5	11.5
Dhio	151,570	0.0	0.0	1.1	14.9	15.5	0.2	15.0
Oklahoma	50,118	0.0	0.0	0.0	17.5	18.8	0.2	18.4
Dregon	45,322	-	-	0.1	10.3	4.0	0.3	4.3
Pennsylvania	143,495	0.0	0.0	0.9	5.0	5.4	0.7	4.2
Rhode Island	12,713	-	-	0.5	13.4	13.9	9.9	20.5
South Carolina	55,756	-	-	0.1	27.1	27.3	0.1	27.1
South Dakota	10,483	-	_	0.0	13.1	13.2	0.1	13.4
ennessee	78,340	0.0	0.0	0.1	15.3	15.5	0.0	15.5
exas	365,410	0.0	0.0	0.5 0.2	14.2	14.4 10.0	0.3 0.6	14.4 9.4
Jtah	47,959	-			8.4			
/ermont	6,366	-	_	0.1	7.6	13.6	3.0	15.9
	98,884	_	0.0	0.1	16.6	18.5	0.2	16.7
Vashington	79,570	0.0	0.1	0.5	10.6	13.1	1.7	13.3
Vest Virginia	20,428 69,072	0.2 0.0	0.0 0.0	0.1 0.1	12.7 29.5	13.1 29.6	0.3 0.0	13.2 29.6
	6,115	-	-	0.1	13.6	14.0	0.1	13.8
Vyoming	55,866	0.0	0.1	0.1	3.4	4.2	0.1	13.8
/irgin Islands	1,669	0.0	0.1	_	19.4	21.0	3.1	24.7
Guam	3,565	0.1	0.9	0.8	22.1	23.1	2.6	24.7
American Samoa	1,655	-	0.2	5.1	28.3	30.3	2.0	27.5
Commonwealth of the	1,000		0.2	0.1	20.0	00.0		
Northern Marianas Islands	1,449	-	0.3	-	7.4	4.1		
	,							

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 2001—Con.

[By place of residence]

Area	Educational attainment of mother	Live-birth order	Length of gestation	Month prenatal care began	Number of prenatal visite
otal of reporting areas ¹	1.4	0.3	1.0	2.4	3.1
Nabama	0.2	0.0	0.1	0.3	0.3
laska	3.4	2.1	0.4	4.1	7.2
					2.9
rizona	2.3	0.3	0.1	1.6	
rkansas	0.7	0.2	0.2	1.8	2.4
alifornia	1.6	0.1	² 5.9	1.6	2.8
olorado	1.1	0.0	0.0	1.6	2.3
onnecticut	1.5	0.7	0.2	1.9	4.1
	0.6	0.1	0.1	0.2	0.4
	7.0	1.1	0.3	14.3	9.6
lorida	0.7	0.0	0.1	1.2	2.1
eorgia	1.2	0.4	0.1	4.4	3.9
awaii	0.8	0.0	0.7	2.5	2.5
laho	3.1	0.2	0.5	6.7	4.2
inois	1.1	0.1	0.2	2.5	2.7
diana	0.6	0.1	0.1	0.9	2.2
wa	0.3	0.0	0.1	0.5	1.4
ansas	0.4	0.0	0.1	0.9	1.1
entucky	0.3	0.0	0.1	1.2	1.5
	0.3	0.0	0.1	0.4	0.4
laine	0.9	0.4	0.1	0.5	0.7
laryland	1.4	0.2	0.4	2.3	3.4
assachusetts	0.3	0.3	0.4	1.5	0.5
lichigan	2.2	0.2	0.1	1.9	2.5
	2.3	0.5	0.5	4.0	4.8
lississippi	0.3	0.1	0.1	0.6	1.1
lissouri	0.7	0.3	0.2	2.2	3.8
ontana	0.1	0.0	0.1	0.4	0.3
ebraska	0.1	0.0	0.0	0.4	0.4
		0.8	1.0	4.1	8.1
	2.9				
ew Hampshire	1.3	0.2	0.2	2.1	1.9
lew Jersey	2.9	0.1	0.1	3.9	3.9
lew Mexico	2.9	1.4	0.2	5.1	5.1
ew York	1.0	0.3	0.1	4.6	2.9
	0.2	0.0	0.0	0.6	0.6
orth Carolina					
orth Dakota	0.5	0.0	0.1	0.9	0.7
)hio	0.9	1.1	0.0	1.9	2.9
)klahoma	0.3	0.7	0.1	1.9	0.7
Dregon	1.2	0.0	0.0	0.1	0.2
	2.7	0.0	0.0	5.0	6.4
hode Island	2.4	1.1	0.2	2.6	3.0
outh Carolina	1.1	0.1	0.1	0.9	1.0
outh Dakota	0.3	-	0.0	0.3	0.3
ennessee	0.3	0.1	0.2	1.8	1.9
EXAS	2.0	1.1	0.9	3.2	6.7
tah		0.3	0.9	2.2	2.8
	1.6	0.0	0.1	۲.۲	2.0
ermont	0.9	0.5	0.2	4.0	2.2
irginia	1.0	0.0	0.0	0.3	1.1
ashington	6.1	1.4	0.8	8.2	9.7
/est Virginia	0.6	0.0	0.1	3.4	2.0
	0.3	0.0	0.0	0.3	0.4
1900119111	0.0	0.0	0.0	0.3	0.4
/yoming	0.3	-	0.1	0.4	0.6
uerto Rico.	0.3	0.0	0.1	0.3	0.1
irgin Islands.	1.7	1.3	0.6	0.1	2.0
5			0.0	1.7	2.0
	1.6	1.5	0.2	1.7	2.0
		-			
ommonwealth of the		_		_	
orthern Marianas Islands	3.0	0.7	0.8	2.0	2.1

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 2001—Con.

[By place of residence]

