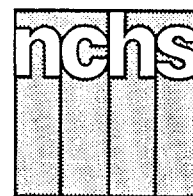


# Monthly Vital Statistics Report



Final Data From the National Center for Health Statistics

## Advance Report of Final Natality Statistics, 1989

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The U.S. Standard Certificate of Live Birth was revised effective with the 1989 data year. This report describes characteristics of births that have been available on previous versions of the birth certificate. Data on all the new topics included on the new certificate are now being tabulated and evaluated. A second Monthly Vital Statistics Report supplement for 1989 birth data will soon be published and will present summary data on all the new topics; these topics are listed in the Technical notes.

### Births and birth rates

The number of babies born in the United States in 1989 totaled 4,040,958, the highest number reported since 1963 (4,098,020) (table 1). The 1989 total was 3 percent higher than the number reported for 1988 (3,909,510). Another 3-percent increase in the number of births is expected for 1990, according to provisional statistics.

The birth rate for 1989 was 16.3 live births per 1,000 population, 3 per-

cent above the level for 1988 (15.9), and higher than in any year since 1971 (17.2). A 2-percent increase in the birth rate is indicated for 1990 according to provisional data.

The fertility rate, which relates the number of births to women of child-bearing age, was 69.2 live births per 1,000 women aged 15–44 years in 1989, 3 percent higher than the rate reported in 1988 (67.2). (See table 1 and figure 1.) Provisional data for 1990 also indicate another 3-percent rise over the 1989 rate.

Age-specific birth rates for women 15–44 years increased by 3 to 8 percent between 1988 and 1989. The largest increases, 6–8 percent, were observed in rates for teenagers and for women 35–44 years. (See tables 2–4 for births and birth rates by age of mother and figure 2 for birth rates by age of mother.)

Birth rates for teenagers increased in 1989 to levels not observed for 15 years. The rate for young teenagers in 1989 was 36.5 per 1,000 women aged 15–17, 8 percent higher than in 1988 (33.8) and 19 percent higher than in 1986 (30.6). To put it another way, if

### Acknowledgments

This report was prepared in the Division of Vital Statistics. Stephanie J. Ventura wrote the report under the supervision of Robert L. Heuser, Chief of the Natality, Marriage, and Divorce Statistics Branch. Thomas Dunn provided statistical tables and content review. Virginia Brainard and Linda Elias provided computer programming support. The Registration Methods Branch and the Technical Services Branch provided consultation to State vital statistics offices regarding collection of the birth certificate data on which this report is based. This report was edited by Demarius V. Miller and typeset by Zung T. N. Le of the Publications Branch, Division of Data Services.



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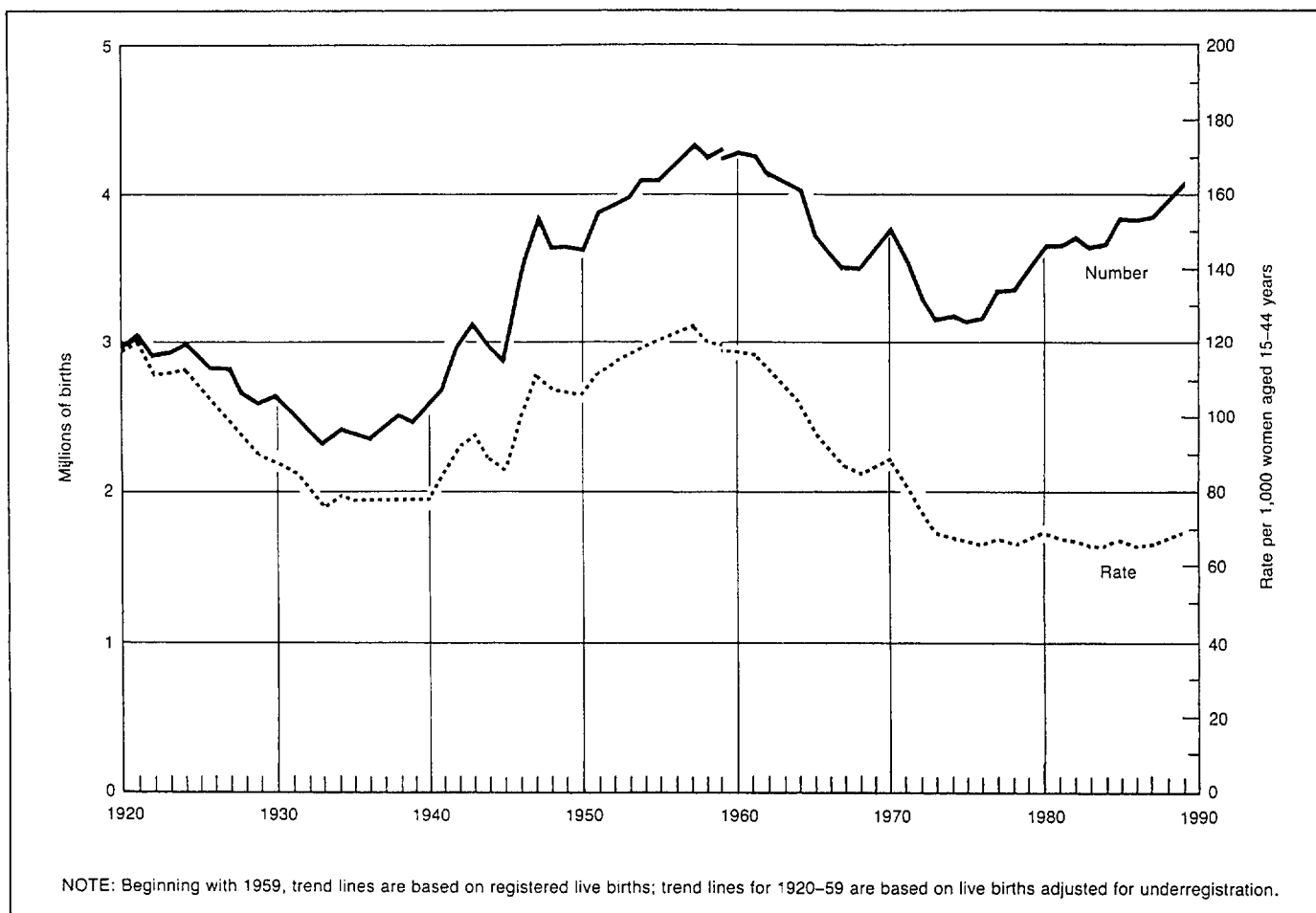


Figure 1. Live births and fertility rates: United States, 1920-89

the 1989 birth rate had been 30.6 instead of 36.5, there would have been about 30,000 fewer births to women aged 15-17.

The birth rate for older teenagers also increased in 1989, by 6 percent, to 86.4 births per 1,000 women aged 18-19. This rate was higher than it has been since 1974 (88.7). From 1976 to 1988, the birth rate for older teenagers had been relatively stable, ranging from 78 to 82 births per 1,000.

The birth rates for women aged 20-24 (115.4) and for women aged 25-29 (116.6) were each higher than in any year since the early 1970's.

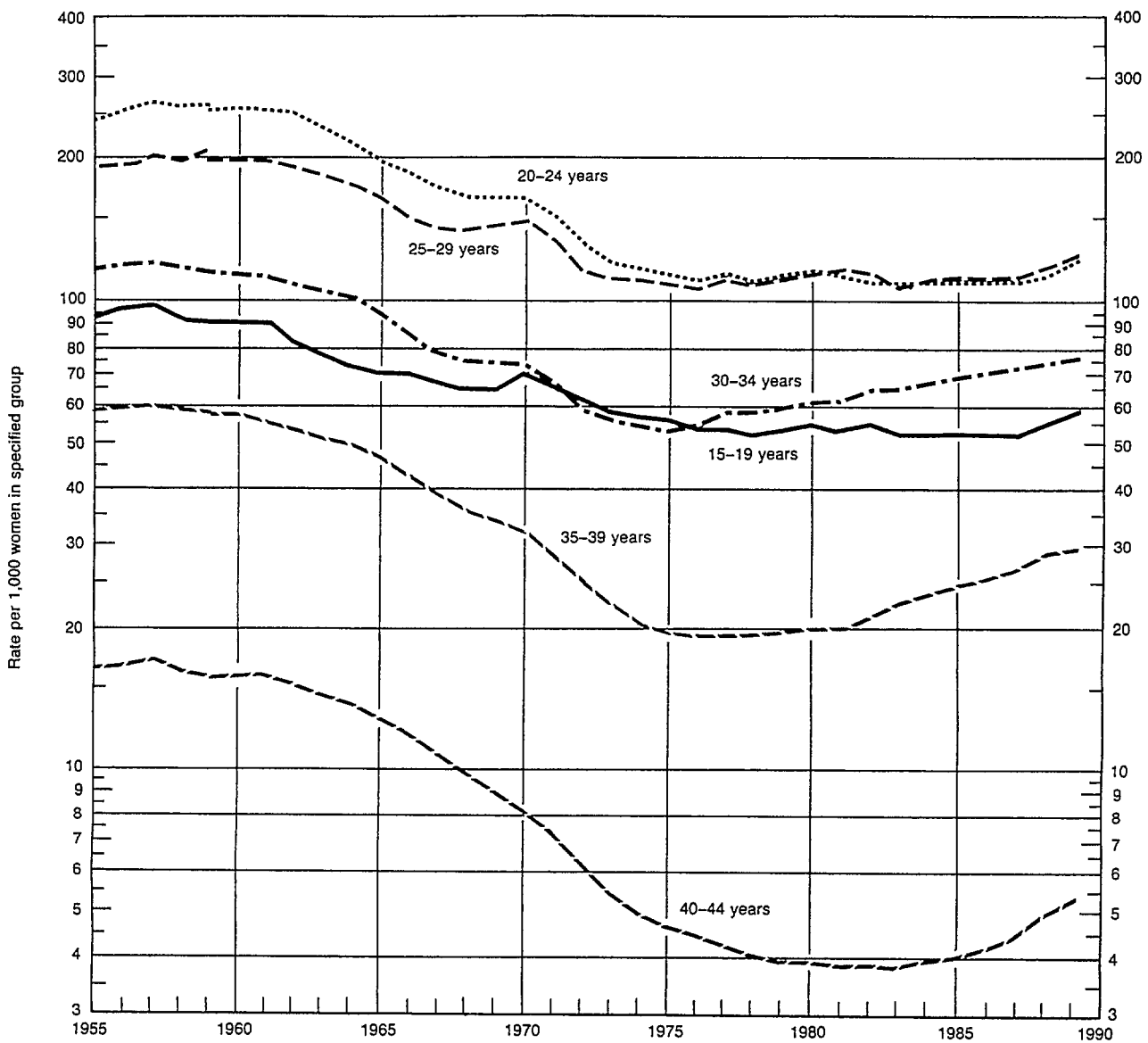
The birth rate for women 30-34 continued to increase in 1989, to 76.2 per 1,000. This rate has risen steadily since the mid-1970's (except in 1981), from a low of 52.3 in 1975 to the 1989 level which is the highest observed since 1967 (78.7). Because the increase in this rate has occurred simultaneously with a sustained growth in the

number of women in their early thirties, the number of births in 1989 to women in this age group, 842,395, was the highest ever reported in the United States. Prior to 1988 (803,547) and 1989, the peak year for the number of births to women aged 30-34 years was 1957 (730,818), but as recently as 1975, births totaled just 375,500 for this age group.

Birth rates for women in age groups 35-39 and 40-44 years increased by 6-8 percent between 1988 and 1989. For both groups, the increases brought the rates to levels not observed for 15 years or more. During the 1980's the rate for women aged 35-39 increased 50 percent, from 19.8 births per 1,000 in 1980 to 29.7 in 1989. The birth rate for women aged 40-44, although still comparatively low, increased to 5.2 births per 1,000 in 1989, 8 percent higher than in 1988 and a third higher than in 1980 (3.9).

The impact of the increasing birth rates for women 35-44 years has been similar to that for women aged 30-34. The rise in the rates has been coupled with a sharp increase in the number of women in these age groups; nearly all of these women were born during the baby-boom years following World War II. The effect of these concurrent patterns has been a substantial increase in the number of births to women 35-44. Births to women 35-39 totaled 293,878 in 1989 compared with a low of 115,409 in 1975. The number for this age group was previously as high in 1964 (309,814). Births to women aged 40-44 totaled 44,401 in 1989 compared with a low of 22,627 in 1978 and the previous high level of 49,952 in 1970.

Increases in birth rates in 1989 appear to reflect some changes in fertility patterns. In recent years, the only groups for whom birth rates were steadily increasing were women aged



NOTE: Beginning with 1959, trend lines are based on registered live births; trend lines for 1955-59 are based on live births adjusted for underregistration.

Figure 2. Birth rates by age of mother: United States 1955-89

30 and older. Rates for women aged 18-29 were relatively stable. These patterns reflected the continued trend of postponed childbearing (1). In 1989 as in 1988, birth rates increased for women in all age groups, but the greatest increases were at the youngest and oldest ages. Because birth rates for women in their twenties, the peak years of childbearing, increased much less, the overall increase in the fertility rate was small.

Since 1986 the continued rise in birth rates for women under 20 years of age is associated with the rise in

the proportion of teenagers, especially young teenagers, who are sexually experienced. Data from the 1988 National Survey of Family Growth indicate a considerable rise in these proportions during the 1980's (2). For example, among women aged 15 years, the proportion rose from 17 percent in 1980 to 26 percent in 1988. Similarly, among those aged 17 years, the proportion rose from 36 percent to 51 percent. An increasing proportion of young teenagers is clearly at risk of becoming pregnant. Data recently reported on abortion rates

indicate little change in these rates among teenagers during the 1980's (3), suggesting their pregnancy rates have risen.

The trend among older, well-educated women to make up previously delayed childbearing has continued to intensify among women aged 35-39 and 40-44, but it has slowed down among those aged 30-34. The first-birth rate for women aged 30-34 increased just 4 percent in 1989, while the first-birth rates for women aged 35-39 and 40-44 increased by 9 and 13 percent, respectively.

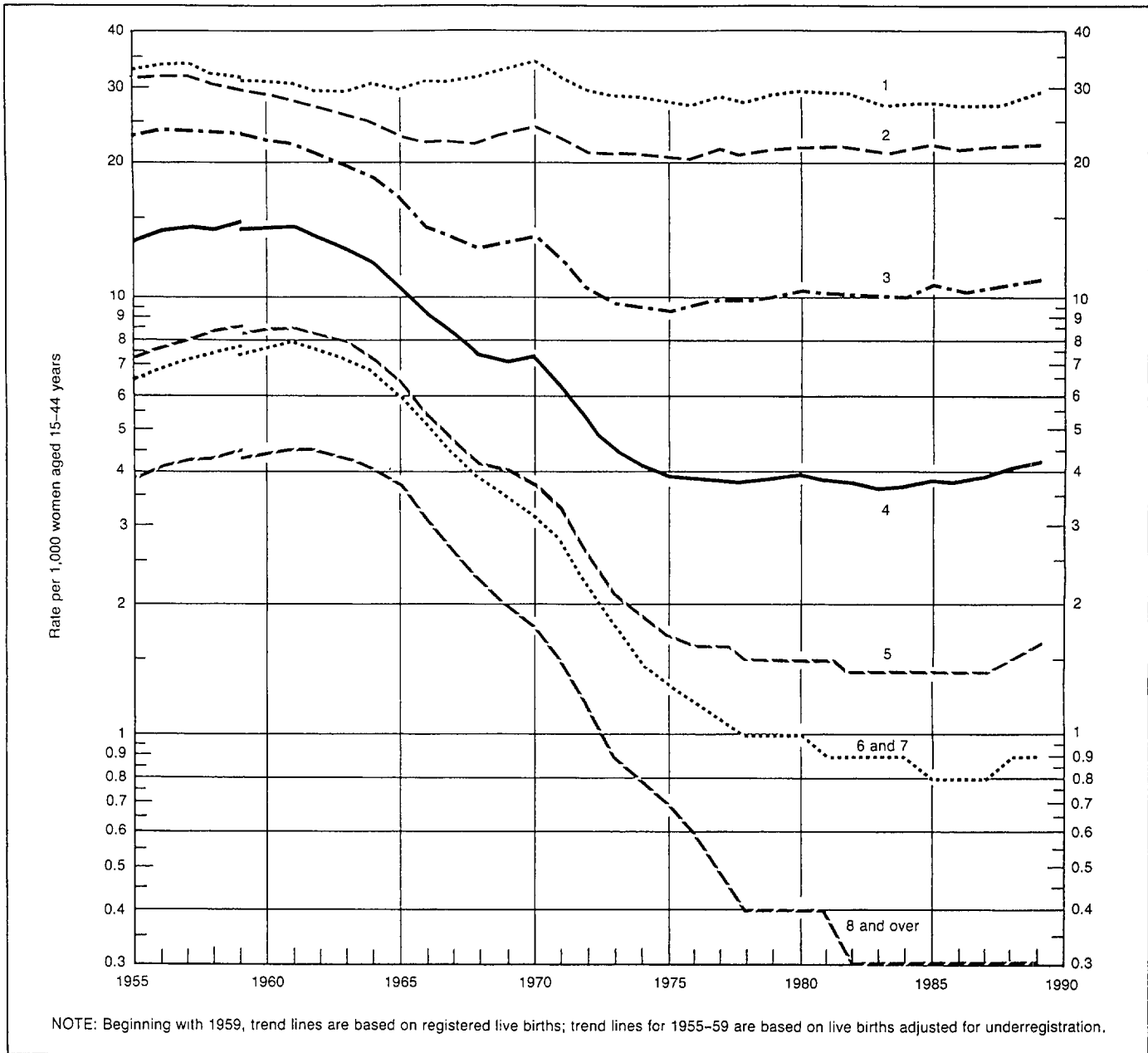


Figure 3. Birth rates by live-birth order: United States, 1955-89

The incidence of childlessness among women in their thirties has increased sharply over the past two decades. For example, among women reaching age 35 by the end of 1989, 20 percent had not had any children compared with just 9 percent of women aged 35 in 1970. Surveys show, however, that half of childless wives aged 30-34 expect to have at least one child (4). Some couples will probably remain childless because of fertility impairments. Although the proportion of older couples with impaired fertility actually declined somewhat during the

1980's (from 48 percent of childless wives aged 35-44 in 1982 to 36 percent in 1988) (5), these proportions applied to a much larger group of women in 1988 than in 1982 (the baby-boom generation), so the number of women with impaired fertility was higher in 1988. It appears that more childless couples with impaired fertility are seeking medical treatment, but it may be more difficult to treat some fertility-impairing conditions among older women (6).

Women delaying childbearing continue to be disproportionately well edu-

cated. Among those aged 30-34 having their first child in 1989, 46 percent were college graduates, compared with 7 percent of women aged 20-24 and 33 percent of women aged 25-29. Previously published reports showed sharp increases between 1975 and 1985 in first-birth rates for well-educated women in their thirties, concurrent with declines in these rates for younger well-educated women (1,7). These patterns corroborate the widely held view that young well-educated women have been delaying childbearing while their older counterparts have been making up for

the childbearing they had previously postponed.

The proportion of all births occurring to teenagers was 13 percent in 1989, as in 1988. Teenage mothers accounted for 19 percent of all births in 1975. Sixty-one percent of mothers giving birth in 1989 were aged 25 and older, a sizable increase compared with the 46-percent level measured in 1975. These shifts in the age distribution of mothers reflect the varying trends in age-specific birth rates as well as the widely varying patterns of change in these population groups. Women aged 15–24 in 1989 were born between 1965 and 1974, a period when the annual number of births fell rapidly. Women aged 25–44 in 1989 are members of the large baby-boom generation. As the smaller group of women under age 25 reaches the peak childbearing years and replaces the large number of women now aged 25–44, the total number of births is likely to stabilize or perhaps decline, unless birth rates for women in their twenties rise substantially. Although a 3-percent rise in the annual number of births is anticipated in 1990 according to provisional statistics, data for the first half of 1991 show a 2-percent decline in the number of births.

Birth rates increased for birth orders from the first through the fifth child. Rates for higher order births were unchanged. The rate for first births increased 3 percent and the rate for second-order births rose 2 percent. Rates for third- through fifth-order births rose by 4, 5, and 7 percent, respectively (tables 3 and 5). This pattern was observed in 1988 as well. Rates by live-birth order had changed little from 1983 to 1987. (See table 5 and figure 3.) The 3-percent rise in the first-birth rate brought the number of first births to a new record level in the United States, 1,648,303.

First-birth rates increased the most for teenagers (5–8 percent) and for women aged 35–44 (9–13 percent). This variation by age was also observed for second-order rates, the second year of such increases. Between 1988 and 1989, first- and second-order rates rose sharply for teenagers 15–17, by 8 and 12 percent, respectively. From 1986

to 1989, these rates increased by 17 and 34 percent, respectively. A comparison of the birth-order specific rates for 1989 with those for 1980 confirms that most of the variation in fertility during the 1980's is attributable to the sizable increases in first- through third-order rates for women aged 30 and older.

*Births by race*—Beginning with the 1989 data year, the tabulation of births by race has changed. In previous years, birth tabulations were by race of child, as determined statistically by an algorithm based on information reported for the mother and father. Briefly, in cases of mixed parentage where only one parent was white, the child was assigned to the other parent's race. When neither parent was white, the child was assigned the race of the father, except if either parent was Hawaiian, the child was assigned to Hawaiian. If race was not reported for one parent, the child was assigned the race of the parent for whom race was given.

Beginning with the 1989 data year, the National Center for Health Statistics (NCHS) is tabulating data on births primarily by race of mother, as reported directly on the birth certificate. This change reflects three significant changes over the past two decades: the topical content of the birth certificate to include considerable health and demographic information related to the mother; the increasing incidence of interracial parentage; and the growing proportion of births for whom no information on the father is reported. These considerations are discussed in greater detail in the Technical notes.

In general, changing the basis for tabulating birth data from race of child to race of mother results in more white births and fewer black births and births of other races. Therefore, population-based rates under the new classification will tend to be higher for births to white mothers and lower for births to black mothers and mothers of other races than they are when computed by race of child.

In order to facilitate continuity with past years' data and analysis of current patterns, key tabulations and text analysis in this and other NCHS reports for

1989 and 1990 births will show data for both race of mother and race of child. This will make it possible to distinguish the effects of this change in tabulation from real changes in the data. In this report, the discussions of changes in various measures between 1989 and previous years are based on measures computed by race of child. Text references to white births and black births refer to births tabulated by race of child. When reference is made to white mothers and black mothers, the basis for tabulation is the race of the mother.

In 1989 the fertility rate for white women was 66.0 live births per 1,000 women aged 15–44 and for black women it was 85.8. These rates are those computed by race of mother. The comparable rates for births classified by race of child were 64.7 for white births and 90.4 for black births. The rate for white births was 3 percent higher than in 1988 (63.0) and the highest it has been since 1980 (also 64.7). The rate for black births was 4 percent above the 1988 level (86.6) and higher than in any year since 1973 (93.6).

All rates by race of child for white and black women in age groups 10–14 through 40–44 increased. The rates rose more for black than for white women aged 18–34; the reverse was true for women aged 17 and under and 35–44 years (tables 3–4).

Birth rates by race of child increased for white women by 1–8 percent in birth orders one through five and for black women by 3–11 percent in birth orders one through seven. Except for fifth-order births, increases in rates for black births were greater than for white births.

Birth rates for first- through third-order births for teenagers increased considerably between 1988 and 1989. Other sizable increases were measured in first-birth rates for women aged 30–34 and 35–39. These patterns were observed for white and black births.

*Total fertility rate*—The total fertility rate indicates the number of births that 1,000 women would have if they experienced during their childbearing years the age-specific birth rates observed in a given calendar year. It is

a hypothetical measure that shows the potential impact of current fertility levels on completed family size. Because the total fertility rate is computed from age-specific birth rates and assumes the same number of women in each age group, it is age-adjusted.

The total fertility rate increased in 1989 to 2,014.0, 4 percent higher than in 1988 (1,932.0) and higher than it has been since 1971 (2,266.5) (table 4). This increase directly reflects the 3–8 percent increases in birth rates for women in 5-year age groups 15–19 through 40–44. The rate of 2,014.0 is 4 percent below the level considered necessary for a given generation to exactly replace itself in the population over the long run (about 2,100). The total fertility rate has been below replacement level since 1972.

The total fertility rate by race of mother for white women was 1,921.5, and for black women it was 2,414.0. Rates for births classified by race of child were 1,885.0, white, and 2,544.5, black. The latter rates were 4 and 6 percent higher, respectively, than the rates in 1988 (1,814.0 and 2,402.0, respectively). In each case the 1989 rates were higher than in any year since the early 1970's.