Total of reporting areas ¹ 0.1 0.4 0.9 0.7 0.9 Alabarna 0.1 0.3 0.0 0.1 0.1 Ataska. 0.4 0.6 2.7 0.9 1.1 Arizona 0.1 0.3 0.0 1.2 1.3 Arizona 0.1 0.3 0.0 1.2 1.3 California 0.0 0.3 0.0 0.3 0.3 California 0.0 0.6 2.4 1.0 1.1 Detordo 0.0 0.6 2.4 1.0 1.1 Detordo 0.0 0.4 0.4 0.5 0.5 Idata 0.1 0.2 0.0 0.1 0.1 District of Columbia 0.1 0.5 0.4 0.6 0.7 Illinois 0.1 0.3 0.1 0.1 0.1 0.1 Idaba 0.1 0.3 0.1 0.1 0.1 0.1 Imana </th <th>Area</th> <th>Birthweight</th> <th>5-minute Apgar score</th> <th>Medical risk factors</th> <th>Tobacco use</th> <th>Alcohol use</th> <th>Weight gain</th>	Area	Birthweight	5-minute Apgar score	Medical risk factors	Tobacco use	Alcohol use	Weight gain
Alaska 0.4 0.6 2.7 0.9 1.1 Arkanas 0.1 0.3 0.0 1.2 1.3 Arkanas 0.1 0.3 0.0 Colatdonia 0.0 0.0 0.0 Conacto 0.0 0.6 2.4 1.0 1.1 Delavare 0.1 0.2 0.0 0.1 0.1 Delavare 0.1 0.2 0.0 0.1 0.1 Delavare 0.1 0.2 0.0 0.1 0.1 Georgia 0.0 0.4 0.4 0.5 0.5 Hawai 0.1 0.5 0.4 0.1 0.1 Gabo 0.1 0.6 0.4 0.6 0.7 Illinois 0.1 0.3 0.1 0.1 0.1 Gabo 0.1 0.3 0.1 0.1 0.1 Illinois 0.1 0.3 0.1 0.1 0.1 Illinois 0.1 0.3 0.1 0.1 <t< td=""><td>reporting areas¹</td><td>0.1</td><td>0.4</td><td>0.9</td><td>0.7</td><td>0.9</td><td>7.0</td></t<>	reporting areas ¹	0.1	0.4	0.9	0.7	0.9	7.0
Alaska. 0.4 0.6 2.7 0.9 1.1 Arkanas 0.1 0.3 0.0 1.2 1.3 Arkanas 0.1 3.3 0.1 0.7 0.8 California 0.0 0.0 Conacto 0.0 0.3 0.0 0.3 0.3 0.3 Connecticut 0.0 0.6 2.4 1.0 1.1 1.1 0.1		0.1	0.3	0.0	0.1	0.1	3.6
Aizona 0.1 0.3 0.0 1.2 1.3 California 0.0 0.0 0.0 Colorado 0.0 0.3 0.0 0.3 0.3 Colorado 0.0 0.6 2.4 1.0 1.1 Delavare 0.0 0.6 2.4 1.0 1.1 Delavare 0.1 0.2 0.0 0.1 0.1 District of Columbia 0.0 1.0 - 0.0 0.0 Florida 0.1 0.2 0.0 0.1 0.1 0.1 Georgia 0.1 0.2 0.0 0.1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.6</td>							7.6
Arkansas 0.1 3.3 0.1 0.7 0.8 California 0.0 0.0 0.0 Conrecticut 0.0 0.3 0.0 0.3 0.3 0.3 Connecticut 0.0 0.6 2.4 1.0 1.1 1.1 0.2 0.1							17.3
California 0.0 0.0 0.0 Colorado 0.0 0.3 0.0 0.3 0.3 0.3 Colorado 0.0 0.6 2.4 1.0 1.1 Delavare 0.1 0.2 0.0 0.1 0.1 Delixit of Columbia 0.0 1.0 - 0.0 0.0 Florida 0.1 0.2 0.0 0.1 0.1 Georgia 0.1 0.2 0.0 0.4 0.4 0.5 Hawaii 0.1 0.5 0.4 0.1 0.1 1.1							7.7
Colorado 0.0 0.3 0.0 0.3 0.3 Connecticut. 0.0 0.6 2.4 1.0 1.1 Detivare 0.1 0.2 0.0 0.1 0.1 District of Columbia. 0.1 0.2 0.0 0.1 0.1 Gorgia 0.0 0.4 0.4 0.5 0.5 Hawaii 0.1 0.5 0.4 0.1 0.1 Idaho 0.1 0.6 0.4 0.6 0.7 Illinois 0.1 0.3 0.1 0.1 0.2 0.2 lowa 0.1 0.3 0.1 0.1 0.1 0.1 0.1 Illinois 0.1 0.3 0.1							
Connecticut. 0.0 0.6 2.4 1.0 1.1 Delaware 0.1 0.2 0.0 0.1 0.1 District of Columbia. 0.1 0.2 0.0 0.1 0.1 Georgia 0.0 0.4 0.4 0.5 0.5 Hawaii. 0.1 0.5 0.4 0.1 0.1 Iticias 0.1 0.6 0.4 0.6 0.7 Itiliois 0.1 0.3 0.0 0.2 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Indiana 0.0 0.4 *0.2 0.2 0.2 Indiana 0.0 0.4 *0.2 0.2 0.2 Kentucky 0.2 0.4 4.6 2.7 3.2 Lousiana 0.1 0.5 0.0 0.2 0.2 Michigan 0.1 0.5							
Delaware 0.1 0.2 0.0 0.1 0.1 District of Columbia 0.0 1.0 - 0.0 0.0 Florida 0.1 0.2 0.0 0.1 0.1 Georgia 0.0 0.4 0.4 0.5 0.5 Hawaii 0.1 0.5 0.4 0.1 0.1 Idaho 0.1 0.6 0.4 0.1 0.1 Idaha 0.1 0.3 0.0 0.2 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Indiana 0.0 0.4 %0.2 0.2 0.2 Kentacky 0.2 0.2 0.2 0.2 0.2 Kentacky 0.2 0.1 0.2 0.2 0.2 Maryland 0.0 0.5 0.0 0.2 0.2 Micsigan 0.1 0.4 0.4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.4</td>							3.4
District of Columbia 0.0 1.0 - 0.0 0.0 Florida 0.1 0.2 0.0 0.1 0.1 Georgia 0.0 0.4 0.4 0.5 0.5 Hawaii 0.1 0.5 0.4 0.1 0.1 Idaho 0.1 0.3 0.0 0.2 0.1 Illinois 0.1 0.3 0.0 0.2 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Indiana 0.0 0.4 %0.2 0.2 0.2 Kentucky 0.2 0.4 4.6 2.7 3.2 Lousiana 0.0 0.5 0.0 0.2 0.2 Maryland 0.1 0.4 0.4 0.5 0.3 0.2 Missispipi 0.0 0.2 0.1 0.3 0.3 0.2 Missispipi							6.9
Florida. 0.1 0.2 0.0 0.1 0.1 Georgia. 0.0 0.4 0.4 0.5 0.5 Hawaii. 0.1 0.6 0.4 0.6 0.7 Ithavaii. 0.1 0.6 0.4 0.6 0.7 Ithinois. 0.1 0.3 0.0 0.2 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Iowa 0.1 0.3 0.1 0.1 0.1 Kansas 0.0 0.4 *0.2 0.2 0.2 Louisiana 0.0 0.3 0.1 0.1 0.1 Maine 0.1 0.2 0.1 0.9 1.3 Maryland 0.0 0.5 0.0 0.2 0.2 Massachusetts 0.4 0.4 0.4 0.3 0.3 Mississippi 0.0 0.2 0.1 0.3 0.3 Missississippi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.4 0.4				0.0			0.8
Georgia 0.0 0.4 0.4 0.5 0.5 Hawaii 0.1 0.5 0.4 0.1 0.1 Idaho 0.1 0.3 0.0 0.2 0.1 Illinois 0.1 0.3 0.0 0.2 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Kansas 0.0 0.4 *0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.1 0.3 0.3 0.2 0.2 0.4 0.4 0.5 0.3 0.2 Michigan 0.1 0.4 0.4 0.5 0.3 0.2 Michigan 0.1 0.3 0.3 0.3 0.3 0.3<							15.1
Hawäi 0.1 0.5 0.4 0.1 0.1 Idaho 0.1 0.6 0.4 0.6 0.7 Ilinois 0.1 0.6 0.4 0.6 0.7 Indiana 0.1 0.3 0.0 0.2 0.1 Indiana 0.4 0.3 0.1 0.1 0.1 Karasa 0.0 0.4 *0.2 0.2 0.2 0.2 Kentucky 0.2 0.4 4.6 2.7 3.2 0.1 0.3 0.2 Michigan 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3		0.1	0.2	0.0	0.1	0.1	5.8
Idaho 0.1 0.6 0.4 0.6 0.7 Illinois 0.1 0.3 0.0 0.2 0.1 Indiana 0.4 0.3 0.1 "0.2 0.2 Iowa 0.1 0.3 0.1 0.1 0.1 0.1 Kansas 0.0 0.4 "0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.4 4.6 2.7 3.2 Louisiana 0.0 0.3 0.1 0.3 0.3 0.2 0.3 0.3 <		0.0	0.4	0.4	0.5	0.5	10.0
Illinois 0.1 0.3 0.0 0.2 0.1 Indiana 0.4 0.3 0.1 ⁴ 0.2 0.2 Iowa 0.1 0.3 0.1 0.1 0.1 0.1 Kansas 0.0 0.4 ⁵ 0.2 0.2 0.2 Kentucky 0.2 0.4 4.6 2.7 3.2 Louisiana 0.0 0.3 0.1 0.1 0.1 Maryland 0.0 0.5 0.0 0.2 0.2 Massachusetts 0.4 0.4 0.5 0.3 0.2 Michigan 0.1 0.3 0.1 1.1 1.1 Innesota 0.1 0.4 8.2 8.1 8.2 Mississippi 0.0 0.2 0.1 0.3 0.3 0.3 Minnesota 0.1 0.4 8.2 8.1 8.2 Mississippi 0.0 0.1 0.4 0.8 1.1 Netraska 0.0 0.1 0.0 0.0 0.0 Nev darse 0.1		0.1	0.5	0.4	0.1	0.1	14.4
Indiana 0.4 0.3 0.1 ⁴ 0.2 0.2 lowa 0.1 0.3 0.1 0.1 0.1 0.1 Kansas 0.0 0.4 ⁵ 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.9 1.3 Maryland 0.0 0.5 0.0 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0		0.1	0.6	0.4	0.6	0.7	10.9
lowa. 0.1 0.3 0.1 0.1 0.1 Kansas 0.0 0.4 ${}^30.2$ 0.2 0.2 Kentucky. 0.2 0.4 4.6 2.7 3.2 Louisiana 0.0 0.3 0.1 0.1 0.1 Maryland 0.0 0.5 0.0 0.2 0.2 Massachusetts 0.4 0.4 0.5 0.3 0.2 0.2 Michigan 0.1 0.3 0.0 1.1 1.1 1.1 Minssotri 0.1 0.4 0.4 0.5 0.3 0.2 Mississipi 0.0 0.2 0.1 0.3		0.1	0.3	0.0		0.1	4.3
Kansas 0.0 0.4 ³ 0.2 0.2 0.2 Kentucky 0.2 0.4 4.6 2.7 3.2 Louisiana 0.0 0.3 0.1 0.1 0.1 Maryland 0.0 0.5 0.0 0.2 0.2 Massachusetts 0.4 0.4 0.5 0.3 0.2 0.2 Michigan 0.1 0.3 0.0 1.1 1.1 1.1 Minesota 0.1 0.3 0.0 1.1 1.1 1.1 Minesota 0.1 0.4 8.2 8.1 8.2 Mississipi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.4 0.0 0.0 0.0 Nevada 0.0 1.1 8.6 1.6 1.6 New Mexico 0.2 3.4 0.0 1.3 1.4 New Mexico 0.2 0.2 0.2 0.2 0.2 0.2 <		0.4	0.3	0.1	⁴ 0.2	0.2	2.8
Kansas 0.0 0.4 ³ 0.2 0.2 0.2 Kentucky 0.2 0.4 4.6 2.7 3.2 Louisiana 0.0 0.3 0.1 0.1 0.1 Maryland 0.0 0.5 0.0 0.2 0.2 Massachusetts 0.4 0.4 0.5 0.3 0.2 0.2 Michigan 0.1 0.3 0.0 1.1 1.1 1.1 Minesota 0.1 0.3 0.0 1.1 1.1 1.1 Minesota 0.1 0.4 8.2 8.1 8.2 Mississipi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.4 0.0 0.0 0.0 Nevada 0.0 1.1 8.6 1.6 1.6 New Mexico 0.2 3.4 0.0 1.3 1.4 New Mexico 0.2 0.2 0.5 0.9 0.6 0.6 <		0.1	0.3	0.1	0.1	0.1	0.7
Kentucky 0.2 0.4 4.6 2.7 3.2 Louisiana 0.0 0.3 0.1 0.1 0.1 Marie 0.1 0.2 0.1 0.9 1.3 Maryland 0.0 0.5 0.0 0.2 0.2 Misacschusetts 0.4 0.4 0.5 0.3 0.2 Michigan 0.1 0.3 0.0 1.1 1.1 Minnesota 0.1 0.4 8.2 8.1 8.2 Mississippi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.4 0.0 0.8 1.1 Nebraska 0.0 0.1 0.0 0.8 1.1 Nebraska 0.0 0.1 0.0 0.0 0.0 New data 0.1 0.2 0.0 0.6 0.6 New Harpshire 0.1 0.3 0.8 0.7 0.8 New Morko 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 0.2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.2</td>							0.2
Louisiana 0.0 0.3 0.1 0.1 0.1 Maire 0.1 0.2 0.1 0.9 1.3 Maryland 0.0 0.5 0.0 0.2 0.2 Massachusetts 0.4 0.4 0.5 0.3 0.2 0.2 Michigan 0.1 0.3 0.0 1.1 1.1 1.1 Minesota 0.1 0.4 8.2 8.1 8.2 Missispipi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.5 0.1 0.4 0.4 Nevada 0.0 0.1 0.0 0.0 0.0 0.0 New Hampshire 0.1 0.2 0.0 0.6 0.6 0.6 New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 "0.2 0.2 0.2 North Carolina 0.1 0.2 0.2 0.5 0.9							8.0
Maine 0.1 0.2 0.1 0.9 1.3 Maryland 0.0 0.5 0.0 0.2 0.2 Massachusetts 0.4 0.4 0.5 0.3 0.2 Michigan 0.1 0.3 0.0 1.1 1.1 Minesota 0.1 0.4 8.2 8.1 8.2 Mississippi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.4 0.0 0.8 1.1 Nebraska 0.0 0.1 0.0 0.0 0.0 0.0 New dat 0.1 0.2 0.0 0.6 0.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Jersey. 0.1 0.3 0.8 0.7 0.8 New Markoo 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 0.3 0.3 0.3 Noth Carolina 0.1 0.2							5.6
Maryland 0.0 0.5 0.0 0.2 0.2 Massachusetts 0.4 0.4 0.5 0.3 0.2 Michigan 0.1 0.3 0.0 1.1 1.1 Minnesota 0.1 0.4 8.2 8.1 8.2 Mississippi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.5 0.1 0.4 0.4 Mortana 0.0 0.1 0.0 0.0 0.0 Nevada 0.0 1.1 8.6 1.6 1.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Mexico 0.1 0.2 2.3 40.2 0.2 0.2 New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 40.2 0.2 North Carolina 0.1 0.2 0.2 0.5 0.9 North Carolina 0.1					0.9		1.7
Massachusetts 0.4 0.4 0.5 0.3 0.2 Michigan 0.1 0.3 0.0 1.1 1.1 Minnesota 0.1 0.4 8.2 8.1 8.2 Missispipi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.5 0.1 0.4 0.4 Netraska 0.0 0.1 0.0 0.8 1.1 Nevada 0.0 1.1 8.6 1.6 1.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Harpshire 0.1 0.2 0.0 0.6 0.6 New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 0.2 0.2 0.2 North Dakota 0.1 0.2 0.2 0.2 0.2 North Dakota 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2		0.0	0.5	0.0	0.0	0.0	4.5
Michigan 0.1 0.3 0.0 1.1 1.1 Minesola 0.1 0.4 8.2 8.1 8.2 Mississippi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.5 0.1 0.4 0.4 Missouri 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.5 0.1 0.4 0.4 Nebraska 0.0 0.1 0.0 0.8 1.1 Nevada 0.0 1.1 8.6 1.6 1.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Jersey. 0.1 0.2 3.4 0.0 1.3 1.4 New York. 0.1 0.2 2.3 40.2 0.2							4.5 0.8
Minesota 0.1 0.4 8.2 8.1 8.2 Mississippi 0.0 0.2 0.1 0.3 0.3 Missouri 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.4 0.0 0.8 1.1 Nebraska 0.0 0.1 0.0 0.0 0.0 Nevada 0.0 1.1 8.6 1.6 1.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Hexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 40.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Dakota 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.1 0.1 0.1 0.9 1.0 Rhode Island 0.1 0.1							7.7
Mississippi 0.0 0.2 0.1 0.3 0.3 Missouri. 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.4 0.0 0.8 1.1 Nebraska 0.0 0.1 0.0 0.0 0.0 Nevada 0.0 1.1 8.6 1.6 1.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Hampshire 0.1 0.3 0.8 0.7 0.8 New Hampshire 0.1 0.3 0.8 0.7 0.8 New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 40.2 0.2 North Carolina 0.0 0.3 0.0 0.2 <							17.9
Nesouri. 0.1 0.5 0.1 0.4 0.4 Montana 0.1 0.4 0.0 0.8 1.1 Nebraska 0.0 0.1 0.0 0.0 0.0 Nevada 0.0 1.1 8.6 1.6 1.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Jersey. 0.1 0.3 0.8 0.7 0.8 New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 40.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Dakota 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.1 1.1 1.4 0.8 0.9 Oregon 0.1 0.2 0.0 0.3 0.3 0.3 Oregon 0.1 0.1 0.1 0.1 0.1 0.1 0.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>5.6</td></t<>							5.6
Montana 0.1 0.4 0.0 0.8 1.1 Nebraska 0.0 0.1 0.0 0.0 0.0 Nevada 0.0 1.1 8.6 1.6 1.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Jersey. 0.1 0.3 0.8 0.7 0.8 New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 40.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Carolina 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.0 0.3 0.3 0.3 Okahoma 0.1 0.2 0.0 0.3 0.3 0.3 Okahoma 0.1 0.4 0.7 0.8 0.8 0.8 Pennsylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island	pr						
Nebraska 0.0 0.1 0.0 0.0 0.0 Nevada 0.0 1.1 8.6 1.6 1.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Jersey. 0.1 0.3 0.8 0.7 0.8 New Mexico 0.2 3.4 0.0 1.3 1.4 New York. 0.1 0.2 2.3 40.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Dakota 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.0 0.3 0.3 Oklahoma 0.1 1.1 1.4 0.8 0.9 Oregon 0.1 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.1 0.1 0.1 South Carolina 0.0 0.2 0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.1</td>							3.1