### Geographic division and State

The number of births increased in all nine geographic divisions in 1989. The largest increases were measured in the Pacific Division (6 percent); the South Atlantic Division (4 percent); and the New England, Middle Atlantic, East North Central, and East South Central Divisions (3 percent each). The numbers rose by just 1 percent in the West North Central, West South Central, and Mountain Divisions. (See table 6 for 1989 data.) Births increased in all but nine States. These nine States were located in the three divisions experiencing the smallest gains in the number of births.

The birth rate per 1,000 population increased 1 percent in the West North Central and West South Central Divisions and increased 3 percent in the New England, Middle Atlantic, East North Central, South Atlantic, East South Central, and Pacific Divi-

sions. There was a 1-percent decline in the Mountain Division. Birth rates rose in 38 States and the District of Columbia, fell in 7 States, and were unchanged in 5 States. Twenty States experienced increases of 1–2 percent and 15 States experienced a 3-percent rise in their rates. Rates rose by 4–6 percent in California, Kentucky, and Michigan and by 14 percent in the District of Columbia.

Changes in the fertility rates (births per 1,000 women aged 15–44 years) were generally similar to those in the birth rates. Fertility rates increased 3 percent in the New England, East North Central, and East South Central Divisions and by 4 percent in the Middle Atlantic, South Atlantic, and Pacific Divisions. An increase of less than 1 percent was measured for the Mountain Division. There were increases of up to 2 percent in 21 States, 3 percent in 9 States, and 4–7 percent in 12 States. The rate increased 17 percent in the District of Columbia. Declines of up to 3 percent were reported for seven States. The rate for North Dakota fell 5 percent.

### Sex ratio

In 1989 the sex ratio at birth was 1,050 males per 1,000 females, the same as in 1987–88. (See table 7.) The ratio has shown very little variation since 1980, ranging from 1,050 to 1,053. The ratio for births to white mothers was 1,053 and for births to black mothers, it was 1,031. Ratios by race of child in 1989 were identical to those by race of mother.

### Month of birth

Monthly birth and fertility rates were higher in every month of 1989 compared with the same month in 1988. The peak months of occurrence were August and September, a pattern that has been observed for many years. The birth and fertility rates for these months were 3–15 percent higher than for any other month in 1989 (table 8).

Removal of the seasonal component from the monthly birth and fertility rates makes it possible to examine the underlying trends. Generally, the seasonally adjusted rates were stable

at a slightly higher level in the second half of 1989 compared with the first half of the year.

### Day of week

The tendency for births to occur more frequently on weekdays than on Saturdays and Sundays continued in 1989. Deliveries were increasingly concentrated on Tuesdays–Fridays with correspondingly fewer occurring on Saturdays and Sundays. (See table 9 for 1989 data.) Births also occur with less frequency on holidays. (Data are not shown in this report.) The index of occurrence of births, defined as the ratio of the average number of births occurring on a given day of the week to the average daily number of births for the year multiplied by 100, can be used to examine the daily pattern of occurrence of births. In 1989, as in previous years, the peak day of occurrence was Tuesday, with an index of 108.9. By contrast, the index for Sunday occurrences was 81.2. In 1989 as in 1988 and 1987, the disparity between Tuesday and Sunday occurrences was 34 percent. From 1980, when this information first became available, to 1987, this differential had increased from 22 percent to 34 percent.

In accounting for this pattern, most attention has focused on the relatively high level of cesarean section deliveries (23.8 percent in 1989) (8). The overall proportion of cesarean sections changed very little during the last few years and the proportion of these that are repeat cesareans has remained high (36 percent in 1989). Physicians would be unlikely to schedule repeat procedures or planned primary cesarean deliveries on weekends or holidays. (More detailed information on 1989 births according to method of delivery will be published in another supplement to the Monthly Vital Statistics Report.)

### Place of delivery

With the revision in the U.S. Standard Certificate of Live Birth in 1989, the item that identifies the type of facility where the birth occurred was modified to provide more detail. Information is now reported to distinguish

among births occurring in freestanding birthing centers, clinics or doctors' offices, residences or other places, as well as hospitals. As a result of the more detailed classification as well as greater effort to more precisely differentiate among the various delivery sites, the proportion of births reported to have occurred in hospitals was slightly smaller in 1989 (98.8 percent) than in previous years, (99.1 percent in 1987 and 1988). Births occurring outside of hospitals totaled 47,214 in 1989 (table 10) compared with 36,258 in 1988.

More than half of out-of-hospital deliveries occurred in residences; nearly a third occurred in freestanding birthing centers. White mothers were more likely than black mothers to have had an out-of-hospital delivery in 1989, 1.2 percent compared with 0.9 percent. However, black mothers with nonhospital deliveries were much more likely than their white counterparts to give birth at home (71 percent compared with 57 percent). Conversely, birthing centers were relatively much more utilized by white mothers, 34 percent of nonhospital deliveries compared with 9 percent for black mothers.

### Attendant at birth

The 1989 revision of the U.S. Standard Certificate of Live Birth also provides more detail on the person attending the birth. Doctors of medicine (M.D.'s) and doctors of osteopathy (D.O.'s) are separately identified, and midwives are categorized as certified nurse midwives and "other" midwives. Other midwives may include both lay midwives and nurse midwives who are not certified.

The proportion of deliveries attended by physicians (M.D.'s and D.O.'s) in 1989 was 95.7 percent, slightly below the 1988 level, 96.0 percent. (See table 10.) Of the 3,856,842 physician-attended births in 1989, only 3 percent were attended by osteopathic physicians. Midwives delivered 147,293 babies in 1989, 3.7 percent of all births compared with 3.4 percent in 1988. The 1980's has seen a substantial growth in the number of midwife-attended births: The number in 1989

was nearly three times the number reported in 1980 (51,576).

The vast majority (90 percent) of midwife-attended births in 1989 were attended by certified nurse midwives. As would be expected, midwife-attended births in hospitals are almost exclusively attended by certified nurse midwives (98 percent). Although just 43 percent of midwives attending all nonhospital births in 1989 were certified nurse midwives, midwives attending births in birthing centers were much more likely to be certified (63 percent). Mothers giving birth in residences with midwife attendants were much less likely to be attended by certified nurse midwives (30 percent). Midwives attended 47 percent of all nonhospital deliveries in 1989 and in 1988.

Black mothers giving birth in hospitals were more likely than their white counterparts to have been attended by midwives, 3.9 percent compared with 2.9 percent. Conversely, white mothers giving birth in nonhospital settings were far more likely to have a midwife attendant (53 percent) than were black mothers (8 percent). These relationships have been observed for several years. Moreover, white mothers attended by midwives were much more likely to be giving birth in a nonhospital setting (19 percent) than were black mothers (2 percent).

### Age of father

The birth rate for men in 1989 was 57.3 live births per 1,000 men aged 15-54 years, 3 percent higher than in 1988, 55.9. This rate has changed relatively little since the early 1970's, ranging from 53.2 to 59.1. Basic data are shown in tables 11 and 12.

Birth rates by age of father rose for men in all age groups 15-19 through 55 years and over. Increases of 1-3 percent were measured for men aged 25-44 years. Rates for men 20-24 and 45-54 years increased by 4 percent. The increase for men aged 15-19 was especially large, 12 percent. This coincides with an 8-percent rise in the birth rate for women aged 15-19.

### Weight at birth

The rate of low birth weight increased slightly between 1988 and 1989, from 6.9 to 7.0 percent, the highest level observed since 1978 (7.1). The racial differential in low birth weight (births weighing less than 2,500 grams or 5 pounds 8 ounces) remained substantial in 1989: The rate for white babies rose from 5.6 to 5.7 percent and the rate for black babies increased from 13.0 to 13.2 percent. The rate of low birth weight for black births has increased steadily since 1984 (12.4 percent). According to the new tabulations of births by race of mother, the rate of low birth weight for births to white mothers was also 5.7 percent and for births to black mothers it was 13.5 percent. (See table 13 for basic data.)

An important factor accounting for the persistent high level of low birth weight during the 1980's continues to be the steady rise in the incidence of preterm births (those born before 37 completed weeks of gestation). The proportion of babies born preterm rose in 1989 to 10.6 percent compared with 10.2 percent in 1988 and 9.4 percent in 1981. Forty-one percent of preterm births in 1989 weighed less than 2,500 grams compared with 39 percent in 1988. In contrast just 2.1-3.2 percent of term and postterm births were of low birth weight.

The racial differential in low birth weight reflects the much higher incidence of preterm births among black babies and the disparity in low birth weight for term and postterm births. In 1989, 18.9 percent of births to black mothers and 8.8 percent of births to white mothers were preterm. Among preterm births, infants born to white and black mothers were at a similar risk of low birth weight, 39.0 and 45.3 percent, respectively. For term and postterm births, however, babies born to black women were more than twice as likely as babies born to white women to be of low birth weight, 6.2 percent (term) and 4.7 percent (postterm) compared with 2.6 percent and 1.7 percent, respectively, for babies born to white women.

The incidence of low birth weight increased for mothers in most age

groups by 1–3 percent. Rates for mothers aged 15 and under, 17 years, and 20–24 years declined or were unchanged. The rate for births to mothers aged 45–49 rose from 9.8 to 10.5 percent. The risk of a low-birth-weight outcome is lowest for births to mothers aged 25–29 and 30–34. Rates rose by 2–3 percent for births to these mothers, to 6.2 percent and 6.5 percent, respectively. The greatest risk of a low-birth-weight outcome continues to be for births to teenage mothers (8.5–13.4 percent) and to mothers aged 40 and older (8.4–10.5 percent).

The median birth weight for babies born in 1989 was 3,370 grams (equivalent to 7 pounds 7 ounces). For births to white mothers, the median was 3,410 grams (7 pounds 8 ounces), and for births to black mothers, the median was 3,160 grams (6 pounds 15 ounces).

The numbers and proportions of low-birth-weight infants in 1989 are shown for each State in table 14. Between 1988 and 1989, the incidence of low birth weight rose in 32 States and the District of Columbia, declined in 8 States, and was unchanged in 10 States. The increases were especially large (8–15 percent) in the District of Columbia, Idaho, Mississippi, South Dakota, and Vermont. There was an 8-percent decline in Montana.

Figures by race of mother for births to white mothers are about the same as those for white births. In contrast, there are considerable differences in the figures for births to black mothers compared with the figures for black births, as shown in table 14.

### Multiple births

The number of babies born in multiple deliveries increased 6 percent in 1989, to 92,916, compared with 87,700 in 1988. The vast majority (97.0 percent) of multiple births are twins, 90,118 in 1989 (table 15). This proportion has declined in recent years.

The ratio of multiple births per 1,000 total live births was 23.0 in 1989, compared with 22.4 in 1988 and 22.0 in 1987. The 1989 ratio is the highest reported in more than 30 years. Ratios generally declined from 1958 (20.6) to 1973 (18.4) and have increased steadily

thereafter. Over the past several decades, multiple birth ratios for black births have consistently been higher than for white births. In 1989 the ratio for births to black mothers was 26.9, and for births to white mothers it was 22.5.

Multiple birth ratios by age of mother vary in a predictable pattern. The ratios peak for mothers aged 35–39 years: The ratio in 1989 was 30.5. The ratios for other age groups varied from 11.2 for births to mothers under age 15, to 28.5 for births to mothers aged 30–34. These relationships by age of mother are observed for births to white and black mothers, and with few exceptions, the ratios for births to black mothers were higher than ratios for births to white mothers in each age group.

The number of births in triplet and higher order plural deliveries continued to rise substantially in 1989, to a total of 2,798, a 17-percent increase over the 1988 level (2,385). These births accounted for 3.0 percent of all plural births in 1989 compared with 2.7 percent in 1988.

In 1989 births in quadruplet and quintuplet and higher order plural deliveries were separately identified for the first time in more than a decade. There were 229 births in quadruplet deliveries and 40 births in quintuplet and higher order deliveries in 1989 (data not shown in table 15).

The steady rise in the number of multiple births in recent years has been associated in part with the shift in childbearing to older ages and with the growing use of fertility-enhancing drugs to enable previously childless couples to have children (9).

### Births to unmarried mothers

The number of births to unmarried mothers in 1989 totaled 1,094,169, a 9-percent increase compared with 1988 (1,005,299), and 64 percent more than in 1980 (665,747). The nonmarital birth rate rose to 41.8 births per 1,000 unmarried women aged 15–44 years in 1989, 8 percent higher than in 1988 (38.6) and 42 percent greater than in 1980 (29.4). This is the fifth consecutive year of increases of 5 percent or

more in these key measures of nonmarital childbearing.

During this period of substantial increases in nonmarital childbearing, childbearing by married women has changed relatively little overall. The number of births to married women in 1989, 2,946,789, is virtually unchanged from the number reported in 1980 (2,946,511). The birth rate for married women in 1989 was 91.3 births per 1,000 women aged 15–44, up 1 percent from the 1988 level (90.3) but still 6 percent below the rate for 1980 (97.0). As a consequence of the divergent trends during the 1980's in marital and nonmarital childbearing, the proportion of births occurring to unmarried women has risen rapidly, from 18.4 percent in 1980 to 27.1 percent in 1989. (Basic data are shown in tables 16 and 17.)

Births and birth rates rose considerably for white and black births to unmarried women between 1988 and 1989 and, as in the past several years, the increases were somewhat greater for white than for black births. The number of births increased 10 percent and 7 percent, respectively, to 593,911 white births and 457,480 black births. The nonmarital birth rates rose 10 percent for white births and 5 percent for black births. The 1989 rates were 30.1 per 1,000 unmarried white women aged 15–44 years and 90.0 for black women.

In the case of nonmarital births, the change in the tabulation of births by race to the mother's race resulted in 3 percent more white nonmarital births (613,543 compared with 593,911) and 3 percent fewer black nonmarital births (442,395 compared with 457,480), than when the births are tabulated by race of child. Analysis of year-to-year changes in nonmarital childbearing by race of mother will be possible beginning with the 1990 data year.

Increases in birth rates were substantial for unmarried mothers in all age groups, 9–10 percent for mothers under 35 and 6–7 percent for mothers aged 35 and older. Birth rates continue to be highest for unmarried mothers aged 18–24 years, with rates of 57–62 per 1,000. In recent years, the number of unmarried teenagers has declined,



reflecting the sharp reduction in births that occurred during the 1970's when today's teenagers were born. Thus, if the nonmarital birth rate had not increased in 1989 by 9 percent but had remained at its 1988 level, there would have been a reduction of about 7,000 nonmarital births to women aged 15-19 rather than the increase of nearly 25,000 births that actually occurred.

Although the number of teenaged women declined during the 1980's (by 16 percent), the number of women aged 20 and older rose (by 17 percent), particularly those aged 25-44 who are members of the baby-boom generation (up 26 percent). Increasing proportions of these relatively older women are unmarried. The convergence of these population changes with the rising rates of nonmarital childbearing among these women has resulted in even sharper increases in the number of nonmarital births to women in their twenties and older. Between 1980 and 1989, this number rose from 393,946 to 746,289, an increase of 89 percent.

Rates for white births rose in all age groups by 8-12 percent and for black births by 3-9 percent (except the rate for women aged 40-44 which did not change). The pattern of increases was such that while increases in rates for white and black teenage births were fairly similar, the increases for white births to women in age groups 20 and older were about twice the increases for black births to women in the same age groups (table 17). This pattern of much greater increase in rates for white than for black women has been repeated over the past several years. Overall, the rate for white births rose 66 percent while the rate for black births rose 12 percent between 1980 and 1989.

The incidence of nonmarital childbearing varies greatly from State to State. The number and ratio of births to unmarried women for each State are presented in table 18. Figures are shown by race of mother and by race of child. With only three exceptions, the ratios per 1,000 total live births were higher in each State in 1989 than in 1988.

### Interval since last live birth

Intervals between successive births are calculated from the date of the last live birth and the date of the present birth. Beginning with the 1989 data year, this information is available for the entire United States. Intervals between births are calculated for all second and higher order births (table 19).

The proportions of births occurring after various intervals following the mother's previous live birth in 1989 were unchanged from the 1988 levels. Thirteen percent of all second and higher order births occurred within 18 months of the mother's previous live birth, 27 percent within 2 years, and 51 percent within 3 years.

The racial disparity in the occurrence of births at very short intervals is substantial. In 1989, 12 percent of births to white mothers compared with 19 percent of births to black mothers were born within 18 months of the previous birth.

Closely spaced births are at much greater risk of low birth weight and other health complications (10). The increased health risks for these infants are in part associated with the greater tendency for them to occur among young mothers and black mothers whose babies are at greater risk of low birth weight. For example, although teenage mothers accounted for just 8 percent of all second births in 1989, they accounted for 24 percent of second births occurring within 1 1/2 years of the mother's previous birth. Similarly, black women accounted for a larger fraction of closely spaced second births (19 percent) than of all second births (15 percent).

### Educational attainment of mother and father

In 1989 educational attainment of the parents was reported on the birth certificates of 48 States, the District of Columbia, and New York City. California and Texas provided this information for the first time in 1989. The reporting area for 1989 is therefore substantially different from that for 1988 and earlier years. California and

Texas, which together accounted for 22 percent of U.S. births in 1989, include sizable proportions of recent immigrants (11) whose educational attainment in many cases is less than that of the U.S.-born population. As a consequence of this compositional change between 1988 and 1989, the overall educational attainment of mothers giving birth in the United States was less than that reported for those giving birth in 1988 and previous years.

In 1989, 77 percent of mothers and 82 percent of fathers were reported to be high school graduates. (Basic data are presented in tables 20 and 21.) The educational attainment of fathers is overstated to the extent that the information was available mainly for married parents. When the mother is unmarried, information on the father is often not reported. Because nonmarital births are disproportionately to teenage mothers, it may be assumed that the fathers of such births are also relatively young and have had less opportunity to advance their education.

Seventeen percent of women giving birth in 1989 were college graduates compared with 18 percent in 1988. Among mothers aged 30 and older, 33-39 percent were college graduates in 1989. First-time mothers are even more likely to be college graduates. This pattern was described earlier in the section, "Births and birth rates," and in a previously published report (7). In 1989, 46 percent of first-time mothers aged 30-34 and 52 percent of those aged 35-39 were college graduates.

Among white mothers giving birth in 1989, 78 percent were high school graduates and 19 percent were college graduates. The comparable proportions for black mothers were 70 percent and 7 percent.

The median years of school completed by mothers aged 20 and older increased from 12.5 years for mothers aged 20-24 to 14.5 for mothers aged 35-39, and then fell slightly to 14.1 for mothers aged 40 and older.

### Births to Hispanic mothers

Hispanic origin of the parents was reported on the birth certificates of 47

States and the District of Columbia in 1989, an increase of 17 States compared with 1988. Only Louisiana, New Hampshire, and Oklahoma did not report this information in 1989. Based on data published by the U.S. Bureau of the Census (12) and related unpublished tabulations, it is estimated that 99 percent of the Hispanic population resides in the 1989 reporting area.

The tabulations in this report show births classified by the Hispanic origin of the mother. The terms "births to mothers of Hispanic origin" and "Hispanic origin births" are used interchangeably in the text.

The fertility of the Hispanic population remained at a very high level in 1989. The estimated fertility rate for U.S. Hispanic women aged 15–44 years was 104.9, 60 percent above the rate of 65.7 for non-Hispanic women. (See tables 22–25 for births by Hispanic origin by State, by age of mother, by race, and estimated birth and fertility rates and age-specific birth rates.) As in previous years, Mexican women had the highest fertility of any Hispanic group, with a rate of 106.6 compared with 86.6 for Puerto Rican women, 49.8 for Cuban women, and 95.8 for Central and South American women.

Of the 532,249 Hispanic origin births in 1989, 327,233 (61 percent) were to Mexican women, 56,229 (11 percent) were to Puerto Rican women, 10,842 (2 percent) were to Cuban women, and 72,443 (14 percent) were to Central and South American women.

The Hispanic population is concentrated, as are the births, in a relatively small number of States. California and Texas accounted for 40 and 20 percent of the U.S. Hispanic births, respectively. Other States with large numbers of Hispanic births were New York (9 percent), Florida (5 percent), Illinois (4 percent), New Jersey and Arizona (3 percent each), and New Mexico (2 percent).

The racial composition of Hispanic births has changed very little since the data first became available in 1978. In 1989, 96.6 percent of Hispanic births were to white mothers, 2.2 percent were to black mothers, and 1.3 percent were to mothers of other races. There are variations in the racial dis-

tribution of the individual Hispanic groups, as shown in table 23.

Birth rates for 1989 by age of mother for the Hispanic population are shown in table 24. Rates by age have not previously been available except for the 1980 data year (coinciding with the decennial census). These rates show clearly that the fertility of Hispanic women is higher than that of non-Hispanic women at every age. The differential is generally greatest for teenagers and for women aged 40 and older.

Because the necessary population data are not available, it is not possible to compute birth and fertility rates for the non-Hispanic population by race, but some comparisons can be made of rates for Hispanic women with the rates for all black women shown in table 3; as noted earlier, very few Hispanic mothers are black. If rates for Hispanic women are compared with those for black women (tables 3 and 24), it is evident that although black teenagers have higher fertility than Hispanic teenagers, birth rates for Hispanic women aged 20 and older are higher than for black women and the gap between them increases as age of mother advances. As a consequence, the total fertility rate for Hispanic women (2,903.5) is considerably higher than for black women (2,414.0). (See section above for more discussion of the total fertility rate.)

Birth rates by age for the individual Hispanic groups vary widely. The rates for Mexican women are generally comparable to those for all Hispanic women, although the rate for Mexican teenagers is slightly below that of all Hispanic teenagers. The total fertility rate for Mexican women was 2,916.5 in 1989.

The pattern of rates for Puerto Rican women by age is quite similar to that for black women (tables 3 and 24). Fertility is very high for teenagers in both groups, considerably higher than for any other group. Childbearing for both groups is very highly concentrated at ages 15–29 years. At ages 30 and older the rates begin to drop sharply for Puerto Rican and black women. The total fertility rate for Puerto Rican women in 1989 was 2,421.0, nearly the

same as the rate for black women (2,414.0).

Birth rates by age for Cuban women under age 25 were substantially below the rates for any other group. For example, the rate for teenagers was 25.1 per 1,000 compared with 53.4 for non-Hispanic teenagers and a range of 66.4–112.7 for other Hispanic groups. Rates for women 25 and older were comparable to those for Puerto Rican and non-Hispanic women. Because rates for Cuban women under 25 are so low, however, their total fertility rate is correspondingly very low (1,479.0).

Birth rates for women of Central and South American origin were particularly high for women in their twenties and for women aged 35 and older. In contrast, rates for teenage women were relatively low. Because the rates were so high for women in the peak childbearing ages, the total fertility rate for these women was high as well (2,683.0).

Large proportions of Hispanic births are to teenage mothers. (See table 25 for 1989 data.) This reflects the relatively high levels of birth rates for Hispanic teenagers as well as the relatively youthful composition of the Hispanic population. For example, the median age of the Mexican population in 1989 was 23.6 years, compared with a median of 33.2 years for the non-Hispanic population (12).

In 1989, 17 percent of all Hispanic births were to mothers under 20 years of age, but there were wide variations in these proportions among the various Hispanic groups—17–22 percent for Mexican and Puerto Rican births compared with 7–9 percent for Cuban and Central and South American births. These proportions have been about the same for many years.

As a consequence of very high birth rates throughout the childbearing years, Hispanic women (except Cubans) are much more likely than white non-Hispanic women to be giving birth to their fourth or higher order child, 16 percent compared with 8 percent (table 26).

A summary of various childbearing characteristics by Hispanic origin of the mother is presented in table 26. There

was little change in these characteristics during the 1980's. As was the case with birth and fertility rates by Hispanic origin, there is considerable variation among the Hispanic groups for most variables. Thirty-six percent of all Hispanic births were nonmarital (ranging from 18 to 55 percent) compared with 16 percent of births to white non-Hispanic mothers and 66 percent of births to black non-Hispanic mothers. Only 47 percent of Hispanic women giving birth in 1989 were high school graduates (range of 39–82 percent) compared with 85 percent of white non-Hispanic and 70 percent of black non-Hispanic mothers. Forty-one percent of Hispanic women giving birth in 1989 were born in the United States and 59 percent were foreign- or Puerto Rican-born. There are important differentials in childbearing characteristics of native and foreign-born Hispanic mothers (13,14).

Hispanic mothers (except Cubans) giving birth in 1989 were much less likely to begin prenatal care early and much more likely to receive late or no care than white non-Hispanic mothers. The incidence of low birth weight among Hispanic origin infants continues to be remarkably low (6.2 percent overall), given that Hispanic women (except for Cuban women) have limited educational attainment and are unlikely to receive prenatal care early in pregnancy, both factors that usually have direct impact on the levels of low birth weight. The levels of preterm birth (babies born prior to 37 weeks of gestation) among Hispanic infants are not as favorable as those of low birth weight.

The 1- and 5-minute Apgar scores are an additional measure of birth outcome. (See section on Apgar scores.) Babies born to Hispanic mothers were generally less likely than babies born to white or black non-Hispanic mothers to have low 1-minute Apgar scores (scores below 7), but they were about as likely as babies born to white non-Hispanic mothers to have low 5-minute Apgar scores.

### **Births of other racial and national origin groups**

The change in 1989 to tabulating births according to the race of the

mother rather than the race of the child has had its greatest impact on the number and distribution of births of races other than white and black. As noted earlier, the change has resulted in an increase in the number of white births and a decrease in the number of births in every other racial group. The extent of the difference varies according to the frequency of interracial parentage in each group. As shown in table 27, the greatest numerical impact was on the number of American Indian births. Nearly 10,000 fewer births occurred to American Indian mothers than the number of births tabulated as American Indian on the basis of the race of the child, a 20-percent difference. The difference for Chinese, Filipino, and other Asian births ranged from 6 to 8 percent; for Japanese births the difference was 18 percent. The largest percent difference was noted for Hawaiian births, 31 percent. This was greater than for other groups because all interracial births with one Hawaiian parent were previously classified as Hawaiian, regardless of the other parent's race. This "Hawaiian preference" resulted in an elevated number of births.

A comparison of 1988 and 1989 births tabulated by race of child indicates increases of 6–7 percent for American Indian, Hawaiian, and Filipino births and 4 percent for other Asian births. The number of Japanese births increased very slightly and the number of Chinese births declined by a small amount. These changes are all relatively modest compared with those observed between 1987 and 1988.

Even with the tabulation of births by race of mother, certain childbearing patterns persist. Teenage childbearing as measured by the proportion of births to mothers under 20 continues to be uncommon for Chinese (1 percent), Japanese (3 percent), and Filipino and other Asian mothers (6 percent each). In contrast, 17 percent of Hawaiian mothers and 20 percent of American Indian mothers were teenaged in 1989. These levels can be compared with 11 percent for white mothers and 23 percent for black mothers.

Births to mothers aged 30 and older are very common among Chinese

(57 percent), Japanese (59 percent), Filipino (46 percent), and other Asian women (38 percent) compared with 20–21 percent of black, American Indian, and Hawaiian women and 31 percent of white women.

The incidence of low birth weight for births to mothers of races other than white and black ranged from 4.9 percent for Chinese births to 7.3 percent for Hawaiian and Filipino births. (See table 28.) These levels can be compared with the percent for births to white mothers, 5.7 percent, and for births to black mothers, 13.5 percent. Except for births to American Indian and Hawaiian mothers, the low incidence of low birth weight among other racial groups is directly associated with the relatively low proportions of teenage births, which are at much greater risk of low birth weight.

### **Month of pregnancy prenatal care began**

The proportion of mothers beginning prenatal care in the critical first trimester of pregnancy declined slightly from 76 percent in 1988 to 75 percent in 1989. (See table 29 for basic data for 1989.) There has been essentially no change in this proportion since 1979 (except for 1984 when it was 77 percent). Prior to 1979, there were annual increases in this proportion, from 68 percent in 1969 to 75 percent in 1978. The proportion of mothers who received late care beginning in the third trimester or no care at all remained at 6 percent as it has since 1983.

The racial disparity in the timely receipt of prenatal care remained substantial in 1989: 79 percent of white mothers compared with 60 percent of black mothers began care in the first trimester. The proportions receiving late or no care were 5 percent for white mothers and 12 percent for black mothers. The proportions for births by race of child were the same as by race of mother. The 12-percent level of late or no care for black mothers was the highest reported since 1973.

In 1989 as in the last several years, gains in the early receipt of prenatal care were limited to the youngest and

oldest mothers. Some deterioration was noted for mothers aged 20–39 years. In 1989 only 54 percent of mothers under 20 began care in the first trimester. This proportion rose to a peak of 85 percent for women aged 30–34 years and then fell to 78 percent for women aged 40–49 years. Young teenage mothers continue to be at particularly great risk of receiving late or no care, 14 percent of mothers aged 17 and under in 1989.

There is a strong association between the mother's educational attainment and the timing of the first visit for prenatal care (15). In 1989, 93 percent of college graduates began care in the first trimester compared with just 51 percent of mothers with only a grade school education. In each educational attainment category, white mothers were more likely than black mothers to get care early in pregnancy. (Data are not shown in this report.)

### Number of prenatal visits

The number of visits made to obtain prenatal care was reported by every State and the District of Columbia in 1989. In 1988 and earlier years, this information was not available for California. The median number of visits made by women who had any prenatal care was 12.0 in 1989 as it was in 1987–88. For white mothers, the median was 12.2 and for black mothers, it was 10.6 visits. (Basic data for 1989 are presented in table 30.)

As would be expected, the earlier in pregnancy that prenatal care is begun, the more visits a woman is likely to make. Mothers beginning care in the first trimester made 2 1/2 times as many visits as those beginning care in the third trimester, 12.5 compared with 5.0 visits. This pattern is observed for both white and black mothers. Black mothers have fewer visits overall primarily because they are much more likely to begin care in the second or third trimester and consequently to make fewer visits.

### Period of gestation

The proportion of babies born preterm, that is, at less than 37 weeks of gestation, increased from 10.2 percent

in 1988 to 10.6 percent in 1989, the largest annual increase in 5 years. Since 1981, this proportion has risen steadily (except for a decline between 1983 and 1984) from 9.4 percent. (Data for 1989 are shown in table 31.)

The period of gestation is measured as the interval from the first day of the mother's last normal menstrual period (LMP) and the date of birth. With the revision of the birth certificate in 1989, an additional item of information, the "clinical estimate of gestation" in weeks, may be used if the length of gestation computed from the LMP date is inconsistent with the reported birth weight or is not reported. These procedures are described in more detail in the Technical notes.

The effect of the editing procedure is to decrease slightly the proportion of preterm births. If only records with gestations based on the LMP date are considered, the proportion of preterm births would have been 10.7 percent rather than the 10.6 percent level based on LMP and clinical estimate date combined. Thus, the increase in the incidence of preterm births reflects a real change and is not associated with the editing procedure.

The racial disparity in length of gestation is substantial; in 1989, 8.8 percent of white mothers and 18.9 percent of black mothers were reported to have preterm births. The comparable proportions for births by race of child were 8.8 percent for white births and 18.5 percent for black births. The incidence of preterm births rose for both white and black infants in 1989.

### Apgar score

The Apgar score is a summary measure developed by the late physician, Virginia Apgar, to evaluate the newborn infant's overall physical condition at birth. The score is a composite evaluation of five factors—the infant's heart rate, respiratory effort, muscle tone, irritability, and color—each of which is assigned a value of 0 to 2, with a total maximum score of 10 being optimum. The scores at 1 and 5 minutes after birth were reported by 47 States and the District of Columbia

in 1989. Information was not available for California, Oklahoma, and Texas.

The proportion of babies with high 1-minute Apgar scores (9–10) increased in 1989 to 42.3 percent, the third consecutive year of increase. (Data for 1989 are shown in table 32.) Although babies born to black mothers were more likely than babies born to white mothers to have high 1-minute Apgar scores, 44.0 percent compared with 41.8 percent, babies born to black mothers were also more likely to have very low scores (less than 7), 11.5 percent compared with 8.2 percent.

The 5-minute Apgar score is considered to have better long-term predictive value concerning the infant's health and survival chances. In 1989, 1.6 percent of all babies were reported to have depressed 5-minute scores (less than 7). The figures by race were 1.3 percent for births to white mothers and 2.9 percent for births to black mothers (table 33).

In 1989 as in previous years, there was a predictable pattern of scores by age of mother. Low scores were more prevalent for births to teenage mothers and mothers in their forties (2.0–3.2 percent) than among births to mothers in age groups 25–29 and 30–34 (1.4 percent). This pattern was repeated for births to white and black women, but in each age group low scores were relatively more frequent among births to black women.

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**Symbols**

- - - Data not available
  - . . . Category not applicable
  - Quantity zero
  - 0.0 Quantity more than zero but less than 0.05
  - \* Figure does not meet standard of reliability or precision (estimate is based on fewer than 20 births in numerator or denominator)
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[Birth rates are live births per 1,000 population in specified group. Fertility rates per 1,000 women aged 15–44 years in specified group. Population enumerated as of April 1 for census years and estimated as of July 1 for all other years. Beginning with 1970, excludes births to nonresidents of the United States]

Year	Number				Birth rate				Fertility rate			
	All races	White	All other		All races	White	All other		All races	White	All other	
			Total	Black			Total	Black			Total	Black
<b>Registered births</b>												
<b>Race of mother:</b>												
1989	4,040,958	3,192,355	848,603	673,124	16.3	15.3	21.6	22.0	69.2	66.0	84.6	85.8
<b>Race of child:</b>												
1989	4,040,958	3,131,991	908,967	709,395	16.3	15.0	23.1	23.1	69.2	64.7	90.6	90.4
1988	3,909,510	3,046,162	863,348	671,976	15.9	14.7	22.5	22.2	67.2	63.0	87.5	86.6
1987	3,809,394	2,992,488	816,906	641,567	15.7	14.5	21.7	21.6	65.7	62.0	84.4	83.8
1986	3,756,547	2,970,439	786,108	621,221	15.6	14.5	21.4	21.2	65.4	61.9	83.0	82.4
1985	3,760,561	2,991,373	769,188	608,193	15.8	14.8	21.4	21.1	66.2	63.0	83.2	82.2
1984 <sup>1</sup>	3,669,141	2,923,502	745,639	592,745	15.5	14.5	21.2	20.8	65.4	62.2	82.5	81.4
1983 <sup>1</sup>	3,638,933	2,904,250	734,683	586,027	15.5	14.6	21.3	20.9	65.8	62.4	83.2	81.7
1982 <sup>1</sup>	3,680,537	2,942,054	738,483	592,641	15.9	14.9	21.9	21.4	67.3	63.9	85.5	84.1
1981 <sup>1</sup>	3,629,238	2,908,669	720,569	587,797	15.8	14.8	22.0	21.6	67.4	63.9	86.4	85.4
1980 <sup>1</sup>	3,612,258	2,898,732	713,526	589,616	15.9	14.9	22.5	22.1	68.4	64.7	88.6	88.1
1979 <sup>1</sup>	3,494,398	2,808,420	685,978	577,855	15.6	14.5	22.2	22.0	67.2	63.4	88.5	88.3
1978 <sup>1</sup>	3,333,279	2,681,116	652,163	551,540	15.0	14.0	21.6	21.3	65.5	61.7	87.0	86.7
1977 <sup>1</sup>	3,326,632	2,691,070	635,562	544,221	15.1	14.1	21.6	21.4	66.8	63.2	87.7	88.1
1976 <sup>1</sup>	3,167,788	2,567,614	600,174	514,479	14.6	13.6	20.8	20.5	65.0	61.5	85.8	85.8
1975 <sup>1</sup>	3,144,198	2,551,996	592,202	511,581	14.6	13.6	21.0	20.7	66.0	62.5	87.7	87.9
1974 <sup>1</sup>	3,159,958	2,575,792	584,166	507,162	14.8	13.9	21.2	20.8	67.8	64.2	89.8	89.7
1973 <sup>1</sup>	3,136,965	2,551,030	585,935	512,597	14.8	13.8	21.7	21.4	68.8	64.9	93.4	93.6
1972 <sup>1</sup>	3,258,411	2,655,558	602,853	531,329	15.6	14.5	22.8	22.5	73.1	68.9	99.5	99.9
1971 <sup>2</sup>	3,555,970	2,919,746	636,224	564,960	17.2	16.1	24.6	24.4	81.6	77.3	109.1	109.7
1970 <sup>2</sup>	3,731,386	3,091,264	640,122	572,362	18.4	17.4	25.1	25.3	87.9	84.1	113.0	115.4
1969 <sup>2</sup>	3,600,206	2,993,614	606,592	543,132	17.9	16.9	24.5	24.4	86.1	82.2	111.6	112.1
1968 <sup>2</sup>	3,501,564	2,912,224	589,340	531,152	17.6	16.6	24.2	24.2	85.2	81.3	111.9	112.7
1967 <sup>3</sup>	3,520,959	2,922,502	598,457	543,976	17.8	16.8	25.0	25.1	87.2	82.8	117.1	118.5
1966 <sup>2</sup>	3,606,274	2,993,230	613,044	558,244	18.4	17.4	26.1	26.2	90.8	86.2	123.5	124.7
1965 <sup>2</sup>	3,760,358	3,123,860	636,498	581,126	19.4	18.3	27.6	27.7	96.3	91.3	131.9	133.2
1964 <sup>2</sup>	4,027,490	3,369,160	658,330	607,556	21.1	20.0	29.2	29.5	104.7	99.8	140.0	142.6
1963 <sup>2,4</sup>	4,098,020	3,326,344	638,928	580,658	21.7	20.7	29.7	---	108.3	103.6	143.7	---
1962 <sup>2,4</sup>	4,167,362	3,394,068	641,580	584,610	22.4	21.4	30.5	---	112.0	107.5	147.8	---
1961 <sup>2</sup>	4,268,326	3,600,864	667,462	611,072	23.3	22.2	31.6	---	117.1	112.3	153.0	---
1960 <sup>2</sup>	4,257,850	3,600,744	657,106	602,264	23.7	22.7	32.1	31.9	118.0	113.2	153.6	153.5
<b>Births adjusted for underregistration</b>												
<b>Race of child:</b>												
1955	4,097,000	3,485,000	613,000	---	25.0	23.8	34.5	---	118.3	113.7	154.3	---
1950	3,632,000	3,108,000	524,000	---	24.1	23.0	33.3	---	106.2	102.3	137.3	---
1945	2,858,000	2,471,000	388,000	---	20.4	19.7	26.5	---	85.9	83.4	106.0	---
1940	2,559,000	2,199,000	360,000	---	19.4	18.6	26.7	---	79.9	77.1	102.4	---

<sup>1</sup>Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

<sup>2</sup>Based on a 50-percent sample of births.

<sup>3</sup>Based on a 20- to 50-percent sample of births.

<sup>4</sup>Figures by race exclude data for New Jersey.

**Table 2. Live births by age of mother, live-birth order, and race of mother and of child: United States, 1989**

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

Live-birth order and race	All ages	Age of mother												
		Under 15 years	15-19 years					20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	
			Total	15 years	16 years	17 years	18 years							19 years
All races . . . . .	4,040,958	11,486	506,503	26,730	57,279	97,035	144,350	181,109	1,077,598	1,263,098	842,395	293,878	44,401	1,599
First child . . . . .	1,648,303	11,006	383,113	24,794	50,310	79,140	107,441	121,428	508,864	457,357	218,432	61,328	7,981	222
Second child . . . . .	1,300,371	369	97,760	1,729	6,116	15,163	29,568	45,184	360,064	446,506	296,521	88,942	10,015	194
Third child . . . . .	657,558	19	19,815	99	567	2,095	5,775	11,279	144,126	227,443	188,144	68,599	9,177	235
Fourth child . . . . .	249,785	3	3,176	7	35	200	835	2,099	43,633	82,142	78,736	35,807	6,096	192
Fifth child . . . . .	91,415	-	417	2	6	22	85	302	11,734	27,511	30,834	16,923	3,821	175
Sixth child . . . . .	37,393	-	50	-	4	2	10	34	2,859	9,835	13,332	8,858	2,323	136
Seventh child . . . . .	16,740	-	18	-	1	1	6	10	677	3,479	6,010	4,914	1,543	99
Eighth child and over . . . . .	16,980	-	8	-	-	2	1	5	287	1,908	5,061	6,386	3,016	314
Not stated . . . . .	22,413	89	2,146	99	240	410	629	768	5,354	6,917	5,325	2,121	429	32
Race of mother														
White . . . . .	3,192,355	4,630	340,472	13,869	34,133	63,734	99,302	129,434	824,189	1,040,659	702,963	242,467	35,795	1,180
First child . . . . .	1,322,149	4,432	268,824	13,166	31,090	54,593	78,137	91,838	411,453	390,939	187,239	52,470	6,622	170
Second child . . . . .	1,049,754	139	59,374	628	2,717	8,009	17,819	30,201	277,801	375,981	252,831	75,082	8,387	159
Third child . . . . .	513,250	7	9,562	29	172	798	2,618	5,945	99,074	182,137	157,523	57,220	7,543	184
Fourth child . . . . .	183,430	1	1,200	3	8	65	288	836	25,266	60,424	62,672	28,784	4,923	160
Fifth child . . . . .	62,289	-	132	1	2	12	27	90	5,538	17,825	22,800	12,894	2,965	135
Sixth child . . . . .	24,370	-	24	-	1	1	4	18	1,113	5,700	9,156	6,533	1,746	98
Seventh child . . . . .	10,538	-	8	-	1	-	3	4	240	1,717	3,858	3,525	1,125	65
Eighth child and over . . . . .	10,564	-	5	-	-	1	-	4	133	824	2,860	4,385	2,171	186
Not stated . . . . .	16,011	51	1,343	42	142	255	406	498	3,571	5,112	4,024	1,574	313	23
All other . . . . .	848,603	6,856	166,031	12,861	23,146	33,301	45,048	51,675	253,409	222,439	139,432	51,411	8,606	419
First child . . . . .	326,154	6,574	114,289	11,628	19,220	24,547	29,304	29,590	97,411	66,418	31,193	8,858	1,359	52
Second child . . . . .	250,617	230	38,386	1,101	3,399	7,154	11,749	14,983	82,263	70,525	43,690	13,860	1,628	35
Third child . . . . .	144,308	12	10,253	70	395	1,297	3,157	5,334	45,052	45,306	30,621	11,379	1,634	51
Fourth child . . . . .	66,355	2	1,976	4	27	135	547	1,263	18,367	21,718	16,064	7,023	1,173	32
Fifth child . . . . .	29,126	-	285	1	4	10	58	212	6,196	9,686	8,034	4,029	856	40
Sixth child . . . . .	13,023	-	26	-	3	1	6	16	1,746	4,135	4,176	2,325	577	38
Seventh child . . . . .	6,202	-	10	-	-	1	3	6	437	1,762	2,152	1,389	418	34
Eighth child and over . . . . .	6,416	-	3	-	-	1	1	1	154	1,084	2,201	2,001	845	128
Not stated . . . . .	6,402	38	803	57	98	155	223	270	1,783	1,805	1,301	547	116	9
Black <sup>1</sup> . . . . .	673,124	6,560	150,699	12,048	21,412	30,372	40,868	45,999	215,557	167,260	94,766	32,845	5,236	201
First child . . . . .	254,855	6,294	103,023	10,890	17,725	22,229	26,277	25,902	79,508	43,053	17,524	4,740	685	28
Second child . . . . .	197,083	216	35,307	1,040	3,203	6,647	10,866	13,551	70,975	53,884	27,850	7,961	870	20
Third child . . . . .	118,206	10	9,488	62	360	1,216	2,943	4,907	39,791	37,369	22,891	7,582	1,047	28
Fourth child . . . . .	54,862	2	1,841	3	25	130	511	1,172	16,260	18,005	12,760	5,184	791	19
Fifth child . . . . .	23,529	-	253	1	3	7	50	192	5,442	7,917	6,292	3,019	580	26
Sixth child . . . . .	10,066	-	25	-	3	1	6	15	1,494	3,282	3,176	1,695	379	15
Seventh child . . . . .	4,601	-	8	-	-	-	3	5	378	1,377	1,582	953	292	11
Eighth child and over . . . . .	4,341	-	2	-	-	-	1	1	120	831	1,590	1,253	497	48
Not stated . . . . .	5,581	38	752	52	93	142	211	254	1,589	1,542	1,101	458	95	6



Race of child														
White . . . . .	3,131,991	4,527	331,204	13,517	33,236	62,080	96,567	125,804	806,056	1,024,006	691,735	238,202	35,111	1,150
First child . . . . .	1,296,452	4,332	261,747	12,833	30,274	53,210	76,055	89,375	402,836	385,236	184,244	51,420	6,471	166
Second child . . . . .	1,031,252	136	57,562	609	2,643	7,765	17,278	29,267	271,698	370,432	249,240	73,821	8,215	148
Third child . . . . .	503,570	7	9,257	29	168	780	2,523	5,757	96,608	178,854	155,030	56,244	7,391	179
Fourth child . . . . .	179,568	1	1,160	3	8	62	281	806	24,591	59,067	61,443	28,308	4,841	157
Fifth child . . . . .	60,922	–	128	1	2	12	27	86	5,391	17,401	22,316	12,651	2,904	131
Sixth child . . . . .	23,808	–	23	–	1	1	4	17	1,076	5,533	8,936	6,420	1,725	95
Seventh child . . . . .	10,327	–	7	–	1	–	3	3	238	1,673	3,771	3,463	1,110	65
Eighth child and over . . . . .	10,403	–	5	–	–	1	–	4	132	805	2,804	4,326	2,145	186
Not stated . . . . .	15,689	51	1,315	42	139	249	396	489	3,486	5,005	3,951	1,549	309	23
All other . . . . .	908,967	6,959	175,299	13,213	24,043	34,955	47,783	55,305	271,542	239,092	150,660	55,676	9,290	449
First child . . . . .	351,851	6,674	121,366	11,961	20,036	25,930	31,386	32,053	106,028	72,121	34,188	9,908	1,510	56
Second child . . . . .	269,119	233	40,198	1,120	3,473	7,398	12,290	15,917	88,366	76,074	47,281	15,121	1,800	46
Third child . . . . .	153,988	12	10,558	70	399	1,315	3,252	5,522	47,518	48,589	33,114	12,355	1,786	56
Fourth child . . . . .	70,217	2	2,016	4	27	138	554	1,293	19,042	23,075	17,293	7,499	1,255	35
Fifth child . . . . .	30,493	–	289	1	4	10	58	216	6,343	10,110	8,518	4,272	917	44
Sixth child . . . . .	13,585	–	27	–	3	1	6	17	1,783	4,302	4,396	2,438	598	41
Seventh child . . . . .	6,413	–	11	–	–	1	3	7	439	1,806	2,239	1,451	433	34
Eighth child and over . . . . .	6,577	–	3	–	–	1	1	1	155	1,103	2,257	2,060	871	128
Not stated . . . . .	6,724	38	831	57	101	161	233	279	1,868	1,912	1,374	572	120	9
Black <sup>1</sup> . . . . .	709,395	6,640	156,969	12,294	22,015	31,476	42,702	48,482	227,099	176,748	100,906	35,191	5,633	209
First child . . . . .	270,439	6,374	107,768	11,121	18,277	23,152	27,639	27,579	85,002	46,131	19,062	5,301	773	28
Second child . . . . .	207,902	216	36,573	1,055	3,250	6,813	11,259	14,196	74,765	56,988	29,746	8,629	962	23
Third child . . . . .	123,951	10	9,687	62	362	1,222	3,008	5,033	41,407	39,300	24,266	8,115	1,137	29
Fourth child . . . . .	57,291	2	1,877	3	25	134	516	1,199	16,707	18,862	13,512	5,465	847	19
Fifth child . . . . .	24,345	–	253	1	3	7	50	192	5,542	8,183	6,576	3,151	612	28
Sixth child . . . . .	10,448	–	25	–	3	1	6	15	1,516	3,402	3,325	1,772	391	17
Seventh child . . . . .	4,719	–	9	–	–	–	3	6	379	1,402	1,628	990	300	11
Eighth child and over . . . . .	4,454	–	2	–	–	–	1	1	122	849	1,627	1,292	514	48
Not stated . . . . .	5,846	38	775	52	95	147	220	261	1,659	1,631	1,164	476	97	6

<sup>1</sup>Included in All other.