Nevada 0.0 1.1 8.6 1.6 1.6 New Hampshire 0.1 0.2 0.0 0.6 0.6 New Jersey 0.1 0.3 0.8 0.7 0.8 New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 40.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Carolina 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.0 0.3 0.3 Oregon 0.1 1.1 1.4 0.8 0.9 Pennsylvania 0.1 0.4 0.7 0.8 0.8 South Carolina 0.0 0.2 0.0 0.1 0.1 South Carolina 0.0 0.2 0.0							1.0
New Hampshire 0.1 0.2 0.0 0.6 0.6 New Jersey. 0.1 0.3 0.8 0.7 0.8 New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 40.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Dakota 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.0 0.3 0.3 Oregon 0.1 1.1 1.4 0.8 0.9 Pennsylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.3 0.0 50.1 50.2 Tennessee 0.0 0.2							1.6
New Jersey 0.1 0.3 0.8 0.7 0.8 New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 40.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Dakota 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.0 0.3 0.3 Oklahoma 0.1 1.1 1.4 0.8 0.9 Oregon 0.0 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.0 0.2 0.0 0.1 0.1 South Carolina 0.0 0.2 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.7</td>							7.7
New Mexico 0.2 3.4 0.0 1.3 1.4 New York 0.1 0.2 2.3 ⁴ 0.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Carolina 0.1 0.2 0.2 0.2 0.2 North Dakota 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.0 0.3 0.3 Oklahoma 0.1 1.1 1.4 0.8 0.9 Oregon 0.0 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.3 0.0 1.0 1.1 South Carolina 0.0 0.2 0.0 0.1 0.1 South Carolina 0.0 0.2 0.0 0.2 0.2 Tennessee 0.1 0.1	npsnire	0.1	0.2	0.0	0.6	0.6	4.2
New York 0.1 0.2 2.3 ⁴ 0.2 0.2 North Carolina 0.0 0.3 0.0 0.2 0.2 North Dakota 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.0 0.3 0.3 Oklahoma 0.1 1.1 1.4 0.8 0.9 Oregon 0.0 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.3 6.0 1.7 1.8 South Carolina 0.0 0.2 0.0 0.1 0.1 South Dakota 0.0 0.2 0.0 0.2 0.2 Tennessee 0.1 ⁶ 1.2 1.1 1.1 1.1 Utah 0.1	sey	0.1	0.3	0.8	0.7	0.8	5.8
North Carolina 0.0 0.3 0.0 0.2 0.2 0.2 North Dakota 0.1 0.2 0.2 0.5 0.9 0 Ohio 0.1 0.2 0.2 0.5 0.9 0 Ohio 0.1 1.1 0.2 0.0 0.3 0.3 Oklahoma 0.1 1.1 1.4 0.8 0.9 Oregon 0.0 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.3 6.0 1.7 1.8 South Carolina 0.0 0.2 0.0 0.1 0.1 South Dakota 0.0 0.3 0.0 ⁵ 0.1 ⁵ 0.2 Tennessee 0.0 0.2 0.0 0.2 0.2 Texas 0.1 0.3 0.1 0.7 0.7 Vermont 0.3 0.3 0.3 0.9 0.5	xico	0.2	3.4	0.0	1.3	1.4	8.8
North Dakota 0.1 0.2 0.2 0.5 0.9 Ohio 0.1 0.2 0.0 0.3 0.3 Oklahoma 0.1 1.1 1.4 0.8 0.9 Oregon 0.0 0.4 0.7 0.8 0.8 Pensylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.3 6.0 1.7 1.8 South Carolina 0.0 0.2 0.0 0.1 0.1 South Dakota 0.0 0.2 0.0 0.1 0.1 South Dakota 0.0 0.3 0.0 ⁵ 0.1 ⁵ 0.2 Tennessee 0.0 0.2 0.0 0.2 0.2 0.2 Texas 0.1 ⁶ 1.2 1.1 1.1 1.1 Utah 0.1 0.3 0.3 0.3 0.9 0.5	k	0.1	0.2	2.3	⁴ 0.2	0.2	5.9
Ohio. 0.1 0.2 0.0 0.3 0.3 Oklahoma. 0.1 1.1 1.4 0.8 0.9 Oregon 0.0 0.4 0.7 0.8 0.8 Pennsylvania. 0.1 0.4 0.7 0.8 0.8 Pennsylvania. 0.1 0.4 0.1 0.9 1.0 Rhode Island. 0.1 0.3 6.0 1.7 1.8 South Carolina. 0.0 0.2 0.0 0.1 0.1 South Carolina. 0.0 0.2 0.0 0.1 0.1 South Carolina. 0.0 0.3 0.0 50.1 50.2 Tennessee 0.0 0.2 0.0 0.2 0.2 Texas 0.1 61.2 1.1 1.1 Utah 0.1 0.3 0.3 0.3 0.9 0.5 Vermont. 0.3 0.3 0.3 0.9 0.5 0.0 0.0	arolina	0.0	0.3	0.0	0.2	0.2	2.3
Oklahoma. 0.1 1.1 1.4 0.8 0.9 Oregon 0.0 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.4 0.1 0.9 1.0 South Carolina 0.0 0.2 0.0 0.1 0.1 South Carolina 0.0 0.3 0.0 ⁵ 0.1 ⁵ 0.2 Tennessee 0.0 0.2 0.0 0.2 0.2 0.2 Texas 0.1 ⁶ 1.2 1.1 1.1 1.1 Utah 0.1 0.3 0.1 0.7 0.7 Vermont 0.3 0.3 0.3 0.9 0.5 Virginia 0.1 0.2 0.0 0.0 0.0	akota	0.1	0.2	0.2	0.5	0.9	2.9
Oklahoma. 0.1 1.1 1.4 0.8 0.9 Oregon 0.0 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.4 0.1 0.9 1.0 South Carolina 0.0 0.2 0.0 0.1 0.1 South Carolina 0.0 0.3 0.0 ⁵ 0.1 ⁵ 0.2 Tennessee 0.0 0.2 0.0 0.2 0.2 0.2 Texas 0.1 ⁶ 1.2 1.1 1.1 1.1 Utah 0.1 0.3 0.1 0.7 0.7 Vermont 0.3 0.3 0.3 0.9 0.5 Virginia 0.1 0.2 0.0 0.0 0.0		0.1	0.2	0.0	0.3	0.3	3.2
Oregon 0.0 0.4 0.7 0.8 0.8 Pennsylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.3 6.0 1.7 1.8 South Carolina 0.0 0.2 0.0 0.1 0.1 South Carolina 0.0 0.2 0.0 0.1 0.1 South Carolina 0.0 0.2 0.0 0.1 0.1 South Dakota 0.0 0.3 0.0 ⁵ 0.1 ⁵ 0.2 Tennessee 0.0 0.2 0.0 0.2 0.2 Texas 0.1 ⁶ 1.2 1.1 1.1 Utah 0.1 0.3 0.1 0.7 0.7 Vermont 0.3 0.3 0.3 0.9 0.5 Virginia 0.1 0.2 0.0 0.0 0.0							1.7
Pensylvania 0.1 0.4 0.1 0.9 1.0 Rhode Island 0.1 0.3 6.0 1.7 1.8 South Carolina 0.0 0.2 0.0 0.1 0.1 South Carolina 0.0 0.2 0.0 0.1 0.1 South Dakota 0.0 0.3 0.0 ⁵ 0.1 ⁵ 0.2 Tennessee 0.0 0.2 0.0 0.2 0.2 Texas 0.1 ⁶ 1.2 1.1 1.1 Utah 0.1 0.3 0.3 0.3 0.9 0.5 Vermont 0.1 0.2 0.0 0.0 0.0 0.0							1.9
Rhode Island. 0.1 0.3 6.0 1.7 1.8 South Carolina. 0.0 0.2 0.0 0.1 0.1 South Carolina. 0.0 0.2 0.0 0.1 0.1 South Dakota 0.0 0.3 0.0 ⁵ 0.1 ⁵ 0.2 Tennessee 0.0 0.2 0.0 0.2 0.2 Texas 0.1 ⁶ 1.2 1.1 1.1 Utah 0.1 0.3 0.3 0.1 0.7 0.7 Vermont 0.3 0.3 0.3 0.9 0.5 Virginia 0.1 0.2 0.0 0.0 0.0							11.1
South Carolina 0.0 0.2 0.0 0.1 0.1 South Dakota 0.0 0.3 0.0 ⁵ 0.1 ⁵ 0.2 Tennessee 0.0 0.2 0.0 0.2 0.2 Texas 0.1 ⁶ 1.2 1.1 1.1 Utah 0.1 0.3 0.3 0.1 0.7 0.7 Vermont 0.3 0.3 0.3 0.3 0.9 0.5 Virginia 0.1 0.2 0.0 0.0 0.0 0.0							13.2
South Dakota 0.0 0.3 0.0 ⁵ 0.1 ⁵ 0.2 Tennessee 0.0 0.2 0.0 0.2 0.2 Texas 0.1 ⁶ 1.2 1.1 1.1 Utah 0.1 0.3 0.3 0.1 0.7 0.7 Vermont 0.3 0.3 0.3 0.3 0.9 0.5 Virginia 0.1 0.2 0.0 0.0 0.0					0.1		1.6
Tennessee 0.0 0.2 0.0 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.9 0.5 Virginia 0.0 0.0 0.0 0.0 0.0 0.0					⁵ 0.1		1.1
Texas 0.1 ⁶ 1.2 1.1 1.1 Utah 0.1 0.3 0.1 0.7 0.7 Vermont 0.3 0.3 0.3 0.9 0.5 Virginia 0.1 0.2 0.0 0.0 0.0	90						9.3
Utah 0.1 0.3 0.1 0.7 0.7 Vermont 0.3 0.3 0.3 0.9 0.5 Virginia 0.1 0.2 0.0 0.0 0.0							12.6
Vermont. 0.3 0.3 0.3 0.9 0.5 Virginia 0.1 0.2 0.0 0.0 0.0			0.3				4.1
Virginia 0.1 0.2 0.0 0.0 0.0							2.7
0							2.7 3.6
Washington				12.7	2.5	0.0 9.7	23.8
Washington 0.5 0.6 12.7 2.5 9.7 West Virginia 0.1 0.3 1.9 0.8 1.4							23.0 9.1
Wisconsin							2.2
Wyoming							1.8
Puerto Rico							0.1
Virgin Islands							16.2
Guam							4.8
American Samoa		-					
Commonwealth of the		0.6	4.5		50.0	50.0	
Northern Marianas Islands 0.6 1.5 ⁵ 0.6 ⁵ 0.6	Mananas Islanos	0.0	1.5		°U.6	°U.b	

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 2001-Con.

[By place of residence]

Area	Obstetric procedures	Complications of labor and/or delivery	Method of delivery	Abnormal conditions of newborn	Congenital anomalies
otal of reporting areas ¹	0.5	0.6	0.5	1.0	0.9
Nabama	0.0	0.0	0.4	0.0	0.0
Navama	2.6	2.8	0.4	2.3	2.2
					¹¹ 0.3
rizona	0.0	0.0	0.4	0.0	
rkansas	0.1	0.1	0.3	0.1	0.1
alifornia	0.0	0.0	0.0	0.0	0.0
Colorado	0.0	0.0	-	0.0	0.2
onnecticut	2.3	2.1	0.6	2.7	2.8
elaware	0.0	_	0.0	0.0	-
istrict of Columbia	-	_	0.1	0.0	-
lorida	0.0	0.0	0.7	0.0	0.0
				0.0	0.0
	0.0	0.0	0.5		
	0.2	0.3	0.4	0.2	0.2
	0.3	0.4	0.5	0.6	0.7
inois	0.0	0.0	0.4	0.0	0.1
diana	0.0	0.1	0.5	0.1	0.1
wa	0.0	0.1	0.5	0.0	0.1
ansas	0.1	0.1	0.3	0.2	0.2
ientucky	2.5	4.7	3.2	6.8	5.5
ouisiana	0.1	0.1	0.2	0.0	0.0
laine	0.0	0.1	0.2	0.1	0.1
laryland	0.0	0.0	0.2	0.0	0.0
lassachusetts	0.5	0.5	0.6	0.6	0.9
(ichigan	0.0	0.0	0.4	0.0	0.0
linnesota	6.4	8.1	2.6	9.2	9.2
1ississippi	0.0	0.1	0.3	0.0	0.0
Aissouri	0.1	0.1	0.6	0.1	0.1
Nontana	0.0	0.0	0.3	0.0	0.0
lebraska	0.0	0.1	0.3	⁷ 0.0	0.0
	1.5	4.1	1.2	3.1	7.8
lew Hampshire	0.0	0.0	0.4	0.0	0.1
lew Jersey	0.1	0.6	0.6	4.3	2.1
lew Mexico	0.0	0.0	0.5	0.0	
lew York	0.3	0.5	0.4	⁸ 2.3	2.2
lorth Carolina	0.0	0.0	0.5	0.0	0.0
lorth Dakota	0.2	0.1	1.8	0.2	0.2
Dhio	0.0	0.0	0.6	0.0	0.0
			1.6	2.9	¹¹ 3.0
Nahoma	1.3	1.6			
	0.0	0.0	0.5	0.0	0.0
	0.0	0.0	0.0	0.1	0.0
hode Island	6.2	6.0	0.4	10.8	10.9
outh Carolina	0.0	0.0	0.7	0.0	0.0
outh Dakota	-	0.0	0.3	0.0	0.0
ennessee	0.0	0.0	0.5	0.0	0.0
exas	0.0	⁹ 0.0	0.7	70.0	0.1
tah	0.0	0.0	0.0	0.1	0.1
ermont	0.3	0.3	0.1	0.3	0.3
	0.0	0.0	0.3	0.2	0.0
	10.1	11.9	0.4	12.4	12.5
/est Virginia	0.2	1.0	0.3	3.1	0.7
lisconsin	0.0	0.1	0.0	¹⁰ 0.1	0.1
/yoming	-	-	0.0	-	0.0
uerto Rico	0.1	0.1	0.0	0.0	0.1
irgin Islands	1.4	2.9	0.9	4.4	3.8
Suam	1.1	3.2	0.4	2.3	2.2
merican Samoa		0.2	0.4	2.0	
commonwealth of the					
lorthern Marianas Islands			1.6		
			1 h		