**Table 3. Birth rates by age of mother, live-birth order, and race of mother and of child: United States, 1989**

[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]

Live-birth order and race	Age of mother										
	15-44 years <sup>1</sup>	10-14 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
			Total	15-17 years	18-19 years						
All races . . . . .	69.2	1.4	58.1	36.5	86.4	115.4	116.6	76.2	29.7	5.2	0.2
First child . . . . .	28.4	1.3	44.1	31.3	61.0	54.8	42.4	19.9	6.2	0.9	0.0
Second child . . . . .	22.4	0.0	11.3	4.7	19.9	38.8	41.4	27.0	9.1	1.2	0.0
Third child . . . . .	11.3	*	2.3	0.6	4.5	15.5	21.1	17.1	7.0	1.1	0.0
Fourth child . . . . .	4.3	*	0.4	0.0	0.8	4.7	7.6	7.2	3.6	0.7	0.0
Fifth child . . . . .	1.6	*	0.0	0.0	0.1	1.3	2.6	2.8	1.7	0.4	0.0
Sixth and seventh child . . . . .	0.9	*	0.0	*	0.0	0.4	1.2	1.8	1.4	0.5	0.0
Eighth child and over . . . . .	0.3	*	*	*	*	0.0	0.2	0.5	0.7	0.4	0.0
<b>Race of mother</b>											
White . . . . .	66.0	0.7	48.5	28.3	74.7	108.0	116.1	76.6	29.3	4.9	0.2
First child . . . . .	27.5	0.7	38.5	25.1	55.7	54.2	43.8	20.5	6.4	0.9	0.0
Second child . . . . .	21.8	0.0	8.5	2.9	15.7	36.6	42.2	27.7	9.1	1.2	0.0
Third child . . . . .	10.7	*	1.4	0.3	2.8	13.0	20.4	17.3	7.0	1.0	0.0
Fourth child . . . . .	3.8	*	0.2	0.0	0.4	3.3	6.8	6.9	3.5	0.7	0.0
Fifth child . . . . .	1.3	*	0.0	*	0.0	0.7	2.0	2.5	1.6	0.4	0.0
Sixth and seventh child . . . . .	0.7	*	0.0	*	0.0	0.2	0.8	1.4	1.2	0.4	0.0
Eighth child and over . . . . .	0.2	*	*	*	*	0.0	0.1	0.3	0.5	0.3	0.0
All other . . . . .	84.6	4.1	97.4	69.2	137.4	148.5	118.7	74.4	32.0	6.8	0.4
First child . . . . .	32.7	4.0	67.4	55.6	84.1	57.5	35.7	16.8	5.6	1.1	0.1
Second child . . . . .	25.2	0.1	22.6	11.7	38.2	48.6	37.9	23.5	8.7	1.3	0.0
Third child . . . . .	14.5	*	6.0	1.8	12.1	26.6	24.4	16.5	7.2	1.3	0.1
Fourth child . . . . .	6.7	*	1.2	0.2	2.6	10.8	11.7	8.6	4.4	0.9	0.0
Fifth child . . . . .	2.9	*	0.2	*	0.4	3.7	5.2	4.3	2.5	0.7	0.0
Sixth and seventh child . . . . .	1.9	*	0.0	*	0.0	1.3	3.2	3.4	2.3	0.8	0.1
Eighth child and over . . . . .	0.6	*	*	*	*	0.1	0.6	1.2	1.3	0.7	0.1
Black <sup>2</sup> . . . . .	85.8	5.0	110.4	80.0	153.2	157.1	112.6	65.1	26.8	5.5	0.3
First child . . . . .	32.7	4.8	75.8	64.0	92.5	58.4	29.3	12.2	3.9	0.7	0.0
Second child . . . . .	25.3	0.2	26.0	13.7	43.3	52.1	36.6	19.4	6.6	0.9	0.0
Third child . . . . .	15.2	*	7.0	2.1	13.9	29.2	25.4	15.9	6.3	1.1	0.0
Fourth child . . . . .	7.1	*	1.4	0.2	3.0	11.9	12.2	8.9	4.3	0.9	0.0
Fifth child . . . . .	3.0	*	0.2	*	0.4	4.0	5.4	4.4	2.5	0.6	0.0
Sixth and seventh child . . . . .	1.9	*	0.0	*	0.1	1.4	3.2	3.3	2.2	0.7	0.0
Eighth child and over . . . . .	0.6	*	*	*	*	0.1	0.6	1.1	1.0	0.5	0.1
<b>Race of child</b>											
White . . . . .	64.7	0.7	47.2	27.5	72.6	105.7	114.3	75.3	28.8	4.8	0.2
First child . . . . .	26.9	0.7	37.5	24.4	54.2	53.0	43.2	20.2	6.2	0.9	0.0
Second child . . . . .	21.4	0.0	8.2	2.8	15.3	35.8	41.5	27.3	9.0	1.1	0.0
Third child . . . . .	10.5	*	1.3	0.2	2.7	12.7	20.1	17.0	6.8	1.0	0.0
Fourth child . . . . .	3.7	*	0.2	0.0	0.4	3.2	6.6	6.7	3.4	0.7	0.0
Fifth child . . . . .	1.3	*	0.0	*	0.0	0.7	2.0	2.4	1.5	0.4	0.0
Sixth and seventh child . . . . .	0.7	*	0.0	*	0.0	0.2	0.8	1.4	1.2	0.4	0.0
Eighth child and over . . . . .	0.2	*	*	*	*	0.0	0.1	0.3	0.5	0.3	0.0
All other . . . . .	90.6	4.2	102.8	72.1	146.4	159.2	127.6	80.4	34.7	7.3	0.4
First child . . . . .	35.3	4.0	71.5	58.1	90.6	62.6	38.8	18.4	6.2	1.2	0.1
Second child . . . . .	27.0	0.1	23.7	12.0	40.3	52.2	40.9	25.4	9.5	1.4	0.0
Third child . . . . .	15.5	*	6.2	1.8	12.5	28.0	26.1	17.8	7.8	1.4	0.1
Fourth child . . . . .	7.1	*	1.2	0.2	2.6	11.2	12.4	9.3	4.7	1.0	0.0
Fifth child . . . . .	3.1	*	0.2	*	0.4	3.7	5.4	4.6	2.7	0.7	0.0
Sixth and seventh child . . . . .	2.0	*	0.0	*	0.0	1.3	3.3	3.6	2.4	0.8	0.1
Eighth child and over . . . . .	0.7	*	*	*	*	0.1	0.6	1.2	1.3	0.7	0.1

See footnotes at end of table.

Table 3. Birth rates by age of mother, live-birth order, and race of mother and of child: United States, 1989—Con.

[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]

Live-birth order and race	Age of mother										
	15-44 years <sup>1</sup>	10-14 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
			Total	15-17 years	18-19 years						
Black <sup>2</sup> . . . . .	90.4	5.0	115.0	82.4	160.8	165.5	119.0	69.4	28.7	6.0	0.3
First child . . . . .	34.7	4.9	79.3	66.1	97.9	62.4	31.4	13.3	4.4	0.8	0.0
Second child . . . . .	26.7	0.2	26.9	14.0	45.1	54.9	38.7	20.7	7.1	1.0	0.0
Third child . . . . .	15.9	*	7.1	2.1	14.3	30.4	26.7	16.9	6.7	1.2	0.0
Fourth child . . . . .	7.4	*	1.4	0.2	3.0	12.3	12.8	9.4	4.5	0.9	0.0
Fifth child . . . . .	3.1	*	0.2	*	0.4	4.1	5.6	4.6	2.6	0.7	0.0
Sixth and seventh child . . . . .	2.0	*	0.0	*	0.1	1.4	3.3	3.4	2.3	0.7	0.0
Eighth child and over . . . . .	0.6	*	*	*	*	0.1	0.6	1.1	1.1	0.6	0.1

<sup>1</sup>Rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.

<sup>2</sup>Included in All other.

Table 4. Total fertility rates and birth rates by age of mother and race: United States, 1970–89

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group, enumerated as of April 1 for 1970 and 1980 and estimated as of July 1 for all other years]

Year and race	Total fertility rate	Age of mother									
		10–14 years	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years	45–49 years
			Total	15–17 years	18–19 years						
All races											
1989	2,014.0	1.4	58.1	36.5	86.4	115.4	116.6	76.2	29.7	5.2	0.2
1988	1,932.0	1.3	53.6	33.8	81.7	111.5	113.4	73.7	27.9	4.8	0.2
1987	1,871.0	1.3	51.1	31.8	80.2	108.9	110.8	71.3	26.2	4.4	0.2
1986	1,836.0	1.3	50.6	30.6	81.0	108.2	109.2	69.3	24.3	4.1	0.2
1985	1,842.5	1.2	51.3	31.1	80.8	108.9	110.5	68.5	23.9	4.0	0.2
1984 <sup>1</sup>	1,805.5	1.2	50.9	31.1	78.3	107.3	108.3	66.5	22.8	3.9	0.2
1983 <sup>1</sup>	1,802.5	1.1	51.7	32.0	78.1	108.3	108.7	64.6	22.1	3.8	0.2
1982 <sup>1</sup>	1,828.5	1.1	52.9	32.4	80.7	111.3	111.0	64.2	21.1	3.9	0.2
1981 <sup>1</sup>	1,815.0	1.1	52.7	32.1	81.7	111.8	112.0	61.4	20.0	3.8	0.2
1980 <sup>1</sup>	1,839.5	1.1	53.0	32.5	82.1	115.1	112.9	61.9	19.8	3.9	0.2
1979 <sup>1</sup>	1,808.0	1.2	52.3	32.3	81.3	112.8	111.4	60.3	19.5	3.9	0.2
1978 <sup>1</sup>	1,760.0	1.2	51.5	32.2	79.8	109.9	108.5	57.8	19.0	3.9	0.2
1977 <sup>1</sup>	1,789.5	1.2	52.8	33.9	80.9	112.9	111.0	56.4	19.2	4.2	0.2
1976 <sup>1</sup>	1,738.0	1.2	52.8	34.1	80.5	110.3	106.2	53.6	19.0	4.3	0.2
1975 <sup>1</sup>	1,774.0	1.3	55.6	36.1	85.0	113.0	108.2	52.3	19.5	4.6	0.3
1974 <sup>1</sup>	1,835.0	1.2	57.5	37.3	88.7	117.7	111.5	53.8	20.2	4.8	0.3
1973 <sup>1</sup>	1,879.0	1.2	59.3	38.5	91.2	119.7	112.2	55.6	22.1	5.4	0.3
1972 <sup>1</sup>	2,010.0	1.2	61.7	39.0	96.9	130.2	117.7	59.8	24.8	6.2	0.4
1971 <sup>2</sup>	2,266.5	1.1	64.5	38.2	105.3	150.1	134.1	67.3	28.7	7.1	0.4
1970 <sup>2</sup>	2,480.0	1.2	68.3	38.8	114.7	157.8	145.1	73.3	31.7	8.1	0.5
White											
Race of mother:											
1989	1,921.5	0.7	48.5	28.3	74.7	108.0	116.1	76.6	29.3	4.9	0.2
Race of child:											
1989	1,885.0	0.7	47.2	27.5	72.6	105.7	114.3	75.3	28.8	4.8	0.2
1988	1,814.0	0.6	43.7	25.5	69.2	102.5	111.6	72.9	26.9	4.4	0.2
1987	1,766.5	0.6	41.9	24.1	68.6	101.1	109.5	70.8	25.2	4.0	0.2
1986	1,741.5	0.6	41.8	23.4	69.8	101.5	108.3	68.9	23.3	3.7	0.2
1985	1,754.0	0.6	42.8	24.0	70.1	102.8	110.0	68.1	22.7	3.6	0.2
1984 <sup>1</sup>	1,718.5	0.6	42.5	23.9	68.1	101.4	107.7	66.1	21.7	3.5	0.2
1983 <sup>1</sup>	1,717.5	0.6	43.6	24.8	68.3	102.6	108.0	64.0	21.0	3.5	0.2
1982 <sup>1</sup>	1,742.0	0.6	44.6	25.2	70.8	105.9	110.3	63.3	20.0	3.5	0.2
1981 <sup>1</sup>	1,726.0	0.5	44.6	25.1	71.9	106.3	111.3	60.2	18.7	3.4	0.2
1980 <sup>1</sup>	1,748.5	0.6	44.7	25.2	72.1	109.5	112.4	60.4	18.5	3.4	0.2
1979 <sup>1</sup>	1,715.5	0.6	43.7	24.7	71.0	107.0	110.8	59.0	18.3	3.5	0.2
1978 <sup>1</sup>	1,667.5	0.6	42.9	24.9	69.4	104.1	107.9	56.6	17.7	3.5	0.2
1977 <sup>1</sup>	1,703.0	0.6	44.1	26.1	70.5	107.7	110.9	55.3	18.0	3.8	0.2
1976 <sup>1</sup>	1,652.0	0.6	44.1	26.3	70.2	105.3	105.9	52.6	17.8	3.9	0.2
1975 <sup>1</sup>	1,686.0	0.6	46.4	28.0	74.0	108.2	108.1	51.3	18.2	4.2	0.2
1974 <sup>1</sup>	1,748.5	0.6	47.9	28.7	77.3	113.0	111.8	52.9	18.9	4.4	0.2
1973 <sup>1</sup>	1,783.0	0.6	49.0	29.2	79.3	114.4	112.3	54.4	20.7	4.9	0.3
1972 <sup>1</sup>	1,906.5	0.5	51.0	29.3	84.3	124.8	117.4	58.4	23.3	5.6	0.3
1971 <sup>2</sup>	2,160.5	0.5	53.6	28.5	92.3	144.9	134.0	65.4	26.9	6.4	0.4
1970 <sup>2</sup>	2,385.0	0.5	57.4	29.2	101.5	163.4	145.9	71.9	30.0	7.5	0.4

See footnotes at end of table.

Table 4. Total fertility rates and birth rates by age of mother and race: United States, 1970–89—Con.

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group, enumerated as of April 1 for 1970 and 1980 and estimated as of July 1 for all other years]

Year and race	Total fertility rate	Age of mother									
		10–14 years	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years	45–49 years
			Total	15–17 years	18–19 years						
All other											
Race of mother:											
1989	2,411.5	4.1	97.4	69.2	137.4	148.5	118.7	74.4	32.0	6.8	0.4
Race of child:											
1989	2,583.0	4.2	102.8	72.1	146.4	159.2	127.6	80.4	34.7	7.3	0.4
1988	2,462.5	4.0	95.3	67.6	137.4	152.3	122.3	77.8	33.4	7.0	0.4
1987	2,349.0	4.0	90.9	64.7	131.2	145.4	117.3	73.8	31.5	6.5	0.4
1986	2,281.5	3.9	89.7	62.7	130.9	140.4	113.8	71.5	30.3	6.3	0.4
1985	2,263.0	3.8	89.7	62.9	128.7	138.5	113.5	70.3	30.5	5.9	0.4
1984 <sup>1</sup>	2,223.5	3.7	89.0	63.3	124.8	136.4	111.5	68.5	29.2	6.0	0.4
1983 <sup>1</sup>	2,225.0	3.5	89.3	64.2	123.9	136.8	112.1	68.4	28.6	5.9	0.4
1982 <sup>1</sup>	2,265.0	3.6	91.5	65.6	128.2	139.3	114.9	69.0	28.0	6.2	0.5
1981 <sup>1</sup>	2,274.5	3.6	91.8	65.2	130.8	140.8	115.9	68.5	27.6	6.3	0.4
1980 <sup>1</sup>	2,323.0	3.9	94.9	68.3	133.2	145.0	115.5	70.8	27.9	6.5	0.4
1979 <sup>1</sup>	2,309.5	4.1	96.5	70.5	134.9	144.3	114.6	68.3	27.3	6.4	0.4
1978 <sup>1</sup>	2,264.5	4.0	96.0	70.4	134.4	142.1	111.9	65.2	26.9	6.4	0.4
1977 <sup>1</sup>	2,278.5	4.3	99.5	74.8	136.8	142.3	111.5	63.4	27.3	6.9	0.5
1976 <sup>1</sup>	2,222.5	4.3	99.9	75.5	137.2	138.9	107.6	59.5	26.9	6.9	0.5
1975 <sup>1</sup>	2,276.0	4.7	106.4	80.5	146.1	141.0	108.7	58.8	27.6	7.5	0.5
1974 <sup>1</sup>	2,338.5	4.6	111.3	84.9	153.1	145.5	109.5	59.9	28.8	7.6	0.5
1973 <sup>1</sup>	2,443.0	5.0	117.5	90.5	160.9	151.6	111.2	63.2	30.9	8.6	0.6
1972 <sup>1</sup>	2,627.5	4.7	123.8	93.8	173.3	163.4	119.3	68.9	34.8	9.9	0.7
1971 <sup>2</sup>	2,919.5	4.7	128.5	94.0	185.6	184.0	134.6	79.3	40.2	11.7	0.9
1970 <sup>2</sup>	3,066.7	4.8	133.4	95.2	195.4	196.8	140.1	82.5	42.2	12.6	0.9
Black <sup>3</sup>											
Race of mother:											
1989	2,414.0	5.0	110.4	80.0	153.2	157.1	112.6	65.1	26.8	5.5	0.3
Race of child:											
1989	2,544.5	5.0	115.0	82.4	160.8	165.5	119.0	69.4	28.7	6.0	0.3
1988	2,402.0	4.8	105.9	76.6	150.5	157.5	112.8	66.0	27.5	5.6	0.3
1987	2,294.0	4.7	100.3	72.9	142.2	149.5	109.0	63.5	26.3	5.3	0.2
1986	2,227.0	4.6	98.1	70.0	141.0	143.7	105.9	62.2	25.5	5.1	0.3
1985	2,196.0	4.5	97.4	69.8	137.1	140.8	105.1	60.7	25.5	4.9	0.3
1984 <sup>1</sup>	2,153.5	4.3	95.7	69.7	132.0	137.9	103.2	59.5	24.8	5.1	0.2
1983 <sup>1</sup>	2,150.5	4.1	95.5	70.1	130.4	137.7	103.4	59.2	24.7	5.2	0.3
1982 <sup>1</sup>	2,188.5	4.1	97.0	71.2	133.3	139.1	106.9	60.4	24.4	5.4	0.4
1981 <sup>1</sup>	2,206.0	4.1	97.1	70.6	135.9	141.2	108.3	60.4	24.2	5.6	0.3
1980 <sup>1</sup>	2,266.0	4.3	100.0	73.6	138.8	146.3	109.1	62.9	24.5	5.8	0.3
1979 <sup>1</sup>	2,263.2	4.6	101.7	75.7	140.4	146.3	108.2	60.7	24.7	6.1	0.4
1978 <sup>1</sup>	2,218.0	4.4	100.9	75.0	139.7	143.8	105.4	58.3	24.3	6.1	0.4
1977 <sup>1</sup>	2,251.0	4.7	104.7	79.6	142.9	144.4	106.4	57.5	25.4	6.6	0.5
1976 <sup>1</sup>	2,187.0	4.7	104.9	80.3	142.5	140.5	101.6	53.6	24.8	6.8	0.5
1975 <sup>1</sup>	2,243.0	5.1	111.8	85.6	152.4	142.8	102.2	53.1	25.6	7.5	0.5
1974 <sup>1</sup>	2,298.5	5.0	116.5	90.0	158.7	146.7	102.2	54.1	27.0	7.6	0.6
1973 <sup>1</sup>	2,411.0	5.4	123.1	96.0	166.6	153.1	103.9	58.1	29.4	8.6	0.6
1972 <sup>1</sup>	2,601.0	5.1	129.8	99.5	179.5	165.0	112.4	64.0	33.4	9.8	0.7
1971 <sup>2</sup>	2,902.0	5.1	134.5	99.4	192.6	186.6	128.0	74.8	38.9	11.6	0.9
1970 <sup>2</sup>	3,098.7	5.2	140.7	101.4	204.9	202.7	136.3	79.6	41.9	12.5	1.0

<sup>1</sup>Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

<sup>2</sup>Based on a 50-percent sample of births.

<sup>3</sup>Included in All other.

Table 5. Birth rates by live-birth order and race: United States, 1970 and 1980–89

[Rates are live births per 1,000 women aged 15–44 years, enumerated as of April 1 for 1970 and 1980 and estimated as of July 1 for all other years. Figures for live-birth order not stated are distributed]

Year and race	Total	Live-birth order							
		1	2	3	4	5	6 and 7	8 and over	
<b>All races</b>									
1989	69.2	28.4	22.4	11.3	4.3	1.6	0.9	0.3	
1988	67.2	27.6	22.0	10.9	4.1	1.5	0.9	0.3	
1987	65.7	27.2	21.6	10.5	3.9	1.4	0.8	0.3	
1986	65.4	27.2	21.6	10.3	3.8	1.4	0.8	0.3	
1985	66.2	27.6	22.0	10.4	3.8	1.4	0.8	0.3	
1984 <sup>1</sup>	65.4	27.4	21.7	10.1	3.7	1.4	0.9	0.3	
1983 <sup>1</sup>	65.8	27.8	21.5	10.1	3.7	1.4	0.9	0.3	
1982 <sup>1</sup>	67.3	28.6	22.0	10.2	3.8	1.4	0.9	0.3	
1981 <sup>1</sup>	67.4	29.0	21.6	10.2	3.8	1.5	0.9	0.4	
1980 <sup>1</sup>	68.4	29.5	21.8	10.3	3.9	1.5	1.0	0.4	
1970 <sup>2</sup>	87.9	34.2	24.2	13.6	7.2	3.8	3.2	1.8	
<b>White</b>									
Race of mother:									
1989	66.0	27.5	21.8	10.7	3.8	1.3	0.7	0.2	
Race of child:									
1989	64.7	26.9	21.4	10.5	3.7	1.3	0.7	0.2	
1988	63.0	26.2	21.1	10.1	3.6	1.2	0.7	0.2	
1987	62.0	25.9	20.9	9.8	3.4	1.1	0.6	0.2	
1986	61.9	26.0	20.9	9.6	3.3	1.1	0.6	0.2	
1985	63.0	26.5	21.4	9.7	3.3	1.1	0.7	0.2	
1984 <sup>1</sup>	62.2	26.4	21.1	9.4	3.2	1.1	0.7	0.2	
1983 <sup>1</sup>	62.4	26.8	20.9	9.4	3.3	1.2	0.7	0.2	
1982 <sup>1</sup>	63.9	27.7	21.3	9.5	3.3	1.2	0.7	0.3	
1981 <sup>1</sup>	63.9	28.1	20.9	9.4	3.3	1.2	0.8	0.3	
1980 <sup>1</sup>	64.7	28.4	21.0	9.5	3.4	1.3	0.8	0.3	
1970 <sup>2</sup>	84.1	32.9	23.7	13.3	6.8	3.4	2.7	1.2	
<b>All other</b>									
Race of mother:									
1989	84.6	32.7	25.2	14.5	6.7	2.9	1.9	0.6	
Race of child:									
1989	90.6	35.3	27.0	15.5	7.1	3.1	2.0	0.7	
1988	87.5	34.3	26.3	14.8	6.7	2.9	1.9	0.6	
1987	84.4	33.4	25.4	14.2	6.4	2.7	1.8	0.6	
1986	83.0	33.0	24.9	13.8	6.2	2.7	1.8	0.6	
1985	83.2	32.9	25.1	13.8	6.2	2.7	1.8	0.6	
1984 <sup>1</sup>	82.5	32.8	24.7	13.7	6.2	2.7	1.8	0.6	
1983 <sup>1</sup>	83.2	33.0	24.8	13.8	6.2	2.7	1.9	0.7	
1982 <sup>1</sup>	85.5	33.8	25.6	14.2	6.4	2.8	1.9	0.7	
1981 <sup>1</sup>	86.4	34.3	25.9	14.2	6.4	2.8	2.0	0.8	
1980 <sup>1</sup>	88.6	35.6	26.2	14.4	6.5	2.9	2.1	0.9	
1970 <sup>2</sup>	113.0	42.4	26.9	15.9	9.7	6.1	6.7	5.3	
<b>Black<sup>3</sup></b>									
Race of mother:									
1989	85.8	32.7	25.3	15.2	7.1	3.0	1.9	0.6	
Race of child:									
1989	90.4	34.7	26.7	15.9	7.4	3.1	2.0	0.6	
1988	86.6	33.5	25.8	15.1	6.9	2.9	1.8	0.5	
1987	83.8	32.8	24.9	14.5	6.5	2.8	1.7	0.5	
1986	82.4	32.5	24.5	14.1	6.3	2.7	1.7	0.5	
1985	82.2	32.4	24.5	13.9	6.3	2.7	1.8	0.6	
1984 <sup>1</sup>	81.4	32.2	24.1	13.7	6.3	2.7	1.8	0.6	
1983 <sup>1</sup>	81.7	32.3	24.1	13.7	6.3	2.8	1.8	0.6	
1982 <sup>1</sup>	84.1	33.0	24.9	14.2	6.5	2.8	1.9	0.7	
1981 <sup>1</sup>	85.4	33.8	25.2	14.3	6.6	2.9	2.0	0.8	
1980 <sup>1</sup>	88.1	35.2	25.7	14.5	6.7	3.0	2.1	0.9	
1970 <sup>2</sup>	115.4	43.3	27.1	16.1	10.0	6.4	7.0	5.6	

<sup>1</sup>Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

<sup>2</sup>Based on a 50-percent sample of births.