0.0 Quantity more than zero but less than 0.05. --- Data not available. - Quantity zero.

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

²California reports date last normal menses began but does not report clinical estimate of gestation. ³Kansas does not report Rh sensitization.

⁴Indiana and New York State report tobacco use but do not report the average number of cigarettes smoked per day in standard categories; data for New York City are reported in standard categories.

⁵South Dakota and the Commonwealth of the Northern Marianas report tobacco and alcohol use but do not report the average number of cigarettes smoked per day or the average number of drinks per week. ⁶Texas does not report genital herpes and uterine bleeding. ⁷Nebraska and Texas do not report birth injury.

⁸New York City does not report assisted ventilation less than 30 minutes and assisted ventilation of 30 minutes or more.

⁹Texas does not report anesthetic complications and fetal distress. ¹⁰Wisconsin does not report fetal alcohol syndrome.

¹¹Rates of "Other central nervous system anomalies" may be overstated for Arizona and Oklahoma for 2001.

38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply)	 COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply) 	43. CONGENITAL ANOMALIES OF CHILD (Check all that apply)
Anemia (Hct. <30/Hgb. <10)	Februle (> 100 °F. or 38 °C.) 01 Meconium, moderate/heavy 02 Premature rupture of membrane (>12 hours) 03 Abruptio placenta 04 Placenta previa 05 Other excessive bleeding 06 Seizures during labor 07 Precipitous labor (>3 hours) 08 Prolonged labor (>20 hours) 09 Dysfunctional labor 10 Breech/Malpresentation 11 Cord prolapse 13 Anesthetic complications 14 Fetal distress 15 None 00 Other 16	Anencephalus 01 Spina bifida/Meningocele 02 Hydrocephalus 03 Microcephalus 04 Other central nervous system anomalies 05 (Specify) 05 Heart malformations 06 Other circulatory/respiratory anomalies 07 Rectal atresia/stenosis 08 Tracheo-esophageal fistula/ Esophageal atresia 09 Omphalocele/ Gastroschisis 10 Other gastrointestinal anomalies 12 Malformed genitalia 12 Renal agenesis 13
(Specify)	41. METHOD OF DELIVERY (Check all that apply)	Other urogenital anomalies (Specify)14
38b. OTHER RISK FACTORS FOR THIS PREGNANCY (Complete all items) Tobacco use during pregnancy	Vaginal 01 Vaginal birth after previous C-section 02 Primary C-section 03 Repeat C-section 04 Forceps 05 Vacuum 06	Cleft lip/palate
Weight gained during pregnancy lbs. 39. OBSTETRIC PROCEDURES (Check all that apply) Amniocentesis	42. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply) Anemia (Hct. < 39/Hgb. < 13)	(Specify) 19 Down's syndrome 20 Other chromosomal anomalies 21 None 00 Other 22 (Specify) 22
Tocolysis 05 Ultrasound 06 None 00 Other 07 (Specify)	Assisted ventilation ≥ 30 min 07 □ Assisted ventilation ≥ 30 min 07 □ Seizures 08 □ None 00 □ Other 09 □ (Specify) 09 □	

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

Population denominators

Birth and fertility rates for 2001 shown in tables 1, 3–6, 8, 9, 13, 14, A, and B are based on populations projected from the 1990 Census, estimated as of July 1, 2001. These populations are shown in tables II and III. The population estimates have been provided by the U.S. Bureau of the Census (7) and are based on the 1990 census counts by age, race, and sex, 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 (137).