<sup>3</sup>Included in All other.

Table 6. Live births by race of mother and of child, birth rates, and fertility rates: United States, each division and State, 1989

[By place of residence. Birth rates per 1,000 estimated population in each area; fertility rates per 1,000 women aged 15–44 years estimated in each area]

Division and State	Number					Birth rate	Fertility rate
	All races <sup>1</sup>	Race of mother		Race of child			
		White	Black	White	Black		
United States . . . . .	4,040,958	3,192,355	673,124	3,131,991	709,395	16.3	69.2
New England . . . . .	199,524	177,871	16,120	175,065	18,142	15.3	63.8
Maine . . . . .	17,466	17,197	78	17,080	124	14.3	60.9
New Hampshire . . . . .	17,809	17,542	120	17,432	184	16.1	65.5
Vermont . . . . .	8,494	8,413	27	8,388	40	15.0	59.8
Massachusetts . . . . .	91,523	79,689	8,356	78,089	9,513	15.5	63.5
Rhode Island . . . . .	14,768	13,062	1,098	12,825	1,275	14.8	62.8
Connecticut . . . . .	49,464	41,968	6,441	41,251	7,006	15.3	65.9
Middle Atlantic . . . . .	582,093	449,917	112,440	442,021	118,758	15.4	66.4
New York . . . . .	291,449	215,781	63,257	211,904	66,286	16.2	69.0
New Jersey . . . . .	121,841	93,199	23,997	91,675	25,164	15.7	67.4
Pennsylvania . . . . .	168,803	140,937	25,186	138,442	27,308	14.0	61.7
East North Central . . . . .	658,251	531,198	114,516	523,947	119,613	15.6	66.0
Ohio . . . . .	163,952	137,188	25,216	135,177	26,836	15.0	64.4
Indiana . . . . .	83,469	73,700	8,990	72,807	9,620	14.9	63.0
Illinois . . . . .	190,308	141,652	43,418	139,435	45,085	16.3	69.2
Michigan . . . . .	148,520	116,005	29,968	114,493	30,856	16.0	66.8
Wisconsin . . . . .	72,002	62,653	6,924	62,035	7,216	14.8	63.8
West North Central . . . . .	268,017	237,345	21,106	233,886	23,093	15.0	65.4
Minnesota . . . . .	67,518	61,599	2,452	60,638	2,951	15.5	65.9
Iowa . . . . .	39,018	37,350	1,057	37,032	1,260	13.7	60.8
Missouri . . . . .	77,872	64,006	12,830	63,185	13,360	15.1	65.7
North Dakota . . . . .	9,570	8,508	70	8,303	112	14.5	63.8
South Dakota . . . . .	11,086	9,168	73	9,001	130	15.5	70.6
Nebraska . . . . .	24,216	22,217	1,381	21,941	1,546	15.0	66.0
Kansas . . . . .	38,737	34,497	3,243	33,786	3,734	15.4	68.1
South Atlantic . . . . .	682,583	472,191	196,501	465,074	201,681	15.8	67.8
Delaware . . . . .	10,730	8,023	2,538	7,955	2,589	15.9	66.2
Maryland . . . . .	78,265	51,525	23,889	50,209	24,885	16.7	68.1
District of Columbia . . . . .	11,789	1,810	9,199	1,705	9,269	19.5	77.6
Virginia . . . . .	96,798	70,675	23,342	69,636	24,104	15.9	64.5
West Virginia . . . . .	22,163	21,242	828	21,113	928	11.9	51.5
North Carolina . . . . .	102,105	69,643	29,941	68,449	30,703	15.5	65.0
South Carolina . . . . .	57,330	34,576	22,232	34,214	22,516	16.3	67.4
Georgia . . . . .	110,272	69,367	39,398	68,484	40,070	17.1	70.0
Florida . . . . .	193,131	145,330	45,134	143,309	46,617	15.2	72.3
East South Central . . . . .	232,217	165,477	64,694	164,248	65,623	15.1	63.8
Kentucky . . . . .	53,424	47,934	5,105	47,614	5,362	14.3	60.5
Tennessee . . . . .	73,178	55,100	17,430	54,539	17,867	14.8	62.3
Alabama . . . . .	62,568	40,360	21,696	40,125	21,850	15.2	64.2
Mississippi . . . . .	43,047	22,083	20,463	21,970	20,544	16.4	70.6
West South Central . . . . .	463,712	364,524	86,293	358,702	89,266	17.2	72.2
Arkansas . . . . .	35,911	27,104	8,446	26,787	8,588	14.9	66.9
Louisiana . . . . .	72,752	41,655	29,797	41,256	29,995	16.6	69.2
Oklahoma . . . . .	47,385	37,649	5,081	35,589	5,523	14.7	63.3
Texas . . . . .	307,664	258,116	42,969	255,070	45,160	18.1	75.3
Mountain . . . . .	236,895	210,619	8,019	206,790	9,749	17.5	74.2
Montana . . . . .	11,678	10,178	34	9,871	70	14.5	63.8
Idaho . . . . .	15,883	15,336	50	15,157	93	15.7	68.2
Wyoming . . . . .	6,901	6,532	75	6,447	99	14.5	58.5
Colorado . . . . .	52,711	48,302	2,754	47,476	3,252	15.9	63.1
New Mexico . . . . .	27,353	22,488	526	22,068	731	17.9	76.4
Arizona . . . . .	67,196	57,264	2,537	56,208	3,097	18.9	83.4
Utah . . . . .	35,567	33,747	214	33,250	372	20.8	89.8
Nevada . . . . .	19,606	16,772	1,829	16,313	2,035	17.6	74.3
Pacific . . . . .	717,666	583,213	53,435	562,258	63,470	18.7	78.4
Washington . . . . .	75,360	66,541	2,909	64,337	3,994	15.8	65.5
Oregon . . . . .	41,281	38,405	906	37,498	1,204	14.6	61.0
California . . . . .	569,992	464,348	48,406	448,489	56,631	19.6	82.2
Alaska . . . . .	11,666	7,945	533	7,457	705	22.1	89.7
Hawaii . . . . .	19,367	5,974	681	4,477	936	17.4	74.2

<sup>1</sup>Includes races other than white and black.

Table 7. Live births by sex and sex ratio, by race: United States, 1980–89

Year	All races			White			All other					
	Male	Female	Males per 1,000 females	Male	Female	Males per 1,000 females	Total			Black		
							Male	Female	Males per 1,000 females	Male	Female	Males per 1,000 females
Race of mother												
1989	2,069,490	1,971,468	1,050	1,637,594	1,554,761	1,053	431,896	416,707	1,036	341,716	331,408	1,031
Race of child												
1989	2,069,490	1,971,468	1,050	1,606,757	1,525,234	1,053	462,733	446,234	1,037	360,131	349,264	1,031
1988	2,002,424	1,907,086	1,050	1,562,675	1,483,487	1,053	439,749	423,599	1,038	341,441	330,535	1,033
1987	1,951,153	1,858,241	1,050	1,535,517	1,456,971	1,054	415,636	401,270	1,036	325,259	316,308	1,028
1986	1,924,868	1,831,679	1,051	1,523,914	1,446,525	1,053	400,954	385,154	1,041	315,788	305,433	1,034
1985	1,927,983	1,832,578	1,052	1,536,646	1,454,727	1,056	391,337	377,851	1,036	308,575	299,618	1,030
1984 <sup>1</sup>	1,879,490	1,789,651	1,050	1,500,326	1,423,176	1,054	379,164	366,475	1,031	300,951	291,794	1,031
1983 <sup>1</sup>	1,865,553	1,773,380	1,052	1,492,385	1,411,865	1,057	373,168	361,515	1,032	297,011	289,016	1,028
1982 <sup>1</sup>	1,885,676	1,794,861	1,051	1,509,704	1,432,350	1,054	375,972	362,511	1,037	301,121	291,520	1,033
1981 <sup>1</sup>	1,860,272	1,768,966	1,052	1,494,437	1,414,232	1,057	365,835	354,734	1,031	297,864	289,933	1,027
1980 <sup>1</sup>	1,852,616	1,759,642	1,053	1,490,140	1,408,592	1,058	362,476	351,050	1,033	299,033	290,583	1,029

<sup>1</sup>Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

Table 8. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 1989

[Rates on an annual basis per 1,000 population for specified month. Birth rates based on the total population. Fertility rates based on women aged 15–44 years]

Month	Number				Observed		Seasonally adjusted <sup>1</sup>	
	All races	White	All other		Birth rate	Fertility rate	Birth rate	Fertility rate
			Total	Black				
Total	4,040,958	3,192,355	848,603	673,124	16.3	69.2	...	...
January	320,422	250,194	70,228	55,675	15.3	64.7	16.1	68.1
February	300,391	236,248	64,143	50,948	15.8	67.1	16.2	68.7
March	339,912	269,993	69,919	55,423	16.2	68.6	16.5	69.9
April	318,779	254,933	63,846	50,245	15.7	66.4	16.0	68.0
May	336,320	269,947	66,373	51,959	16.0	67.8	16.2	68.7
June	338,973	269,889	69,084	54,736	16.6	70.6	16.4	69.5
July	356,716	280,398	76,318	61,304	16.9	71.8	16.2	69.0
August	366,579	288,345	78,234	62,522	17.4	73.8	16.4	69.7
September	357,344	281,757	75,587	60,326	17.5	74.3	16.4	69.5
October	344,161	271,320	72,841	57,646	16.3	69.2	16.3	69.4
November	325,543	256,423	69,120	54,622	15.9	67.6	16.4	69.6
December	335,818	262,908	72,910	57,718	15.9	67.5	16.3	69.2

<sup>1</sup>The method of seasonal adjustment, developed by the U.S. Bureau of the Census, is described in the X-11 Variant of the Census Method II Seasonal Adjustment Program, Technical Paper No. 15 (1967 revision).

Table 9. Average number of live births and index of occurrence, by day of week: United States, 1989

Day of week	Average number of births	Index of occurrence <sup>1</sup>
Total	11,071	100.0
Sunday	8,984	81.2
Monday	11,272	101.8
Tuesday	12,052	108.9
Wednesday	11,899	107.5
Thursday	11,844	107.0
Friday	11,964	108.1
Saturday	9,522	86.0

<sup>1</sup>Index is the ratio of the average number of births on a given day of the week to the average daily number of births for the year, multiplied by 100.



Table 10. Live births by attendant, place of delivery, and race of mother and of child: United States, 1989

Place of delivery and race	All births	Attendant							
		Physician				Midwife			
		Total	Doctor of medicine	Doctor of osteopathy	Total	Certified nurse midwife	Other midwife	Other	Un-specified
All races <sup>1</sup>	4,040,958	3,856,842	3,742,315	114,527	147,293	132,286	15,007	26,737	10,086
In hospital <sup>2</sup>	3,991,448	3,842,313	3,729,345	112,968	125,451	122,892	2,559	14,983	8,701
Not in hospital	47,214	12,970	11,450	1,520	21,766	9,366	12,400	11,707	771
Freestanding birthing center	14,273	5,016	4,388	628	8,990	5,678	3,312	235	32
Clinic or doctor's office	1,111	769	553	216	173	107	66	168	1
Residence	27,748	5,790	5,170	620	11,383	3,412	7,971	9,919	656
Other	4,082	1,395	1,339	56	1,220	169	1,051	1,385	82
Not specified	2,296	1,559	1,520	39	76	28	48	47	614
Race of mother									
White	3,192,355	3,055,680	2,959,315	96,365	111,543	97,921	13,622	18,941	6,191
In hospital <sup>2</sup>	3,150,804	3,044,933	2,949,993	94,940	90,612	89,067	1,545	10,092	5,167
Not in hospital	39,566	9,346	7,952	1,394	20,860	8,828	12,032	8,819	541
Freestanding birthing center	13,432	4,520	3,934	586	8,658	5,404	3,254	223	31
Clinic or doctor's office	890	646	436	210	154	99	55	90	-
Residence	22,443	3,437	2,883	554	10,883	3,181	7,702	7,664	459
Other	2,801	743	699	44	1,165	144	1,021	842	51
Not specified	1,985	1,401	1,370	31	71	26	45	30	483
Black	673,124	636,536	622,168	14,368	26,776	25,711	1,065	6,492	3,320
In hospital <sup>2</sup>	666,968	633,315	619,043	14,272	26,285	25,381	904	4,312	3,056
Not in hospital	5,890	3,085	2,994	91	489	329	160	2,164	152
Freestanding birthing center	541	355	321	34	180	162	18	5	1
Clinic or doctor's office	113	64	63	1	9	4	5	39	1
Residence	4,189	2,104	2,054	50	265	144	121	1,691	129
Other	1,047	562	556	6	35	19	16	429	21
Not specified	266	136	131	5	2	1	1	16	112
Race of child									
White	3,131,991	2,998,649	2,904,308	94,341	108,738	95,322	13,416	18,540	6,064
In hospital <sup>2</sup>	3,091,172	2,988,073	2,895,144	92,929	88,156	86,644	1,512	9,887	5,056
Not in hospital	38,850	9,187	7,805	1,382	20,511	8,652	11,859	8,624	528
Freestanding birthing center	13,245	4,456	3,875	581	8,540	5,308	3,232	218	31
Clinic or doctor's office	874	635	427	208	149	95	54	90	-
Residence	21,974	3,364	2,815	549	10,666	3,108	7,558	7,496	448
Other	2,757	732	688	44	1,156	141	1,015	820	49
Not specified	1,969	1,389	1,359	30	71	26	45	29	480
Black	709,395	670,786	655,151	15,635	28,469	27,321	1,148	6,748	3,392
In hospital <sup>2</sup>	702,869	667,466	651,933	15,533	27,827	26,899	928	4,461	3,115
Not in hospital	6,247	3,174	3,077	97	640	421	219	2,270	163
Freestanding birthing center	629	376	339	37	244	211	33	8	1
Clinic or doctor's office	115	66	65	1	9	4	5	39	1
Residence	4,425	2,159	2,106	53	347	185	162	1,780	139
Other	1,078	573	567	6	40	21	19	443	22
Not specified	279	146	141	5	2	1	1	17	114

<sup>1</sup>Includes races other than white and black.

<sup>2</sup>Includes births occurring en route to or on arrival at hospital.

Table 11. Live births by age of father and mother and race of father and of child: United States, 1989

Age of mother and race	Total	Age of father										
		Under 15 years	15-19 years	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	Not stated
All races <sup>1</sup>	4,040,958	547	119,279	613,296	1,055,660	921,519	450,521	154,522	43,256	12,808	10,664	658,886
Under 15 years	11,486	113	2,220	762	154	32	13	3	-	1	41	8,147
15-19 years	506,503	269	92,175	155,337	35,918	7,476	1,959	675	248	86	1,069	211,291
20-24 years	1,077,598	93	22,349	369,166	341,851	84,159	21,198	6,731	2,229	819	1,603	227,400
25-29 years	1,263,098	42	2,031	73,403	562,002	373,683	90,577	24,415	7,056	2,249	2,102	125,538
30-34 years	842,395	20	380	11,978	99,904	399,347	200,313	50,679	12,936	3,778	2,502	60,558
35-39 years	293,878	8	94	2,342	14,353	52,794	127,315	55,280	13,856	3,860	2,251	21,725
40-44 years	44,401	2	27	294	1,433	3,941	8,997	16,484	6,424	1,814	997	3,988
45-49 years	1,599	-	3	14	45	87	149	255	507	201	99	239
Race of father												
White	2,878,619	230	87,245	494,956	901,956	789,284	377,593	126,231	33,751	9,363	5,787	52,223
Under 15 years	2,126	42	1,136	513	108	24	9	3	-	1	1	289
15-19 years	238,338	125	66,906	121,643	28,503	5,819	1,523	519	177	70	124	12,929
20-24 years	714,367	34	17,192	300,785	286,339	68,027	16,576	5,192	1,678	582	560	17,402
25-29 years	981,866	19	1,596	60,047	488,458	318,468	73,877	19,423	5,394	1,587	1,149	11,848
30-34 years	674,981	7	307	9,747	85,318	348,427	168,957	41,254	10,064	2,711	1,655	6,534
35-39 years	232,156	1	81	1,957	12,007	45,191	109,026	45,881	10,921	2,926	1,542	2,623
40-44 years	33,747	2	26	253	1,186	3,261	7,510	13,770	5,132	1,352	699	556
45-49 years	1,038	-	1	11	37	67	115	189	385	134	57	42
Black	419,523	150	26,440	95,074	110,717	82,319	42,940	17,466	6,428	2,426	1,907	33,656
Under 15 years	1,815	64	978	194	37	6	4	-	-	-	1	531
15-19 years	64,770	72	20,999	27,141	5,362	1,168	307	111	55	14	40	9,501
20-24 years	127,430	5	4,069	55,302	41,252	10,800	3,177	1,121	441	198	194	10,871
25-29 years	120,865	4	330	10,471	52,169	34,411	10,403	3,519	1,292	531	442	7,293
30-34 years	73,973	3	56	1,687	10,153	30,855	18,073	5,930	2,032	778	546	3,860
35-39 years	26,258	2	6	253	1,597	4,671	10,149	5,267	1,864	615	463	1,371
40-44 years	4,265	-	1	24	143	398	815	1,490	699	270	203	222
45-49 years	147	-	1	2	4	10	12	28	45	20	18	7
Race of child												
White	3,131,991	316	86,757	490,688	894,040	783,135	374,326	124,812	33,161	9,118	6,928	328,710
Under 15 years	4,527	44	1,130	513	107	24	8	3	-	-	20	2,678
15-19 years	331,204	158	66,610	121,204	28,390	5,807	1,508	514	182	69	667	106,095
20-24 years	806,056	65	17,030	298,324	284,260	67,450	16,397	5,079	1,647	560	988	114,256
25-29 years	1,024,006	31	1,584	59,013	484,614	316,393	73,106	19,128	5,253	1,540	1,321	62,023
30-34 years	691,735	12	297	9,479	83,830	345,851	167,595	40,688	9,850	2,617	1,664	29,852
35-39 years	238,202	4	80	1,900	11,664	44,398	108,210	45,487	10,744	2,865	1,512	11,338
40-44 years	35,111	2	24	244	1,141	3,151	7,386	13,717	5,089	1,329	699	2,329
45-49 years	1,150	-	2	11	34	61	116	196	396	138	57	139
Black	709,395	210	27,827	99,243	115,208	85,544	44,579	18,219	6,707	2,569	2,988	306,301
Under 15 years	6,640	67	1,019	203	39	7	5	-	-	1	21	5,278
15-19 years	156,969	96	22,047	28,297	5,611	1,240	326	119	58	15	393	98,767
20-24 years	227,099	28	4,343	57,591	42,886	11,339	3,350	1,197	470	213	567	105,115
25-29 years	176,748	11	350	11,050	54,150	35,622	10,854	3,674	1,349	558	633	58,497
30-34 years	100,906	6	59	1,800	10,645	31,972	18,653	6,173	2,126	828	641	28,003
35-39 years	35,191	2	7	274	1,714	4,918	10,518	5,474	1,939	645	503	9,197
40-44 years	5,633	-	1	26	159	434	860	1,554	718	287	211	1,383
45-49 years	209	-	1	2	4	12	13	28	47	22	19	61

<sup>1</sup>Includes races other than white and black, and births with race of father not stated.

Table 12. Birth rates by age of father and race: United States, 1985-89

[Rates are live births per 1,000 men in specified group, estimated as of July 1. Figures for age of father not stated are distributed]

Year and race	Age of father									
	15-54 years <sup>1</sup>	15-19 years <sup>2</sup>	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years	55 years and over
All races										
1989 . . . . .	57.3	22.4	89.2	113.8	92.3	50.8	20.6	7.4	2.7	0.6
1988 . . . . .	55.9	20.0	85.5	111.1	91.0	49.5	20.0	7.1	2.6	0.4
1987 . . . . .	55.0	18.6	83.0	109.4	89.3	48.2	19.1	6.9	2.5	0.4
1986 . . . . .	54.9	18.1	82.3	109.1	88.7	46.5	18.4	6.7	2.5	0.4
1985 . . . . .	55.7	18.2	82.8	111.9	89.7	47.0	18.1	6.6	2.5	0.4
White										
Race of father:										
1989 . . . . .	53.2	17.1	79.1	109.8	90.2	48.2	18.7	6.3	2.1	0.4
Race of child:										
1989 . . . . .	52.5	16.8	77.9	108.3	89.0	47.5	18.3	6.1	2.0	0.4
1988 . . . . .	51.4	14.9	75.2	106.1	87.6	46.1	17.7	5.9	2.0	0.2
1987 . . . . .	50.9	13.9	73.9	105.0	86.3	44.9	17.0	5.7	1.9	0.2
1986 . . . . .	50.9	13.7	74.0	105.2	85.9	43.3	16.3	5.5	1.9	0.3
1985 . . . . .	51.9	14.0	75.1	108.2	87.0	43.7	16.0	5.4	1.9	0.3
All other										
Race of father:										
1989 . . . . .	79.7	44.5	137.2	135.3	104.1	66.7	33.6	14.6	6.3	2.2
Race of child:										
1989 . . . . .	83.9	45.8	142.8	143.1	110.4	71.0	36.1	15.8	6.8	2.3
1988 . . . . .	81.3	41.7	134.9	137.8	109.7	69.7	35.6	15.5	7.0	1.4
1987 . . . . .	78.6	39.0	127.8	133.7	106.0	68.5	34.3	14.9	6.6	1.3
1986 . . . . .	77.5	37.7	124.2	131.2	105.0	67.5	32.9	14.6	6.8	1.3
1985 . . . . .	77.9	37.4	122.8	132.9	105.7	69.1	33.1	14.4	6.7	1.3
Black <sup>3</sup>										
Race of father:										
1989 . . . . .	84.2	52.2	157.3	141.8	98.6	61.4	32.7	15.1	6.6	2.5
Race of child:										
1989 . . . . .	85.6	52.9	159.5	144.1	100.3	62.4	33.4	15.4	6.8	2.5
1988 . . . . .	82.0	48.1	149.2	138.5	99.0	60.2	32.6	14.7	6.8	1.3
1987 . . . . .	79.5	44.6	140.4	134.6	96.7	60.0	31.9	14.2	6.5	1.3
1986 . . . . .	78.3	42.8	135.2	132.2	96.9	59.8	30.6	14.0	6.7	1.2
1985 . . . . .	78.2	42.0	132.7	133.3	96.9	61.1	30.8	13.7	6.5	1.2

<sup>1</sup>Rates computed by relating total births, regardless of age of father, to men aged 15-54 years.

<sup>2</sup>Rates computed by relating births of fathers under 20 years of age to men aged 15-19 years.

<sup>3</sup>Included in All other.

Table 13. Number and percent low birth weight and live births by birth weight, age of mother, and race of mother and of child: United States, 1989

Age of mother and race	Low birth weight <sup>1</sup>		Total	Birth weight <sup>2</sup>											Not stated
	Number	Percent		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	
All races . . . . .	284,391	7.0	4,040,958	5,465	19,880	26,444	54,301	178,301	649,004	1,477,630	1,183,050	368,154	65,196	8,300	5,233
Under 15 years . . . . .	1,539	13.4	11,486	32	139	182	317	869	2,809	4,496	2,134	438	37	8	25
15-19 years . . . . .	46,938	9.3	506,503	850	3,385	4,690	9,043	28,970	103,900	198,537	122,954	29,071	3,922	477	704
15 years . . . . .	3,019	11.3	26,730	72	266	303	584	1,794	6,224	10,682	5,560	1,059	127	13	46
16 years . . . . .	6,055	10.6	57,279	114	494	629	1,205	3,613	12,576	22,634	12,822	2,752	322	33	85
17 years . . . . .	9,343	9.6	97,035	155	656	977	1,808	5,747	20,584	38,230	22,850	5,175	650	78	125
18 years . . . . .	13,119	9.1	144,350	220	957	1,312	2,568	8,062	29,497	56,553	35,369	8,359	1,111	144	198
19 years . . . . .	15,402	8.5	181,109	289	1,012	1,469	2,878	9,754	35,019	70,438	46,353	11,726	1,712	209	250
20-24 years . . . . .	77,649	7.2	1,077,598	1,499	5,265	7,064	14,339	49,482	187,364	409,332	301,276	85,182	13,932	1,559	1,304
25-29 years . . . . .	78,731	6.2	1,263,098	1,510	5,406	7,030	14,773	50,012	188,362	457,895	387,911	123,782	22,036	2,810	1,571
30-34 years . . . . .	54,532	6.5	842,395	1,098	3,890	5,090	10,541	33,913	118,189	292,761	265,034	91,305	17,227	2,227	1,120
35-39 years . . . . .	21,098	7.2	293,878	421	1,543	2,015	4,402	12,717	41,483	99,536	90,330	33,149	6,857	1,019	406
40-44 years . . . . .	3,737	8.4	44,401	52	239	353	854	2,239	6,626	14,540	12,992	5,081	1,138	192	95
45-49 years . . . . .	167	10.5	1,599	3	13	20	32	99	271	533	419	146	47	8	8
Race of mother															
White . . . . .	182,335	5.7	3,192,355	2,950	11,346	16,042	34,600	117,397	455,048	1,152,663	1,005,114	327,570	58,747	7,224	3,654
Under 15 years . . . . .	470	10.2	4,630	9	46	55	97	263	936	1,836	1,080	272	22	5	9
15-19 years . . . . .	25,545	7.5	340,472	385	1,696	2,465	4,823	16,176	61,406	132,699	92,945	23,765	3,330	386	396
15 years . . . . .	1,190	8.6	13,869	24	109	124	236	697	2,743	5,589	3,456	762	93	9	27
16 years . . . . .	2,925	8.6	34,133	45	239	316	575	1,750	6,499	13,467	8,860	2,070	248	22	42
17 years . . . . .	5,029	7.9	63,734	71	309	493	961	3,195	11,983	24,886	16,989	4,180	538	62	67
18 years . . . . .	7,475	7.5	99,302	114	503	724	1,448	4,686	17,972	38,726	27,021	6,908	972	123	105
19 years . . . . .	8,926	6.9	129,434	131	536	808	1,603	5,848	22,209	50,031	36,619	9,845	1,479	170	155
20-24 years . . . . .	47,527	5.8	824,189	736	2,809	4,076	8,743	31,163	127,264	310,416	250,168	74,281	12,357	1,326	850
25-29 years . . . . .	53,000	5.1	1,040,659	833	3,184	4,448	9,849	34,686	139,964	373,430	338,701	111,877	20,077	2,473	1,137
30-34 years . . . . .	38,059	5.4	702,963	675	2,446	3,388	7,361	24,189	89,142	241,401	232,835	82,964	15,721	1,978	863
35-39 years . . . . .	14,949	6.2	242,467	276	987	1,364	3,099	9,223	31,240	81,007	78,086	29,817	6,174	881	313
40-44 years . . . . .	2,659	7.4	35,795	34	167	232	602	1,624	4,921	11,494	10,973	4,476	1,024	168	80
45-49 years . . . . .	126	10.7	1,180	2	11	14	26	73	175	380	326	118	42	7	6
Black . . . . .	90,720	13.5	673,124	2,376	7,976	9,462	17,741	53,165	159,423	253,468	133,422	29,383	4,578	752	1,378
Under 15 years . . . . .	1,037	15.8	6,560	21	89	126	217	584	1,797	2,543	1,002	149	13	3	16
15-19 years . . . . .	20,148	13.4	150,699	456	1,614	2,116	3,988	11,974	39,182	59,763	26,343	4,426	470	77	290
15 years . . . . .	1,749	14.5	12,048	47	151	169	331	1,051	3,289	4,773	1,929	258	28	4	18
16 years . . . . .	2,963	13.9	21,412	69	242	302	596	1,754	5,691	8,472	3,590	587	59	9	41
17 years . . . . .	4,068	13.4	30,372	79	331	461	806	2,391	7,957	12,188	5,164	833	94	14	54
18 years . . . . .	5,336	13.1	40,868	104	437	558	1,066	3,171	10,637	16,180	7,308	1,199	105	16	87
19 years . . . . .	6,032	13.1	45,999	157	453	626	1,189	3,607	11,608	18,150	8,352	1,549	184	34	90
20-24 years . . . . .	27,659	12.9	215,557	735	2,348	2,782	5,210	16,584	52,302	83,504	41,810	8,520	1,184	174	404
25-29 years . . . . .	22,544	13.5	167,260	638	2,087	2,327	4,387	13,105	37,598	61,479	35,151	8,477	1,402	235	374
30-34 years . . . . .	13,706	14.5	94,766	385	1,315	1,487	2,704	7,815	20,660	33,148	20,446	5,418	1,009	167	212
35-39 years . . . . .	4,821	14.7	32,845	126	468	531	1,042	2,654	6,789	11,189	7,434	2,036	428	77	71
40-44 years . . . . .	774	14.8	5,236	15	53	88	190	428	1,052	1,779	1,189	346	69	18	9
45-49 years . . . . .	31	15.6	201	-	2	5	3	21	43	63	47	11	3	1	2

Race of child															
White . . . . .	178,152	5.7	3,131,991	2,891	11,057	15,669	33,778	114,757	445,323	1,130,410	987,398	322,238	57,772	7,104	3,594
Under 15 years . . . . .	459	10.2	4,527	8	46	55	93	257	915	1,798	1,055	264	22	5	9
15-19 years . . . . .	24,841	7.5	331,204	371	1,636	2,394	4,688	15,752	59,709	129,050	90,469	23,129	3,241	377	388
15 years . . . . .	1,159	8.6	13,517	24	103	121	228	683	2,671	5,437	3,382	742	91	8	27
16 years . . . . .	2,844	8.6	33,236	44	230	307	563	1,700	6,344	13,111	8,626	2,012	238	20	41
17 years . . . . .	4,898	7.9	62,080	67	302	480	934	3,115	11,637	24,252	16,558	4,074	536	58	67
18 years . . . . .	7,271	7.5	96,567	109	483	703	1,414	4,562	17,498	37,630	26,281	6,722	939	122	104
19 years . . . . .	8,669	6.9	125,804	127	518	783	1,549	5,692	21,559	48,620	35,622	9,579	1,437	169	149
20-24 years . . . . .	46,334	5.8	806,056	725	2,726	3,980	8,502	30,401	124,324	303,564	244,832	72,766	12,105	1,303	828
25-29 years . . . . .	51,930	5.1	1,024,006	826	3,115	4,367	9,655	33,967	137,354	367,425	333,649	110,312	19,780	2,435	1,121
30-34 years . . . . .	37,238	5.4	691,735	663	2,398	3,297	7,184	23,696	87,434	237,401	229,512	81,860	15,490	1,946	854
35-39 years . . . . .	14,622	6.1	238,202	265	962	1,335	3,035	9,025	30,596	79,520	76,808	29,394	6,083	870	309
40-44 years . . . . .	2,607	7.4	35,111	31	164	228	595	1,589	4,821	11,282	10,753	4,396	1,010	163	79
45-49 years . . . . .	121	10.6	1,150	2	10	13	26	70	170	370	320	117	41	5	6
Black . . . . .	93,377	13.2	709,395	2,409	8,174	9,703	18,261	54,830	165,275	266,554	144,059	32,687	5,184	836	1,423
Under 15 years . . . . .	1,044	15.8	6,640	21	89	126	220	588	1,814	2,574	1,020	156	13	3	16
15-19 years . . . . .	20,639	13.2	156,969	467	1,657	2,165	4,081	12,269	40,317	62,212	28,023	4,858	536	84	300
15 years . . . . .	1,772	14.4	12,294	47	155	172	338	1,060	3,343	4,875	1,982	272	28	4	18
16 years . . . . .	3,020	13.7	22,015	70	247	308	600	1,795	5,792	8,711	3,750	622	67	11	42
17 years . . . . .	4,156	13.2	31,476	82	337	472	823	2,442	8,176	12,623	5,448	906	95	17	55
18 years . . . . .	5,469	12.8	42,702	108	450	572	1,090	3,249	10,928	16,937	7,809	1,324	130	17	88
19 years . . . . .	6,222	12.9	48,482	160	468	641	1,230	3,723	12,078	19,066	9,034	1,734	216	35	97
20-24 years . . . . .	28,454	12.6	227,099	741	2,415	2,845	5,361	17,092	54,181	87,756	45,244	9,514	1,339	190	421
25-29 years . . . . .	23,197	13.2	176,748	640	2,130	2,379	4,503	13,545	39,075	64,813	38,035	9,416	1,566	261	385
30-34 years . . . . .	14,194	14.1	100,906	391	1,342	1,542	2,817	8,102	21,594	35,281	22,216	6,056	1,160	189	216
35-39 years . . . . .	5,010	14.3	35,191	133	483	549	1,081	2,764	7,135	11,962	8,144	2,293	488	86	73
40-44 years . . . . .	806	14.3	5,633	16	56	92	195	447	1,115	1,892	1,327	383	79	21	10
45-49 years . . . . .	33	15.9	209	-	2	5	3	23	44	64	50	11	3	2	2

<sup>1</sup>Less than 2,500 grams (5 lb 8 oz).

<sup>2</sup>Equivalents of gram weights in terms of pounds and ounces are shown in Technical notes.

Table 14. Number and percent of births of low birth weight, by race of mother and of child: United States and each State, 1989  
[By place of residence]

State	Number <sup>1</sup>					Percent <sup>1</sup>				
	All races <sup>2</sup>	Race of mother		Race of child		All races <sup>2</sup>	Race of mother		Race of child	
		White	Black	White	Black		White	Black	White	Black
United States . . . . .	284,391	182,335	90,720	178,152	93,377	7.0	5.7	13.5	5.7	13.2
Alabama . . . . .	5,169	2,481	2,657	2,469	2,666	8.3	6.2	12.3	6.2	12.2
Alaska . . . . .	572	358	46	335	60	4.9	4.5	8.7	4.5	8.5
Arizona . . . . .	4,262	3,471	355	3,409	377	6.3	6.1	14.0	6.1	12.2
Arkansas . . . . .	2,973	1,784	1,164	1,760	1,176	8.3	6.6	13.8	6.6	13.7
California . . . . .	34,764	24,622	6,624	23,572	7,190	6.1	5.3	13.7	5.3	12.7
Colorado . . . . .	4,088	3,565	392	3,503	426	7.8	7.4	14.2	7.4	13.1
Connecticut . . . . .	3,414	2,395	938	2,331	992	6.9	5.7	14.6	5.7	14.2
Delaware . . . . .	801	460	331	453	338	7.5	5.7	13.1	5.7	13.1
District of Columbia . . . . .	1,867	116	1,687	108	1,693	15.9	6.4	18.4	6.3	18.3
Florida . . . . .	14,808	8,743	5,841	8,599	5,944	7.7	6.0	13.0	6.0	12.8
Georgia . . . . .	9,202	4,047	5,075	3,993	5,114	8.4	5.8	12.9	5.8	12.8
Hawaii . . . . .	1,378	335	74	258	87	7.1	5.6	10.9	5.8	9.3
Idaho . . . . .	879	836	3	819	7	5.5	5.5	*	5.4	*
Illinois . . . . .	14,645	7,963	6,284	7,797	6,416	7.7	5.6	14.5	5.6	14.3
Indiana . . . . .	5,488	4,307	1,135	4,225	1,193	6.6	5.9	12.7	5.8	12.4
Iowa . . . . .	2,116	1,960	116	1,933	134	5.4	5.3	11.0	5.2	10.6
Kansas . . . . .	2,370	1,887	417	1,845	447	6.1	5.5	12.9	5.5	12.0
Kentucky . . . . .	3,657	3,031	607	3,013	621	6.9	6.3	11.9	6.3	11.6
Louisiana . . . . .	6,626	2,549	3,994	2,523	4,001	9.1	6.1	13.4	6.1	13.4
Maine . . . . .	851	840	5	835	5	4.9	4.9	*	4.9	*
Maryland . . . . .	6,260	2,956	3,118	2,862	3,187	8.0	5.8	13.1	5.7	12.9
Massachusetts . . . . .	5,388	4,246	916	4,133	998	5.9	5.3	11.0	5.3	10.5
Michigan . . . . .	11,275	6,505	4,592	6,418	4,647	7.6	5.6	15.4	5.6	15.1
Minnesota . . . . .	3,309	2,761	325	2,707	357	4.9	4.5	13.3	4.5	12.1
Mississippi . . . . .	4,043	1,437	2,570	1,427	2,575	9.4	6.5	12.6	6.5	12.5
Missouri . . . . .	5,386	3,648	1,678	3,580	1,723	6.9	5.7	13.1	5.7	12.9
Montana . . . . .	647	553	2	537	3	5.5	5.4	*	5.4	*
Nebraska . . . . .	1,402	1,164	193	1,142	206	5.8	5.2	14.0	5.2	13.3
Nevada . . . . .	1,410	1,055	287	1,034	296	7.2	6.3	15.7	6.3	14.6
New Hampshire . . . . .	909	893	11	888	15	5.1	5.1	*	5.1	*
New Jersey . . . . .	8,902	5,243	3,334	5,109	3,437	7.3	5.6	13.9	5.6	13.7
New Mexico . . . . .	1,896	1,557	60	1,524	73	7.0	6.9	11.5	6.9	10.1
New York . . . . .	22,282	12,868	8,638	12,581	8,869	7.7	6.0	13.7	6.0	13.4
North Carolina . . . . .	8,270	4,180	3,897	4,086	3,953	8.1	6.0	13.0	6.0	12.9
North Dakota . . . . .	481	416	3	406	5	5.0	4.9	*	4.9	*
Ohio . . . . .	11,512	8,022	3,417	7,854	3,553	7.0	5.9	13.6	5.8	13.3
Oklahoma . . . . .	3,068	2,230	596	2,103	623	6.5	5.9	11.7	5.9	11.3
Oregon . . . . .	2,151	1,914	113	1,866	132	5.2	5.0	12.5	5.0	11.0
Pennsylvania . . . . .	11,943	7,976	3,744	7,743	3,955	7.1	5.7	14.9	5.6	14.5
Rhode Island . . . . .	909	729	130	711	146	6.2	5.6	12.0	5.6	11.6
South Carolina . . . . .	5,268	2,248	2,983	2,219	3,008	9.2	6.5	13.4	6.5	13.4
South Dakota . . . . .	594	467	6	455	11	5.4	5.1	*	5.1	*
Tennessee . . . . .	6,011	3,589	2,386	3,541	2,428	8.2	6.5	13.7	6.5	13.6
Texas . . . . .	21,462	15,406	5,612	15,200	5,765	7.0	6.0	13.1	6.0	12.8
Utah . . . . .	2,014	1,894	31	1,868	40	5.7	5.6	14.5	5.6	10.8
Vermont . . . . .	462	456	1	456	1	5.5	5.4	*	5.5	*
Virginia . . . . .	6,872	3,835	2,870	3,778	2,910	7.1	5.4	12.3	5.4	12.1
Washington . . . . .	4,219	3,489	362	3,351	439	5.6	5.3	12.5	5.2	11.0
West Virginia . . . . .	1,472	1,353	114	1,346	121	6.6	6.4	13.8	6.4	13.0
Wisconsin . . . . .	4,141	3,025	973	2,982	999	5.8	4.8	14.1	4.8	13.8
Wyoming . . . . .	503	470	13	465	15	7.3	7.2	*	7.2	*

<sup>1</sup>Less than 2,500 grams (5 lb 8 oz).<sup>2</sup>Includes races other than white and black.

Table 15. Live births by plurality of birth, age of mother, and race of mother: United States, 1989

Age of mother	All live births						Single live births			Live births in triplet and other plural deliveries		
	All live births			Single live births			Live births in twin deliveries			Live births in triplet and other plural deliveries		
	All races <sup>1</sup>	White	Black	All races <sup>1</sup>	White	Black	All races <sup>1</sup>	White	Black	All races <sup>1</sup>	White	Black
All ages	4,040,958	3,192,355	673,124	3,948,042	3,120,499	655,018	90,118	69,373	17,844	2,798	2,483	262
Under 15 years	11,486	4,630	6,560	11,357	4,568	6,495	129	62	65	-	-	-
15-19 years	506,503	340,472	150,699	499,474	336,307	148,030	6,953	4,114	2,644	76	51	25
15 years	26,730	13,869	12,048	26,437	13,729	11,909	290	137	139	3	3	-
16 years	57,279	34,133	21,412	56,573	33,782	21,073	699	347	336	7	4	3
17 years	97,035	63,734	30,372	95,867	63,069	29,913	1,161	661	456	7	4	3
18 years	144,350	99,302	40,868	142,328	98,072	40,122	1,993	1,206	741	29	24	5
19 years	181,109	129,434	45,999	178,269	127,655	45,013	2,810	1,763	972	30	16	14
20-24 years	1,077,598	824,189	215,557	1,056,371	809,201	209,912	20,928	14,754	5,585	299	234	60
25-29 years	1,263,098	1,040,659	167,260	1,232,596	1,016,382	162,001	29,564	23,456	5,169	938	821	90
30-34 years	842,395	702,963	94,766	818,415	682,969	91,601	22,891	18,975	3,113	1,089	1,019	52
35-39 years	293,878	242,467	32,845	284,953	235,022	31,678	8,572	7,127	1,135	353	318	32
40-44 years	44,401	35,795	5,236	43,298	34,887	5,104	1,067	875	129	36	33	3
45-49 years	1,599	1,180	201	1,578	1,163	197	14	10	4	7	7	-

<sup>1</sup>Includes races other than white and black.

Table 16. Numbers, rates, and ratios of births to unmarried women, by age of mother and race of mother and of child: United States, 1989

Age of mother	Number				Rate per 1,000 unmarried women in specified group				Ratio per 1,000 live births			
	All races	White	All other		All races	White	All other		All races	White	All other	
			Total	Black			Total	Black			Total	Black
Race of mother												
All ages	1,094,169	613,543	480,626	442,395	<sup>1</sup> 41.8	<sup>1</sup> 30.1	<sup>1</sup> 82.3	<sup>1</sup> 90.0	270.8	192.2	566.4	657.2
Under 15 years	10,612	3,920	6,692	6,458	---	---	---	---	923.9	846.7	976.1	984.5
15-19 years	337,268	188,253	149,015	138,718	40.6	28.4	89.1	103.4	665.9	552.9	897.5	920.5
15 years	23,358	10,904	12,454	11,797	28.8	19.3	65.7	77.0	873.8	786.2	968.4	979.2
16 years	46,194	24,094	22,100	20,735					806.5	705.9	954.8	968.4
17 years	71,134	40,110	31,024	28,840	57.4	41.2	123.8	141.9	733.1	629.3	931.6	949.6
18 years	94,815	54,599	40,216	37,398					656.8	549.8	892.7	915.1
19 years	101,767	58,546	43,221	39,948					561.9	452.3	836.4	868.5
20-24 years	378,122	211,815	166,307	153,551	62.0	44.2	127.0	142.0	350.9	257.0	656.3	712.3
25-29 years	215,477	120,640	94,837	86,846	52.3	38.5	96.0	100.9	170.6	115.9	426.4	519.2
30-34 years	106,344	60,344	46,000	41,468	34.4	26.3	58.2	59.3	126.2	85.8	329.9	437.6
35-39 years	39,030	23,730	15,300	13,333	16.0	13.0	25.0	25.0	132.8	97.9	297.6	405.9
40 years and over	7,316	4,841	2,475	2,021	<sup>2</sup> 3.4	<sup>2</sup> 2.9	<sup>2</sup> 5.3	<sup>2</sup> 5.1	159.0	130.9	274.2	371.7
Race of child												
All ages	1,094,169	593,911	500,258	457,480	<sup>1</sup> 41.8	<sup>1</sup> 29.2	<sup>1</sup> 85.6	<sup>1</sup> 93.1	270.8	189.6	550.4	644.9
Under 15 years	10,612	3,830	6,782	6,532	---	---	---	---	923.9	846.0	974.6	983.7
15-19 years	337,268	182,370	154,898	143,207	40.6	27.5	92.6	106.7	665.9	550.6	883.6	912.3
15 years	23,358	10,612	12,746	12,016	28.8	18.8	67.9	79.0	873.8	785.1	964.7	977.4
16 years	46,194	23,397	22,797	21,244					806.5	704.0	948.2	965.0
17 years	71,134	38,962	32,172	29,694	57.4	39.8	129.4	147.3	733.1	627.6	920.4	943.4
18 years	94,815	52,846	41,969	38,729					656.8	547.2	878.3	907.0
19 years	101,767	56,553	45,214	41,524					561.9	449.5	817.5	856.5
20-24 years	378,122	205,008	173,114	158,868	62.0	42.8	132.2	147.0	350.9	254.3	637.5	699.6
25-29 years	215,477	116,758	98,719	89,811	52.3	37.3	99.9	104.3	170.6	114.0	412.9	508.1
30-34 years	106,344	58,281	48,063	43,044	34.4	25.4	60.8	61.6	126.2	84.3	319.0	426.6
35-39 years	39,030	22,976	16,054	13,885	16.0	12.5	26.2	26.1	132.8	96.5	288.3	394.6
40 years and over	7,316	4,688	2,628	2,133	<sup>2</sup> 3.4	<sup>2</sup> 2.8	<sup>2</sup> 5.6	<sup>2</sup> 5.3	159.0	129.3	269.8	365.1

<sup>1</sup>Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.

<sup>2</sup>Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.

NOTE: For 44 States and the District of Columbia, marital status of mother is reported on the birth certificate; for 6 States, mother's marital status is inferred; see Technical notes.

Table 17. Birth rates for unmarried women by age of mother and race: United States, 1970, 1975, and 1980–89

[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

Year and race	Age of mother								
	15–44 years <sup>1</sup>	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years <sup>2</sup>
		Total	15–17 years	18–19 years					
<b>All races</b>									
1989 <sup>3</sup>	41.8	40.6	28.8	57.4	62.0	52.3	34.4	16.0	3.4
1988 <sup>3</sup>	38.6	36.8	26.5	52.7	56.7	48.1	31.7	14.9	3.2
1987 <sup>3</sup>	36.1	34.1	24.5	49.9	53.1	44.3	29.3	13.5	2.9
1986 <sup>3</sup>	34.3	32.6	22.9	48.9	49.7	42.0	26.9	12.2	2.7
1985 <sup>3</sup>	32.8	31.6	22.5	46.6	46.8	39.8	25.0	11.6	2.5
1984 <sup>3,4</sup>	31.0	30.2	21.9	43.0	43.2	37.0	23.2	10.9	2.5
1983 <sup>3,4</sup>	30.4	29.7	22.1	41.0	42.0	35.6	22.3	10.3	2.5
1982 <sup>3,4</sup>	30.0	28.9	21.5	40.2	41.4	35.1	21.9	10.0	2.7
1981 <sup>3,4</sup>	29.6	28.2	20.9	39.9	40.9	34.7	20.8	9.8	2.6
1980 <sup>3,4</sup>	29.4	27.6	20.6	39.0	40.9	34.0	21.1	9.7	2.6
1980 <sup>4,5</sup>	28.4	27.5	20.7	38.7	39.7	31.4	18.5	8.4	2.3
1975 <sup>4,5</sup>	24.5	23.9	19.3	32.5	31.2	27.5	17.9	9.1	2.6
1970 <sup>5,6</sup>	26.4	22.4	17.1	32.9	38.4	37.0	27.1	13.6	3.5
<b>White</b>									
Race of mother:									
1989 <sup>3</sup>	30.1	28.4	19.3	41.2	44.2	38.5	26.3	13.0	2.9
Race of child:									
1989 <sup>3</sup>	29.2	27.5	18.8	39.8	42.8	37.3	25.4	12.5	2.8
1988 <sup>3</sup>	26.6	24.8	17.1	36.4	38.3	33.8	22.9	11.5	2.6
1987 <sup>3</sup>	24.6	22.8	15.8	34.2	35.8	30.7	21.2	10.3	2.3
1986 <sup>3</sup>	23.2	21.5	14.6	33.2	33.5	29.2	19.2	9.3	2.1
1985 <sup>3</sup>	21.8	20.5	14.2	30.9	30.9	27.3	17.5	8.6	1.9
1984 <sup>3,4</sup>	20.1	19.0	13.5	27.6	27.8	24.5	16.1	8.0	1.9
1983 <sup>3,4</sup>	19.3	18.5	13.5	26.1	26.4	22.9	15.3	7.5	1.9
1982 <sup>3,4</sup>	18.8	17.7	12.9	25.1	25.7	22.2	14.7	7.1	2.0
1981 <sup>3,4</sup>	18.2	17.1	12.4	24.6	24.9	21.6	13.6	6.9	1.8
1980 <sup>3,4</sup>	17.6	16.2	11.8	23.6	24.4	20.7	13.6	6.8	1.8
1980 <sup>4,5</sup>	16.2	15.9	11.7	22.8	22.4	17.3	10.5	5.3	1.4
1975 <sup>4,5</sup>	12.4	12.0	9.6	16.5	15.5	14.8	9.8	5.4	1.5
1970 <sup>5,6</sup>	13.9	10.9	7.5	17.6	22.5	21.1	14.2	7.6	2.0
<b>All other</b>									
Race of mother:									
1989 <sup>3</sup>	82.3	89.1	65.7	123.8	127.0	96.0	58.2	25.0	5.3
Race of child:									
1989 <sup>3</sup>	85.6	92.6	67.9	129.4	132.2	99.9	60.8	26.2	5.6
1988 <sup>3</sup>	81.8	85.9	64.1	120.3	124.3	94.6	57.9	25.4	5.5
1987 <sup>3</sup>	78.3	81.6	61.3	114.1	116.6	89.2	54.2	23.9	5.4
1986 <sup>3</sup>	74.8	79.7	59.1	112.3	109.5	82.3	50.8	21.6	4.9
1985 <sup>3</sup>	73.2	79.4	59.1	109.9	105.7	77.9	48.8	21.4	4.7
1984 <sup>3,4</sup>	71.4	78.3	59.3	106.1	101.3	75.8	45.0	20.5	4.7
1983 <sup>3,4</sup>	72.3	78.3	60.2	104.6	101.1	77.3	44.7	20.1	4.9
1982 <sup>3,4</sup>	73.9	79.2	60.7	107.0	102.1	78.9	44.4	20.0	5.4
1981 <sup>3,4</sup>	75.4	79.2	60.3	109.0	104.5	80.1	45.6	19.7	5.7
1980 <sup>3,4</sup>	77.2	81.7	63.1	111.6	106.6	79.1	46.9	19.2	5.6
1980 <sup>4,5</sup>	78.0	83.0	64.0	113.4	108.2	79.1	46.2	18.5	5.3
1975 <sup>4,5</sup>	79.0	86.3	70.7	114.3	102.1	73.2	47.9	20.0	6.9
1970 <sup>5,6</sup>	89.9	90.8	73.3	126.5	121.0	93.8	69.8	32.0	10.7

See footnotes at end of table.