The U.S.- and State-level birth and fertility rates in this report are based on estimates projected from the 1990 census because detailed populations based on the 2000 census were not available when this report was prepared. As a result, rates are generally larger than would be the case if 2000-based estimates were used. The magnitude of the overestimate will vary by population subgroup; overestimates are likely greatest for those of Hispanic origin. A comparison of the estimates for the total population based on the 1990 and 2000 censuses show that the total 2001 population used in this report is 2.5 percent lower than the estimated population based on the 2000 census (138). A comparison of summary 2000 census results and the estimates for 2000 used in the 2000 report indicates that the total U.S. Hispanic population used for the 2000 report is 8 percent lower than the population based

on the 2000 census (5–7). The underestimate for Hispanic women 15–44 years of age is 9.5 percent (compared with an underestimate of 2 percent for all women 15–44 years of age). Therefore, the birth and fertility rates for Hispanic women presented here are overstated because the population base is too small. There may be similar, but less pronounced effects for other population groups. Comparison between rates for the current year and for 2000, which also uses population denominators based on the 1990 census, should be affected only marginally when more accurate denominators for the 2000 census are used. Comparisons with rates for the early 1990s will be more affected. Revised rates based on the 2000 census will be presented in a forthcoming report planned for early 2003.

Rates for Hispanic subgroups for 2001 are not shown because the special population estimates for these groups, based on the 1990 census, are not available.

Birth and fertility rates by State shown in table 10 are based on State-level population estimates projected from the 1990 census provided by the U.S. Bureau of the Census that are consistent with the U.S. populations (139). 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 2001 estimates (from the 1990 census). Rates for unmarried women shown in tables 17 and 18 are based on distributions of the population by marital status as of March

Table II. Estimated total population by race, and estimated female population by age and race: United States, 2001

[Populations estimated as of July 1]

Age	All races	White	Black	American Indian	Asian or Pacific Islander
Total population	277,739,757	227,871,696	35,756,802	2,475,455	11,635,804
Female population					
15–44 years	60,139,584	47,937,842	8,723,292	591,092	2,887,358
0–14 years	9,880,471	7,727,436	1,597,050	124,733	431,252
5–19 years	9,742,425	7,686,099	1,513,573	120,207	422,546
15–17 years	5,760,522	4,538,264	895,077	73,360	253,821
18–19 years	3,981,903	3,147,835	618,496	46,847	168,725
0-24 years	9,298,249	7,342,201	1,439,985	105,013	411,050
5–29 years	8,724,955	6,827,902	1,320,214	93,755	483,084
0-34 years	9,905,270	7,855,968	1,412,512	91,006	545,784
5–39 years	10,949,346	8,812,256	1,524,550	90,394	522,146
0-44 years	11,519,339	9,413,416	1,512,458	90,717	502,748
5–49 years	10,393,696	8,572,211	1,300,698	78,420	442,367

NOTE: These population counts are projected from the 1990 census; see Technical Notes.

SOURCE: U.S. Census Bureau. See reference 7.

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, 2001

[Populations estimated as of July 1]

	Hispanic					Non-Hispanic		
Age	Total	Mexican	Puerto Rican	Cuban	Other Hispanic ¹	Total ²	White	Black
Total population	33,580,089					244,159,668	197,247,498	33,867,772
15–44 years	7,915,469					52,224,115	40,737,072	8,272,507
10–14 years	1,485,159					8,395,312	6,381,537	1,510,992
15–19 years	1,404,972					8,337,453	6,409,702	1,435,133
15–17 years	827,199					4,933,323	3,788,153	848,462
18–19 years	577,773					3,404,130	2,621,549	586,671
20–24 years	1,389,655					7,908,594	6,073,152	1,364,829
25–29 years	1,303,247					7,421,708	5,637,565	1,249,912
30–34 years	1,321,283					8,583,987	6,656,246	1,335,639
35–39 years	1,320,324					9,629,022	7,614,051	1,444,897
40–44 years	1,175,988					10,343,351	8,346,356	1,442,097
45–49 years	940,263					9,453,433	7,718,844	1,244,594

- - - Data not available.

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

²Includes races other than white and black.

NOTE: These population counts are projected from the 1990 census; see Technical Notes.

SOURCE: U.S. Census Bureau. See reference 7.

2001 provided by the U.S. Bureau of the Census (30) which have been adjusted to July 2001 population levels (7) by the Division of Vital Statistics, NCHS (31,134). The 2001 population levels are consistent with the 1990 census. 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, 2001 (7).

Computation of rates

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

In computing birth and fertility rates for the Hispanic population, births with origin of mother not stated are included with non-Hispanic births rather than being distributed. Thus, rates for the U.S. Hispanic population are underestimates of the true rates to the extent that the births with origin of mother not stated (0.6 percent) were actually to Hispanic mothers (see table I). In computing the rates, the census-based populations with origin not stated are imputed. The effect on the rates is believed to be small.

Age of father—Information on age of father is often missing on birth certificates of children born to unmarried women (table I). In computing birth rates by age of father, births where age of father is not stated are distributed in the same proportions as births with known age within each 5-year-age classification of mother. This procedure is followed because, while father's age is missing on 13 percent of all birth certificates, the age is missing from more than a third of 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, 6, and 11 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 aged 40–44 years experienced the most change of any group over the period, and also that they had the greatest increase in rates since 1985.

Random variation and significance testing for natality data

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

When the number of births is used for analytic purposes (that is, the comparison of numbers, rates, and percents over time, for different areas, or between different groups), the number of events that *actually* occurred can be thought of as one outcome in a large series of possible results that *could have* occurred under the same (or similar) circumstances. When considered in this way, the number of births is subject to random variation and a probable range of values estimated from the actual figures, according to certain statistical assumptions.

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

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

When the number of vital events is large, the distribution is assumed to follow a normal distribution (where the relative standard error is small). When the number of events is small and the probability of the event is small, the distribution is assumed to follow a Poisson probability distribution. Considerable caution should be observed in interpreting the occurrence of infrequent events.

95-percent confidence limits for numbers less than 100

When the number of births is less than 100 and the rate is small, the data are assumed to follow a Poisson probability distribution (140). Confidence limits are estimated using the following formulas:

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

B = number of births

L = value in table IV that corresponds to the number of events BU = value in table IV that corresponds to the number of events B

Example

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

= 63

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

95-percent confidence limits for numbers of 100 or more

When the number of events is greater than 100, the data are assumed to approximate a normal distribution. Formulas for 95-percent confidence limits are:

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

where

B = number of births

Example

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

Lower limit =
$$14,108 - (1.96 \times \sqrt{14,108})$$

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

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

Computing confidence intervals for rates

The same statistical assumptions can be used to estimate the variability in birth rates. Again, one formula is used for rates based on numbers of events less than 100, and another formula for rates based on numbers of 100 or greater. For our purposes, assume that the denominators of these rates (the population estimates) have no error. While this assumption is technically correct *only* for denominators based on the census that occurs every 10 years, the error in intercensal population estimates is usually small, difficult to measure,