Table 17. Birth rates for unmarried women by age of mother and race: United States, 1970, 1975, and 1980–89—Con.

[Rates are live births to unmarried women per 1,000 unmarried women in specified group, estimated as of July 1]

Year and race	Age of mother								
	15–44 years <sup>1</sup>	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years <sup>2</sup>
		Total	15–17 years	18–19 years					
Black <sup>7</sup>									
Race of mother:									
1989 <sup>3</sup> . . . . .	90.0	103.4	77.0	141.9	142.0	100.9	59.3	25.0	5.1
Race of child:									
1989 <sup>3</sup> . . . . .	93.1	106.7	79.0	147.3	147.0	104.3	61.6	26.1	5.3
1988 <sup>3</sup> . . . . .	88.9	98.3	74.1	136.1	138.2	99.2	58.7	25.3	5.3
1987 <sup>3</sup> . . . . .	84.7	92.6	70.4	127.5	129.9	93.6	54.2	23.5	5.1
1986 <sup>3</sup> . . . . .	80.9	89.9	67.4	125.0	121.4	86.7	51.1	21.6	4.7
1985 <sup>3</sup> . . . . .	78.8	88.8	67.0	121.1	116.1	81.4	48.8	21.3	4.5
1984 <sup>3,4</sup> . . . . .	76.8	87.1	66.8	116.2	110.7	80.0	45.0	20.3	4.5
1983 <sup>3,4</sup> . . . . .	77.7	86.4	67.1	114.0	110.0	82.0	45.3	20.3	4.9
1982 <sup>3,4</sup> . . . . .	79.6	87.0	67.6	115.8	110.2	85.5	45.8	20.1	5.4
1981 <sup>3,4</sup> . . . . .	81.4	86.8	66.9	117.6	112.5	86.4	47.2	20.4	5.8
1980 <sup>3,4</sup> . . . . .	82.9	89.2	69.6	120.2	115.1	83.9	48.2	19.6	5.6
1980 <sup>4,5</sup> . . . . .	83.2	90.3	70.6	121.8	116.0	82.9	47.0	18.5	5.5
1975 <sup>4,5</sup> . . . . .	84.2	93.5	76.8	123.8	108.0	75.7	50.0	20.5	7.2
1970 <sup>5,6</sup> . . . . .	95.5	96.9	77.9	136.4	131.5	100.9	71.8	32.9	10.4

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

Table 18. Number and ratio of births to unmarried women, by race of mother and of child: United States and each State, 1989  
 [By place of residence]

State	Number					Ratio per 1,000 live births				
	All races <sup>1</sup>	Race of mother		Race of child		All races <sup>1</sup>	Race of mother		Race of child	
		White	Black	White	Black		White	Black	White	Black
United States . . . . .	1,094,169	613,543	442,395	593,911	457,480	270.8	192.2	657.2	189.6	644.9
Alabama . . . . .	18,640	4,659	13,929	4,657	13,931	297.9	115.4	642.0	116.1	637.6
Alaska . . . . .	2,869	1,256	158	1,130	225	245.9	158.1	296.4	151.5	319.1
Arizona . . . . .	20,708	15,313	1,554	15,096	1,697	308.2	267.4	612.5	268.6	547.9
Arkansas . . . . .	9,944	4,136	5,761	4,040	5,830	276.9	152.6	682.1	150.8	678.9
California <sup>2</sup> . . . . .	171,189	133,398	30,071	127,331	34,133	300.3	287.3	621.2	283.9	602.7
Colorado . . . . .	10,787	8,987	1,465	8,943	1,499	204.6	186.1	532.0	188.4	460.9
Connecticut <sup>2</sup> . . . . .	13,005	8,461	4,260	8,117	4,571	262.9	201.6	661.4	196.8	652.4
Delaware . . . . .	3,125	1,297	1,813	1,291	1,819	291.2	161.7	714.3	162.3	702.6
District of Columbia . . . . .	7,580	235	6,985	228	6,993	643.0	129.8	759.3	133.7	754.5
Florida . . . . .	58,305	27,815	30,047	27,121	30,661	301.9	191.4	665.7	189.2	657.7
Georgia . . . . .	34,926	9,713	25,084	9,389	25,373	316.7	140.0	636.7	137.1	633.2
Hawaii . . . . .	4,609	865	103	575	144	238.0	144.8	151.2	128.4	153.8
Idaho . . . . .	2,561	2,386	15	2,348	26	161.2	155.6	*	154.9	279.6
Illinois . . . . .	58,867	25,514	32,836	24,391	33,866	309.3	180.1	756.3	174.9	751.2
Indiana . . . . .	19,898	13,379	6,410	13,090	6,662	238.4	181.5	713.0	179.8	692.5
Iowa . . . . .	7,575	6,613	811	6,517	878	194.1	177.1	767.3	176.0	696.8
Kansas . . . . .	7,577	5,424	1,967	5,189	2,164	195.6	157.2	606.5	153.6	579.5
Kentucky . . . . .	12,048	8,563	3,441	8,532	3,468	225.5	178.6	674.0	179.2	646.8
Louisiana . . . . .	25,692	5,946	19,525	5,879	19,568	353.1	142.7	655.3	142.5	652.4
Maine . . . . .	3,806	3,717	25	3,697	33	217.9	216.1	320.5	216.5	266.1
Maryland . . . . .	22,607	7,916	14,356	7,339	14,885	288.9	153.6	600.9	146.2	598.2
Massachusetts . . . . .	21,798	15,896	5,082	15,251	5,638	238.2	199.5	608.2	195.3	592.7
Michigan <sup>2</sup> . . . . .	36,441	15,685	20,365	15,654	20,390	245.4	135.2	679.6	136.7	660.8
Minnesota . . . . .	13,142	9,994	1,766	9,646	1,999	194.6	162.2	720.2	159.1	677.4
Mississippi . . . . .	16,958	2,734	14,077	2,689	14,116	393.9	123.8	687.9	122.4	687.1
Missouri . . . . .	21,123	11,336	9,620	11,062	9,867	271.3	177.1	749.8	175.1	738.5
Montana . . . . .	2,539	1,644	11	1,575	17	217.4	161.5	*	159.6	*
Nebraska . . . . .	4,662	3,412	969	3,315	1,039	192.5	153.6	701.7	151.1	672.1
Nevada <sup>2</sup> . . . . .	4,607	3,191	1,164	3,139	1,191	235.0	190.3	636.4	192.4	585.3
New Hampshire . . . . .	2,797	2,750	34	2,720	52	157.1	156.8	283.3	156.0	282.6
New Jersey . . . . .	29,364	13,933	15,125	13,351	15,649	241.0	149.5	630.3	145.6	621.9
New Mexico . . . . .	9,447	6,586	294	6,493	351	345.4	292.9	558.9	294.2	480.2
New York <sup>2</sup> . . . . .	92,996	49,887	41,615	48,287	43,045	319.1	231.2	657.9	227.9	649.4
North Carolina . . . . .	28,315	8,925	18,614	8,557	18,895	277.3	128.2	621.7	125.0	615.4
North Dakota . . . . .	1,615	1,079	9	1,040	20	168.8	126.8	*	125.3	178.6
Ohio . . . . .	45,921	27,039	18,671	26,068	19,559	280.1	197.1	740.4	192.8	728.8
Oklahoma . . . . .	11,258	6,390	3,262	6,095	3,398	237.6	169.7	642.0	171.3	615.2
Oregon . . . . .	10,436	9,226	631	8,987	764	252.8	240.2	696.5	239.7	634.6
Pennsylvania . . . . .	47,093	27,273	19,446	25,637	20,959	279.0	193.5	772.1	185.2	767.5
Rhode Island . . . . .	3,684	2,787	711	2,692	784	249.5	213.4	647.5	209.9	614.9
South Carolina . . . . .	18,116	4,723	13,345	4,637	13,417	316.0	136.6	600.3	135.5	595.9
South Dakota . . . . .	2,415	1,224	18	1,174	47	217.8	133.5	*	130.4	361.5
Tennessee . . . . .	21,281	8,994	12,217	8,799	12,391	290.8	163.2	700.9	161.3	693.5
Texas <sup>2</sup> . . . . .	60,303	36,938	22,869	36,935	22,872	196.0	143.1	532.2	144.8	506.5
Utah . . . . .	4,504	3,935	103	3,843	158	126.6	116.6	481.3	115.6	424.7
Vermont . . . . .	1,685	1,667	8	1,659	10	198.4	198.1	*	197.8	*
Virginia . . . . .	24,410	10,061	14,094	9,936	14,210	252.2	142.4	603.8	142.7	589.5
Washington . . . . .	17,638	14,187	1,543	13,450	2,008	234.0	213.2	530.4	209.1	502.8
West Virginia . . . . .	5,212	4,653	551	4,622	580	235.2	219.0	665.5	218.9	625.0
Wisconsin . . . . .	16,815	10,662	5,534	10,580	5,589	233.5	170.2	799.2	170.5	774.5
Wyoming . . . . .	1,276	1,139	31	1,118	39	184.9	174.4	413.3	173.4	393.9

<sup>1</sup>Includes races other than white and black.  
<sup>2</sup>Marital status of mother is inferred; see Technical notes.

Table 19. Live births by interval since last live birth, live-birth order, and race of mother: United States, 1989

[Refers only to second and higher order births. Live-birth order refers to number of children born alive to mother]

Interval since last live birth and race of mother	Total, second and higher order births <sup>1</sup>	Live-birth order						
		2	3	4	5	6	7	8 and over
<b>All races<sup>2</sup></b>								
All intervals . . . . .	2,370,242	1,300,371	657,558	249,785	91,415	37,393	16,740	16,980
0 months (plural deliveries) . . . . .	37,657	13,907	12,349	6,583	2,859	1,047	490	422
1-11 months . . . . .	36,378	15,950	10,369	5,390	2,550	1,139	472	508
12-17 months . . . . .	248,480	119,801	68,565	33,308	14,212	6,369	2,948	3,277
18-23 months . . . . .	301,979	161,696	80,602	34,905	13,266	5,830	2,664	3,016
24-35 months . . . . .	506,308	294,185	129,308	50,003	17,976	7,638	3,528	3,670
36-47 months . . . . .	338,290	200,608	90,125	30,153	10,005	3,985	1,722	1,692
48-59 months . . . . .	217,554	122,087	63,810	20,455	6,751	2,494	1,039	918
60-71 months . . . . .	142,376	77,331	43,574	14,042	4,539	1,652	654	584
72 months or more . . . . .	362,121	194,552	113,012	36,110	11,683	3,973	1,626	1,165
Not stated . . . . .	179,099	100,254	45,844	18,836	7,574	3,266	1,597	1,728
<b>White</b>								
All intervals . . . . .	1,854,195	1,049,754	513,250	183,430	62,289	24,370	10,538	10,564
0 months (plural deliveries) . . . . .	29,010	11,325	9,764	4,800	1,965	648	276	232
1-11 months . . . . .	21,918	10,874	6,154	2,833	1,221	473	183	180
12-17 months . . . . .	175,812	91,630	48,137	21,460	8,120	3,379	1,498	1,588
18-23 months . . . . .	238,522	133,132	62,868	25,785	9,154	3,902	1,712	1,969
24-35 months . . . . .	417,236	250,284	104,756	38,740	13,063	5,430	2,445	2,518
36-47 months . . . . .	280,145	169,994	73,919	23,655	7,361	2,833	1,185	1,198
48-59 months . . . . .	176,219	100,356	52,011	15,797	4,921	1,764	724	646
60-71 months . . . . .	112,318	61,487	34,839	10,670	3,301	1,168	455	398
72 months or more . . . . .	271,450	145,658	86,613	26,434	8,188	2,708	1,096	753
Not stated . . . . .	131,565	75,014	34,189	13,256	4,995	2,065	964	1,082
<b>Black</b>								
All intervals . . . . .	412,688	197,083	118,206	54,862	23,529	10,066	4,601	4,341
0 months (plural deliveries) . . . . .	7,366	2,113	2,187	1,581	787	352	186	160
1-11 months . . . . .	12,215	4,188	3,676	2,228	1,133	540	233	217
12-17 months . . . . .	58,610	21,960	17,169	9,968	5,049	2,323	1,051	1,090
18-23 months . . . . .	49,462	21,591	14,407	7,449	3,249	1,436	665	665
24-35 months . . . . .	68,578	32,909	19,635	9,051	3,822	1,626	760	775
36-47 months . . . . .	45,062	23,136	12,962	5,286	2,073	882	391	332
48-59 months . . . . .	32,408	16,813	9,429	3,786	1,400	553	238	189
60-71 months . . . . .	23,774	12,471	6,945	2,708	976	371	161	142
72 months or more . . . . .	75,517	41,105	21,831	7,991	2,851	1,001	422	316
Not stated . . . . .	39,696	20,797	9,965	4,814	2,189	982	494	455

<sup>1</sup>Excludes not stated birth order.  
<sup>2</sup>Includes races other than white and black.

Table 20. Live births by educational attainment and race of mother and of father: Total of 48 reporting States, the District of Columbia, and New York City, 1989

Years of school completed	Education and race of mother			Education and race of father		
	All races <sup>1</sup>	White	Black	All races <sup>1,2</sup>	White	Black
Total . . . . .	3,806,986	2,986,888	653,779	3,806,986	2,693,746	406,903
0-5 years . . . . .	59,349	46,310	3,756	66,362	45,732	2,978
6 years . . . . .	57,204	52,781	2,411	52,190	49,102	1,033
7 years . . . . .	24,889	18,905	4,585	14,906	12,912	1,033
8 years . . . . .	75,547	59,406	13,148	46,069	41,402	2,687
9 years . . . . .	150,057	115,745	29,242	80,608	72,005	5,773
10 years . . . . .	213,254	152,124	52,993	118,923	99,317	14,851
11 years . . . . .	271,845	177,057	85,537	164,704	128,733	30,134
12 years . . . . .	1,436,452	1,112,071	273,113	1,234,077	995,176	195,702
13 years . . . . .	284,377	227,515	48,154	182,924	152,034	24,462
14 years . . . . .	343,268	274,797	53,041	290,225	242,258	34,710
15 years . . . . .	118,775	93,377	19,062	99,602	81,277	12,887
16 years . . . . .	418,888	363,567	32,019	414,641	365,703	28,074
17 years or more . . . . .	215,632	186,537	13,088	318,872	279,874	14,647
Not stated . . . . .	137,449	106,696	23,630	722,883	128,221	37,932

<sup>1</sup>Includes races other than white and black.  
<sup>2</sup>Includes births with race of father not stated.

NOTE: Excludes data for Washington and New York State (exclusive of New York City), which did not require reporting of educational attainment of mother and father.

Table 21. Live births by educational attainment of mother, age of mother, and race of mother and of child: Total of 48 reporting States, the District of Columbia, and New York City, 1989

Age of mother and race	Total	Years of school completed by mother					
		0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not stated
All races <sup>1</sup>	3,806,986	216,989	635,156	1,436,452	746,420	634,520	137,449
Under 15 years	11,159	8,108	2,212	-	-	-	839
15-19 years	485,602	45,076	252,429	151,730	16,937	-	19,430
15 years	25,822	8,644	15,734	-	-	-	1,444
16 years	55,241	8,204	43,243	1,367	-	-	2,427
17 years	93,165	8,498	68,116	12,563	209	-	3,779
18 years	138,234	9,451	66,712	53,780	2,972	-	5,319
19 years	173,140	10,279	58,624	84,020	13,756	-	6,461
20-24 years	1,023,536	56,780	203,662	497,432	190,073	38,627	36,962
25-29 years	1,185,533	50,920	112,069	464,261	286,970	229,842	41,471
30-34 years	784,633	34,778	46,799	242,067	184,852	248,884	27,253
35-39 years	273,599	16,726	15,036	70,255	59,549	102,354	9,679
40 years and over	42,924	4,601	2,949	10,707	8,039	14,813	1,815
Race of mother							
White	2,986,888	177,402	444,926	1,112,071	595,689	550,104	106,696
Under 15 years	4,470	3,218	816	-	-	-	436
15-19 years	324,281	34,955	163,903	100,724	11,118	-	13,581
15 years	13,304	4,764	7,716	-	-	-	824
16 years	32,713	5,902	24,411	806	-	-	1,594
17 years	60,800	7,084	43,245	7,696	140	-	2,635
18 years	94,461	8,202	45,797	34,773	1,839	-	3,850
19 years	123,003	9,003	42,734	57,449	9,139	-	4,678
20-24 years	778,220	49,880	152,419	373,712	142,650	31,357	28,202
25-29 years	971,162	43,520	83,130	377,872	233,926	199,401	33,313
30-34 years	650,367	28,801	32,659	196,590	152,681	217,514	22,122
35-39 years	224,146	13,449	10,014	54,978	48,867	89,155	7,683
40 years and over	34,242	3,579	1,985	8,195	6,447	12,677	1,359
Black	653,779	23,900	167,772	273,113	120,257	45,107	23,630
Under 15 years	6,410	4,692	1,330	-	-	-	388
15-19 years	146,843	8,540	81,264	46,561	5,244	-	5,234
15 years	11,744	3,636	7,533	-	-	-	575
16 years	20,897	2,043	17,580	511	-	-	763
17 years	29,607	1,146	22,894	4,482	59	-	1,026
18 years	39,815	905	19,063	17,502	1,027	-	1,318
19 years	44,780	810	14,194	24,066	4,158	-	1,552
20-24 years	209,496	3,410	44,857	108,363	40,581	5,025	7,260
25-29 years	162,083	3,004	24,078	70,161	42,028	16,806	6,006
30-34 years	91,883	2,488	11,488	34,846	23,846	15,835	3,380
35-39 years	31,812	1,375	3,971	11,375	7,485	6,452	1,154
40 years and over	5,252	391	784	1,807	1,073	989	208
Race of child							
White	2,930,557	175,833	433,976	1,089,280	583,652	542,438	105,378
Under 15 years	4,378	3,156	789	-	-	-	431
15-19 years	315,573	34,493	159,260	97,645	10,778	-	13,397
15 years	12,971	4,686	7,471	-	-	-	814
16 years	31,882	5,812	23,716	783	-	-	1,571
17 years	59,247	6,992	42,062	7,448	137	-	2,608
18 years	91,877	8,106	44,470	33,710	1,788	-	3,803
19 years	119,596	8,897	41,541	55,704	8,853	-	4,601
20-24 years	761,238	49,480	148,954	365,107	139,120	30,762	27,815
25-29 years	955,656	43,191	81,375	371,487	229,781	196,904	32,918
30-34 years	639,955	28,592	31,866	193,064	149,879	214,678	21,876
35-39 years	220,176	13,357	9,796	53,924	47,836	87,669	7,594
40 years and over	33,581	3,562	1,936	8,053	6,258	12,425	1,347

See footnotes at end of table.

Table 21. Live births by educational attainment of mother, age of mother, and race of mother and of child: Total of 48 reporting States, the District of Columbia, and New York City, 1989—Con.

Age of mother and race	Total	Years of school completed by mother					
		0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not stated
Black . . . . .	687,633	24,932	175,044	287,353	127,185	48,559	24,560
Under 15 years . . . . .	6,479	4,742	1,344	—	—	—	393
15-19 years . . . . .	152,750	8,823	84,466	48,616	5,467	—	5,378
15 years . . . . .	11,978	3,697	7,698	—	—	—	583
16 years . . . . .	21,464	2,099	18,058	527	—	—	780
17 years . . . . .	30,646	1,192	23,709	4,635	62	—	1,048
18 years . . . . .	41,548	973	19,969	18,192	1,060	—	1,354
19 years . . . . .	47,114	862	15,032	25,262	4,345	—	1,613
20-24 years . . . . .	220,281	3,667	47,098	113,818	42,835	5,330	7,533
25-29 years . . . . .	170,925	3,232	25,181	73,942	44,307	17,978	6,285
30-34 years . . . . .	97,586	2,637	12,009	37,031	25,339	17,020	3,550
35-39 years . . . . .	33,983	1,428	4,124	12,033	8,063	7,128	1,207
40 years and over . . . . .	5,629	403	822	1,913	1,174	1,103	214

<sup>1</sup>Includes races other than white and black.

NOTE: Excludes data for Washington and New York State (exclusive of New York City), which did not require reporting of educational attainment of mother.