Ν	L	U	Ν	L	U
	0.02532	5.57164	51	0.74457	1.31482
	0.12110	3.61234	52	0.74685	1.31137
	0.20622	2.92242	53	0.74907	1.30802
	0.27247	2.56040	54	0.75123	1.30478
	0.32470	2.33367	55	0.75334	1.30164
	0.36698	2.17658	56	0.75539	1.29858
	0.40205	2.06038	57	0.75739	1.29562
	0.43173	1.97040	58	0.75934	1.29273
	0.45726	1.89831	59	0.76125	1.28993
	0.47954	1.83904	60	0.76311	1.28720
	0.49920	1.78928	61	0.76492	1.28454
		1.74680			1.28195
	0.51671		62	0.76669	
	0.53246	1.71003	63	0.76843	1.27943
	0.54671	1.67783	64	0.77012	1.27698
	0.55969	1.64935	65	0.77178	1.27458
	0.57159	1.62394	66	0.77340	1.27225
	0.58254	1.60110	67	0.77499	1.26996
	0.59266	1.58043	68	0.77654	1.26774
	0.60207	1.56162	69	0.77806	1.26556
	0.61083	1.54442	70	0.77955	1.26344
	0.61902	1.52861	71	0.78101	1.26136
	0.62669	1.51401	72	0.78244	1.25933
	0.63391	1.50049	73	0.78384	1.25735
	0.64072	1.48792	74	0.78522	1.25541
	0.64715	1.47620	75	0.78656	1.25351
	0.65323	1.46523	76	0.78789	1.25165
	0.65901	1.45495	77	0.78918	1.24983
	0.66449	1.44528	78	0.79046	1.24805
	0.66972	1.43617	79	0.79171	1.24630
	0.67470	1.42756	80	0.79294	1.24050
	0.67945	1.41942		0.79414	1.24459
			81		
	0.68400	1.41170	82	0.79533	1.24126
	0.68835	1.40437	83	0.79649	1.23965
	0.69253	1.39740	84	0.79764	1.23807
	0.69654	1.39076	85	0.79876	1.23652
	0.70039	1.38442	86	0.79987	1.23499
	0.70409	1.37837	87	0.80096	1.23350
	0.70766	1.37258	88	0.80203	1.23203
	0.71110	1.36703	89	0.80308	1.23059
	0.71441	1.36172	90	0.80412	1.22917
	0.71762	1.35661	91	0.80514	1.22778
	0.72071	1.35171	92	0.80614	1.22641
	0.72370	1.34699	93	0.80713	1.22507
	0.72660	1.34245	94	0.80810	1.22375
	0.72941	1.33808	95	0.80906	1.22245
	0.73213	1.33386	96	0.81000	1.22117
	0.73476	1.32979	97	0.81093	1.21992
	0.73732	1.32585	98	0.81185	1.21868
		1.32205	90	0.81275	1.21746
	0.73981 0.74222	1.32205	JJ	0.012/5	1.21/40

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

and therefore not considered. (See however, discussion of "population denominators" earlier in the Technical Notes.)

Lower limit = $R \times L$

Upper limit = $R \times U$

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

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

R = birth rate

L = value in table IV that corresponds to the number of events BU = value in table IV that corresponds to the number of events B

Example

where

Suppose that the first birth rate for American Indian women 40–44 years of age was 0.50 per thousand, based on 47 births in the numerator. Using table IV:

Lower limit = 0.50 x 0.73476 = 0.37

Upper limit = 0.50 x 1.32979 = 0.66

This means that the chances are 95 out of 100 that the actual first birth rate for American Indian women 40–44 years of age lies between 0.37 and 0.66.

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

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

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

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

where

R = the birth rate B = the number of births

Example

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

Lower limit =
$$1.55 - [1.96 \times (1.55 / \sqrt{14,108})]$$

= $1.55 - 0.026$
= 1.52
Upper limit = $1.55 + [1.96 \times (1.55 / \sqrt{14,108})]$
= $1.55 + 0.026$
= 1.58

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

Computing 95-percent confidence intervals for percents

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

 $B \ge 5$ and $B \ge 5$

where

B = number of births in the denominator p = percent divided by 100 q = 1 - p

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

Lower limit = $p - [1.96 \times (\sqrt{p \times q/B})]$ Upper limit = $p + [1.96 \times (\sqrt{p \times q/B})]$

where

p = percent divided by 100 q = 1 - pB = number of births in the denominator

Example

Suppose that the percent of births to Hispanic women in Arizona that were to unmarried women was 49.7 percent. This was based on 14,751 births in the numerator and 29,682 births in the denominator. First we test to make sure we can use the normal approximation of the binomial:

29,682 x 0.497 = 14,752 29,682 x (1 - 0.497) = 29,682 x 0.503 = 14,930

Both 14,752 and 14,930 are greater than 5 so we can proceed. The 95-percent confidence interval would be:

Lower limit =
$$0.497 - [1.96 \times (\sqrt{0.497} \times 0.503 / 29,682)]$$

= $0.497 - 0.006$
= 0.491 or 49.1 percent
Upper limit = $0.497 + [1.96 \times (\sqrt{0.497} \times 0.503 / 29,682)]$

= 0.497 + 0.006= 0.503 or 50.3 percent

This means that the chances are 95 out of 100 that the actual percent of births to unmarried Hispanic women in Arizona lies between 49.1 and 50.3 percent.

Significance testing

One or both of the rates is based on fewer than 100 cases

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

Example

Suppose that the first birth rate for American Indian women 40–44 years of age was 0.70 per 1,000 in year X and 0.50 in year Y. Is the rate for year X significantly higher than the rate for year Y? The two rates are based on 63 events in year X and 47 events in year Y. Both rates are based on fewer than 100 events; therefore, the first step is to compute the confidence intervals for both rates.

	Lower Limit	Upper Limit
Year X	0.54 0.37	0.90 0.66

These two confidence intervals overlap. Therefore, the first birth rate for American Indian women 40–44 in year X is not significantly higher (at the 95-percent confidence level) than the rate in year Y.

Both rates are based on 100 or more events

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

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

where

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

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

Example

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

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

= 1.96 x \sqrt{([1.166/1,535] + [2.403/14,108])}
= 1.96 x \sqrt{0.00076 + 0.00017}
= 1.96 x \sqrt{0.00093}
= 1.96 x 0.03
= 0.06

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

Testing differences between two percents

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

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

where

B = number of births in the denominator p = percent divided by 100 q = 1 - p

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

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

where

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

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

 p_1 = the first percent

 p_2 = the second percent

Example

Is the percent of births to Hispanic women that were to unmarried women higher in New Mexico (50.2) than in Arizona (49.7)? Suppose that the number in the denominator was 13,714 in New Mexico and 29,682 in Arizona. The necessary conditions are met for both percents (calculations not shown). The difference between the two percents is .502- .497 = .005. The statistic is then calculated as follows:

$$1.96 \sqrt{0.499(0.501)} (0.000106609) = 1.96 \times \sqrt{0.000026652} \\= 1.96 \times 0.005162563 \\= 0.010$$

The difference between the percents (0.005) is less than this statistic (0.010). Therefore, the difference is not statistically significant at the 95-percent confidence level.

Information on computing confidence intervals for and testing differences between rates for Hispanic subgroups is available elsewhere (4).

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 (141).

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-for-gestational-age infant—Previous birth of an infant prior to term (before 37 completed weeks of gestation) or of an infant weighing less than the 10th percentile for gestational age using a standard weight-for-age chart.

Renal disease-Kidney disease.

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

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

Obstetric procedures

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

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

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.

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 (133); twin births (121); trends in teenage births (9, 142); cesarean deliveries (91), attendant at birth, place of delivery, and obstetric procedures (79, 81); births to unmarried mothers (31); trends in pregnancies and pregnancy rates (10,11), and trends in smoking (48).

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