Table 22. Live births by Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: 47 reporting States and the District of Columbia, 1989

[By place of residence]

State	Origin of mother										
	All origins	Hispanic						Non-Hispanic			
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>1</sup>	White	Black	Not stated
All reporting States . . . . .	3,903,012	532,249	327,233	56,229	10,842	72,443	65,502	3,297,493	2,526,367	611,269	73,270
Alabama . . . . .	62,568	330	140	45	14	49	82	62,111	39,991	21,628	127
Alaska . . . . .	11,666	319	165	47	4	22	81	11,334	7,649	527	13
Arizona . . . . .	67,196	18,017	17,263	137	23	232	362	48,898	39,367	2,464	281
Arkansas . . . . .	35,911	321	227	10	3	13	68	35,299	26,595	8,413	291
California . . . . .	569,992	211,836	163,349	1,883	832	24,599	21,173	355,386	252,452	47,343	2,770
Colorado . . . . .	52,711	8,466	3,823	101	14	100	4,428	44,187	39,873	2,714	58
Connecticut . . . . .	49,464	4,809	120	3,528	51	433	677	40,009	34,028	5,097	4,646
Delaware . . . . .	10,730	319	74	190	7	18	30	10,404	7,726	2,514	7
District of Columbia . . . . .	11,789	734	36	17	13	602	66	11,003	1,598	9,168	52
Florida . . . . .	193,131	25,313	4,430	3,685	7,100	7,940	2,158	167,221	120,558	44,177	597
Georgia . . . . .	110,272	1,793	933	262	70	308	220	107,779	67,115	39,193	700
Hawaii . . . . .	19,367	1,951	272	540	14	52	1,073	17,411	5,407	663	5
Idaho . . . . .	15,883	1,177	961	11	1	15	189	14,664	14,155	49	42
Illinois . . . . .	190,308	21,777	14,638	3,234	170	1,282	2,453	165,528	120,912	39,862	3,003
Indiana . . . . .	83,469	1,590	1,185	190	8	67	140	81,538	71,925	8,927	341
Iowa . . . . .	39,018	572	300	21	5	25	221	38,421	36,797	1,041	25
Kansas . . . . .	38,737	1,704	1,288	63	18	91	244	36,540	32,396	3,210	493
Kentucky . . . . .	53,424	283	145	49	6	4	79	52,705	47,345	5,009	436
Maine . . . . .	17,466	115	22	8	6	9	70	16,338	16,093	65	1,013
Maryland . . . . .	78,265	2,092	483	196	59	1,195	159	73,776	48,763	22,655	2,397
Massachusetts . . . . .	91,523	7,762	218	4,684	114	2,542	204	82,784	72,244	7,104	977
Michigan . . . . .	148,520	4,161	2,414	369	77	198	1,103	137,204	105,509	29,299	7,155
Minnesota . . . . .	67,518	1,041	678	86	16	51	210	60,707	55,801	1,953	5,770
Mississippi . . . . .	43,047	111	41	7	6	12	45	42,498	21,590	20,414	438
Missouri . . . . .	77,872	920	683	59	16	80	82	76,804	63,037	12,795	148
Montana . . . . .	11,678	265	121	10	3	5	126	10,928	9,472	30	485
Nebraska . . . . .	24,216	752	568	17	4	7	156	23,180	21,206	1,379	284
Nevada . . . . .	19,606	2,425	1,784	60	85	217	279	17,165	14,401	1,819	16
New Jersey . . . . .	121,841	17,528	636	7,335	938	4,141	4,478	104,043	77,391	22,372	270
New Mexico . . . . .	27,353	11,898	2,501	33	16	52	9,296	15,444	10,683	510	11
New York . . . . .	291,449	49,964	2,931	22,031	619	20,773	3,610	231,255	162,813	56,538	10,230
North Carolina . . . . .	102,105	1,498	793	283	50	166	206	100,433	68,115	29,865	174
North Dakota . . . . .	9,570	88	42	5	3	8	30	9,423	8,370	69	59
Ohio . . . . .	163,952	2,232	1,000	836	34	113	249	161,534	134,941	25,084	186
Oregon . . . . .	41,281	2,230	1,989	25	10	97	109	39,005	36,254	897	46
Pennsylvania . . . . .	168,803	5,262	344	4,032	83	355	448	163,351	135,972	24,819	190
Rhode Island . . . . .	14,768	1,091	45	366	3	509	168	10,843	9,525	829	2,834
South Carolina . . . . .	57,330	507	227	102	22	6	150	56,749	34,082	22,164	74
South Dakota . . . . .	11,086	93	70	8	1	-	14	10,983	9,081	73	10
Tennessee . . . . .	73,178	389	187	63	15	46	78	72,753	54,710	17,411	36
Texas . . . . .	307,664	107,197	94,334	738	192	4,294	7,639	199,778	150,746	42,630	689
Utah . . . . .	35,567	1,890	1,084	40	11	121	634	33,644	31,886	210	33
Vermont . . . . .	8,494	45	7	4	1	3	30	7,375	7,322	19	1,074
Virginia . . . . .	96,798	2,456	435	271	60	1,397	293	71,780	52,059	17,728	22,562
Washington . . . . .	75,360	4,821	2,848	133	28	130	1,682	68,620	60,258	2,783	1,919
West Virginia . . . . .	22,163	61	19	6	2	2	32	21,896	21,009	819	206
Wisconsin . . . . .	72,002	1,636	1,066	406	13	56	95	70,296	61,030	6,864	70
Wyoming . . . . .	6,901	408	314	3	2	6	83	6,466	6,115	73	27

<sup>1</sup>Includes races other than white and black.

Table 23. Number and percent distribution of live births by race of mother and of child, according to Hispanic origin of mother: Total of 47 reporting States and the District of Columbia, 1989

Race	Origin of mother								
	All origins	Hispanic						Non-Hispanic	Not stated
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic		
Race of mother									
		Number							
All races . . . . .	3,903,012	532,249	327,233	56,229	10,842	72,443	65,502	3,297,493	73,270
White . . . . .	3,095,509	513,998	323,504	53,499	10,529	65,777	60,689	2,526,367	55,144
Black . . . . .	638,126	11,549	2,016	2,011	263	5,273	1,986	611,269	15,308
Other . . . . .	169,377	6,702	1,713	719	50	1,393	2,827	159,857	2,818
		Percent distribution							
All races . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White . . . . .	79.3	96.6	98.9	95.1	97.1	90.8	92.7	76.6	75.3
Black . . . . .	16.3	2.2	0.6	3.6	2.4	7.3	3.0	18.5	20.9
Other . . . . .	4.3	1.3	0.5	1.3	0.5	1.9	4.3	4.8	3.8
Race of child									
		Number							
All races . . . . .	3,903,012	532,249	327,233	56,229	10,842	72,443	65,502	3,297,493	73,270
White . . . . .	3,037,714	501,750	318,217	50,212	10,351	64,538	58,432	2,481,695	54,269
Black . . . . .	673,693	19,891	5,071	4,936	382	6,125	3,377	637,922	15,880
Other . . . . .	191,605	10,608	3,945	1,081	109	1,780	3,693	177,876	3,121
		Percent distribution							
All races . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White . . . . .	77.8	94.3	97.2	89.3	95.5	89.1	89.2	75.3	74.1
Black . . . . .	17.3	3.7	1.5	8.8	3.5	8.5	5.2	19.3	21.7
Other . . . . .	4.9	2.0	1.2	1.9	1.0	2.5	5.6	5.4	4.3

NOTE: Excludes Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin of mother on the birth certificate.

Table 24. Estimated birth and fertility rates and birth rates by age and Hispanic origin of mother: United States, 1989

[Birth rates by age of mother are live births per 1,000 women in specified group, estimated as of July 1]

Measure	Hispanic						
	All origins	Total <sup>1</sup>	Mexican	Puerto Rican	Cuban	Central and South American	Non-Hispanic <sup>2</sup>
Birth rate <sup>3</sup> . . . . .	16.3	26.2	25.7	23.7	10.0	28.3	15.4
Fertility rate <sup>4</sup> . . . . .	69.2	104.9	106.6	86.6	49.8	95.8	65.7
Birth rates by age of mother							
10-14 years . . . . .	1.4	2.3	2.0	3.8	0.5	1.7	1.3
15-19 years . . . . .	58.1	100.8	94.5	112.7	25.1	66.4	53.4
20-24 years . . . . .	115.4	184.4	184.3	171.0	64.2	159.2	107.8
25-29 years . . . . .	116.6	146.6	153.7	98.0	101.8	150.4	113.4
30-34 years . . . . .	76.2	92.1	96.1	65.2	73.7	85.1	74.7
35-39 years . . . . .	29.7	43.5	41.0	26.9	27.2	60.3	28.6
40-44 years . . . . .	5.2	10.4	11.1	6.3	3.0	12.7	4.8
45-49 years . . . . .	0.2	0.6	0.6	0.3	0.3	0.8	0.2

<sup>1</sup>Includes other and unknown Hispanic origin not shown separately.

<sup>2</sup>Includes origin not stated.

<sup>3</sup>Rate per 1,000 total population.

<sup>4</sup>Rate per 1,000 women aged 15-44 years.

NOTE: Rates by Hispanic origin computed on the basis of births which include estimates for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin of mother on the birth certificate. These three States account for less than 1 percent of all Hispanic births in the United States (see Technical notes). Rates for "All origins" are computed on the basis of all U.S. births, regardless of origin; these rates are not estimated.

**Table 25. Live births by age and Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: Total of 47 reporting States and the District of Columbia, 1989**

Age of mother	Origin of mother									
	All origins <sup>1</sup>	Hispanic						Non-Hispanic		
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	White	Black
All ages . . . . .	3,903,012	532,249	327,233	56,229	10,842	72,443	65,502	3,297,493	2,526,367	611,269
Under 15 years . . . . .	10,948	2,125	1,345	345	10	127	298	8,616	2,375	5,993
15-19 years . . . . .	485,434	86,755	55,666	11,993	747	6,079	12,270	389,662	239,303	137,505
15 years . . . . .	25,560	5,194	3,209	842	43	266	834	19,891	8,216	10,992
16 years . . . . .	54,905	10,719	6,845	1,559	85	619	1,611	43,169	22,132	19,565
17 years . . . . .	93,042	17,487	11,202	2,528	154	1,137	2,466	73,806	43,642	27,715
18 years . . . . .	138,387	23,952	15,408	3,299	186	1,713	3,346	111,853	71,036	37,318
19 years . . . . .	173,540	29,403	19,002	3,765	279	2,344	4,013	140,943	94,277	41,915
20-24 years . . . . .	1,036,156	169,687	108,016	19,391	2,415	19,757	20,108	847,694	619,006	195,348
25-29 years . . . . .	1,221,366	149,488	89,453	14,136	4,233	23,548	18,118	1,049,740	847,236	151,770
30-34 years . . . . .	818,011	85,127	49,940	7,266	2,409	15,256	10,256	716,968	589,117	86,008
35-39 years . . . . .	286,296	32,595	19,004	2,592	889	6,359	3,751	247,570	200,338	29,744
40-44 years . . . . .	43,235	6,203	3,642	489	133	1,262	677	35,991	28,129	4,721
45-49 years . . . . .	1,566	269	167	17	6	55	24	1,252	863	180

<sup>1</sup>Includes origin not stated.  
<sup>2</sup>Includes races other than white and black.

NOTE: Excludes Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin of mother on the birth certificate.

**Table 26. Percent of births with selected characteristics, by Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: Total of 47 reporting States and the District of Columbia, 1989**

Characteristic	Origin of mother									
	All origins <sup>1</sup>	Hispanic						Non-Hispanic		
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	White	Black
Fourth and higher-order births . . . . .	10.2	15.5	17.7	12.6	5.8	12.0	12.4	9.4	7.9	14.5
Births to unmarried mothers . . . . .	27.0	35.5	31.7	55.2	17.5	38.9	37.0	25.6	16.1	66.0
Mothers completing 12 years or more of school <sup>3</sup> . . . . .	76.8	47.2	38.7	56.2	82.1	56.3	65.5	81.5	84.7	70.1
Mothers born in the United States . . . . .	85.2	41.3	40.0	55.3	19.2	4.0	80.7	92.2	95.9	93.0
Mothers who began prenatal care in the first trimester . . . . .	75.5	59.5	56.7	62.7	83.2	60.8	66.0	78.0	82.7	59.9
Mothers who had late or no prenatal care . . . . .	6.5	13.0	14.6	11.3	4.0	11.9	9.3	5.4	3.7	12.0
Births of low birth weight <sup>4</sup> . . . . .	7.0	6.2	5.6	9.5	5.8	5.8	6.7	7.1	5.6	13.6
Preterm births <sup>5</sup> . . . . .	10.6	11.1	10.7	13.8	9.3	10.7	11.3	10.5	8.4	19.0
1-minute Apgar score less than 7 <sup>6</sup> . . . . .	8.8	7.6	8.3	7.3	4.9	6.4	8.6	8.9	8.3	11.6
5-minute Apgar score less than 7 <sup>6</sup> . . . . .	1.6	1.4	1.4	1.7	1.0	1.3	1.5	1.6	1.3	2.9

<sup>1</sup>Includes origin not stated.  
<sup>2</sup>Includes races other than white and black.  
<sup>3</sup>Excludes data for New York State (exclusive of New York City) and Washington, which did not require reporting of educational attainment of mother.  
<sup>4</sup>Birth weight of less than 2,500 grams (5 lb 8 oz).  
<sup>5</sup>Born prior to 37 completed weeks of gestation.  
<sup>6</sup>Excludes data for California and Texas, which did not require reporting of either 1- or 5-minute Apgar score.

NOTE: Excludes Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin of mother on the birth certificate.



Table 27. Live births by age of mother and specified race of mother and of child: United States, 1989

Age of mother	All races <sup>1</sup>	White	Black	American Indian <sup>2</sup>	Asian or Pacific Islander				
					Chinese	Japanese	Hawaiian	Filipino	Other
Race of mother									
All ages . . . . .	4,040,958	3,192,355	673,124	39,478	20,982	8,689	5,609	24,585	73,210
Under 15 years . . . . .	11,486	4,630	6,560	138	2	3	15	16	114
15-19 years . . . . .	506,503	340,472	150,699	7,608	206	230	950	1,420	4,604
15 years . . . . .	26,730	13,869	12,048	405	9	16	27	63	272
16 years . . . . .	57,279	34,133	21,412	900	17	16	108	128	534
17 years . . . . .	97,035	63,734	30,372	1,534	37	45	182	252	819
18 years . . . . .	144,350	99,302	40,868	2,133	63	56	290	354	1,199
19 years . . . . .	181,109	129,434	45,999	2,636	80	97	343	623	1,780
20-24 years . . . . .	1,077,598	824,189	215,557	13,106	1,650	829	1,931	4,499	14,974
25-29 years . . . . .	1,263,098	1,040,659	167,260	10,394	7,150	2,538	1,559	7,226	25,417
30-34 years . . . . .	842,395	702,963	94,766	5,636	8,136	3,378	808	7,248	18,895
35-39 years . . . . .	293,878	242,467	32,845	2,162	3,365	1,459	291	3,454	7,606
40-44 years . . . . .	44,401	35,795	5,236	417	456	247	53	696	1,452
45-49 years . . . . .	1,599	1,180	201	17	17	5	2	26	148
Race of child									
All ages . . . . .	4,040,958	3,131,991	709,395	49,267	22,507	10,567	8,130	26,078	79,472
Under 15 years . . . . .	11,486	4,527	6,640	144	3	4	22	22	116
15-19 years . . . . .	506,503	331,204	156,969	9,139	271	303	1,309	1,642	5,285
15 years . . . . .	26,730	13,517	12,294	459	11	13	40	77	297
16 years . . . . .	57,279	33,236	22,015	1,041	18	25	139	156	610
17 years . . . . .	97,035	62,080	31,476	1,813	51	59	258	279	948
18 years . . . . .	144,350	96,567	42,702	2,594	78	86	397	422	1,402
19 years . . . . .	181,109	125,804	48,482	3,232	113	120	475	708	2,028
20-24 years . . . . .	1,077,598	806,056	227,099	16,343	1,866	1,065	2,612	5,016	16,506
25-29 years . . . . .	1,263,098	1,024,006	176,748	13,198	7,543	3,134	2,325	7,731	27,325
30-34 years . . . . .	842,395	691,735	100,906	7,219	8,709	4,024	1,286	7,464	20,367
35-39 years . . . . .	293,878	238,202	35,191	2,702	3,609	1,728	491	3,488	8,178
40-44 years . . . . .	44,401	35,111	5,633	500	488	299	83	685	1,541
45-49 years . . . . .	1,599	1,150	209	22	18	10	2	30	154

<sup>1</sup>Includes births of other races not shown separately.

<sup>2</sup>Includes births to Aleuts and Eskimos.

Table 28. Live births by birth weight and percent low birth weight, by specified race of mother and of child: United States, 1989

Birth weight <sup>1</sup>	All races <sup>2</sup>	White	Black	American Indian <sup>3</sup>	Asian or Pacific Islander				
					Chinese	Japanese	Hawaiian	Filipino	Other
Race of mother									
					Number				
Total . . . . .	4,040,958	3,192,355	673,124	39,478	20,982	8,689	5,609	24,585	73,210
Less than 2,500 grams . . . . .	284,391	182,335	90,720	2,469	1,026	579	408	1,806	4,836
Less than 500 grams . . . . .	5,465	2,950	2,376	34	10	5	10	21	56
500-999 grams . . . . .	19,880	11,346	7,976	151	49	28	22	83	213
1,000-1,499 grams . . . . .	26,444	16,042	9,462	211	68	42	31	171	385
1,500-1,999 grams . . . . .	54,301	34,600	17,741	476	151	117	73	313	801
2,000-2,499 grams . . . . .	178,301	117,397	53,165	1,597	748	387	272	1,218	3,381
2,500-2,999 grams . . . . .	649,004	455,048	159,423	5,825	3,968	1,925	1,100	5,447	15,726
3,000-3,499 grams . . . . .	1,477,630	1,152,663	253,468	14,132	9,311	3,680	2,084	10,064	31,026
3,500-3,999 grams . . . . .	1,183,050	1,005,114	133,422	12,026	5,442	2,014	1,524	5,699	17,057
4,000-4,499 grams . . . . .	368,154	327,570	29,383	3,990	1,060	434	418	1,341	3,768
4,500-4,999 grams . . . . .	65,196	58,747	4,578	832	130	46	55	192	597
5,000 grams or more . . . . .	8,300	7,224	752	138	28	6	10	25	111
Not stated . . . . .	5,233	3,654	1,378	66	17	5	10	11	89
					Percent				
Less than 2,500 grams . . . . .	7.0	5.7	13.5	6.3	4.9	6.7	7.3	7.3	6.6
Race of child									
					Number				
Total . . . . .	4,040,958	3,131,991	709,395	49,267	22,507	10,567	8,130	26,078	79,472
Less than 2,500 grams . . . . .	284,391	178,152	93,377	3,129	1,115	679	587	1,907	5,187
Less than 500 grams . . . . .	5,465	2,891	2,409	43	18	6	11	21	63
500-999 grams . . . . .	19,880	11,057	8,174	185	58	40	32	83	237
1,000-1,499 grams . . . . .	26,444	15,669	9,703	275	76	46	49	178	413
1,500-1,999 grams . . . . .	54,301	33,778	18,261	614	167	134	103	333	871
2,000-2,499 grams . . . . .	178,301	114,757	54,830	2,012	796	453	392	1,292	3,603
2,500-2,999 grams . . . . .	649,004	445,323	165,275	7,319	4,258	2,147	1,580	5,680	16,780
3,000-3,499 grams . . . . .	1,477,630	1,130,410	266,554	17,639	9,867	4,393	3,045	10,744	33,529
3,500-3,999 grams . . . . .	1,183,050	987,398	144,059	15,014	5,910	2,672	2,190	6,079	18,815
4,000-4,499 grams . . . . .	368,154	322,238	32,687	4,914	1,167	591	606	1,422	4,282
4,500-4,999 grams . . . . .	65,196	57,772	5,184	1,021	142	74	92	208	671
5,000 grams or more . . . . .	8,300	7,104	836	162	31	5	14	28	113
Not stated . . . . .	5,233	3,594	1,423	69	17	6	16	10	95
					Percent				
Less than 2,500 grams . . . . .	7.0	5.7	13.2	6.4	5.0	6.4	7.2	7.3	6.5

<sup>1</sup>Equivalents of the gram weights in pounds and ounces are shown in the Technical notes.

<sup>2</sup>Includes births of other races not shown separately.

<sup>3</sup>Includes births to Aleuts and Eskimos.

Table 29. Live births by month of pregnancy prenatal care began, age of mother, and race of mother and of child: United States, 1989

Age of mother and race	All births	Month of pregnancy prenatal care began					No prenatal care	Not stated
		1st and 2d months	3d month	4th-6th months	7th-9th months			
All races <sup>1</sup>	4,040,958	2,156,451	828,054	715,933	168,723	86,188	85,609	
Under 15 years	11,486	2,215	1,911	4,619	1,573	758	410	
15-19 years	506,503	154,932	110,790	165,589	42,886	18,992	13,314	
15 years	26,730	6,090	5,285	10,282	2,950	1,307	816	
16 years	57,279	14,708	11,895	21,036	5,549	2,487	1,604	
17 years	97,035	27,552	21,426	32,997	8,621	3,749	2,690	
18 years	144,350	44,275	31,961	46,978	12,035	5,363	3,738	
19 years	181,109	62,307	40,223	54,296	13,731	6,086	4,466	
20-24 years	1,077,598	492,412	232,945	239,149	59,128	29,252	24,712	
25-29 years	1,263,098	757,654	252,486	170,764	37,226	20,650	24,318	
30-34 years	842,395	539,640	163,261	93,677	18,914	11,094	15,809	
35-39 years	293,878	183,995	57,404	34,859	7,320	4,360	5,940	
40 years and over	46,000	25,603	9,257	7,276	1,676	1,082	1,106	
Race of mother								
White	3,192,355	1,820,643	653,155	496,705	113,853	50,184	57,815	
Under 15 years	4,630	991	797	1,744	632	317	149	
15-19 years	340,472	111,405	77,965	105,809	26,819	10,590	7,884	
15 years	13,869	3,417	2,921	5,066	1,477	624	364	
16 years	34,133	9,333	7,473	12,051	3,136	1,279	861	
17 years	63,734	19,189	14,865	20,701	5,428	2,015	1,536	
18 years	99,302	32,241	22,960	31,112	7,629	3,061	2,299	
19 years	129,434	47,225	29,746	36,879	9,149	3,611	2,824	
20-24 years	824,189	401,875	180,340	167,889	40,706	17,185	16,194	
25-29 years	1,040,659	656,209	205,971	123,256	26,006	12,044	17,173	
30-34 years	702,963	469,833	134,309	67,644	13,245	6,544	11,388	
35-39 years	242,467	158,737	46,435	25,059	5,219	2,761	4,256	
40 years and over	36,975	21,593	7,338	5,304	1,226	743	771	
Black	673,124	252,872	137,798	182,960	44,574	33,045	21,875	
Under 15 years	6,560	1,174	1,066	2,768	892	415	245	
15-19 years	150,699	39,522	29,756	54,375	14,377	7,907	4,762	
15 years	12,048	2,533	2,216	4,877	1,350	656	416	
16 years	21,412	4,995	4,101	8,359	2,174	1,139	644	
17 years	30,372	7,640	5,972	11,219	2,880	1,632	1,029	
18 years	40,868	10,949	8,177	14,338	3,960	2,158	1,286	
19 years	45,999	13,405	9,290	15,582	4,013	2,322	1,387	
20-24 years	215,557	76,320	44,491	61,218	15,330	11,206	6,992	
25-29 years	167,260	73,660	34,712	37,245	8,389	7,801	5,453	
30-34 years	94,766	44,886	19,496	19,214	3,959	4,074	3,137	
35-39 years	32,845	15,049	7,104	6,856	1,360	1,370	1,106	
40 years and over	5,437	2,261	1,173	1,284	267	272	180	
Race of child								
White	3,131,991	1,790,848	640,151	484,333	111,112	49,084	56,463	
Under 15 years	4,527	974	772	1,703	620	311	147	
15-19 years	331,204	108,333	75,929	102,863	26,094	10,347	7,638	
15 years	13,517	3,323	2,857	4,921	1,441	617	358	
16 years	33,236	9,080	7,275	11,721	3,069	1,252	839	
17 years	62,080	18,656	14,520	20,160	5,284	1,974	1,486	
18 years	96,567	31,364	22,333	30,237	7,411	2,991	2,231	
19 years	125,804	45,910	28,944	35,824	8,889	3,513	2,724	
20-24 years	806,056	393,947	176,261	163,519	39,697	16,818	15,814	
25-29 years	1,024,006	647,047	202,494	120,457	25,419	11,784	16,805	
30-34 years	691,735	463,226	131,928	66,098	12,949	6,384	11,150	
35-39 years	238,202	156,128	45,577	24,506	5,129	2,708	4,154	
40 years and over	36,261	21,193	7,190	5,187	1,204	732	755	

See footnotes at end of table.

Table 29. Live births by month of pregnancy prenatal care began, age of mother, and race of mother and of child: United States, 1989—Con.

Age of mother and race	All births	Month of pregnancy prenatal care began					No prenatal care	Not stated
		1st and 2d months	3d month	4th–6th months	7th–9th months			
Black . . . . .	709,395	269,232	145,749	191,208	46,502	33,908	22,796	
Under 15 years . . . . .	6,640	1,183	1,087	2,799	903	422	246	
15–19 years . . . . .	156,969	41,521	31,106	56,426	14,891	8,098	4,927	
15 years . . . . .	12,294	2,599	2,260	4,978	1,377	660	420	
16 years . . . . .	22,015	5,155	4,223	8,597	2,222	1,158	660	
17 years . . . . .	31,476	7,980	6,190	11,587	2,987	1,668	1,064	
18 years . . . . .	42,702	11,496	8,596	14,954	4,109	2,213	1,334	
19 years . . . . .	48,482	14,291	9,837	16,310	4,196	2,399	1,449	
20–24 years . . . . .	227,099	81,123	47,043	64,127	16,051	11,492	7,263	
25–29 years . . . . .	176,748	78,399	36,758	39,069	8,810	8,003	5,709	
30–34 years . . . . .	100,906	48,164	20,896	20,216	4,140	4,201	3,289	
35–39 years . . . . .	35,191	16,377	7,608	7,202	1,420	1,411	1,173	
40 years and over . . . . .	5,842	2,465	1,251	1,369	287	281	189	

<sup>1</sup>Includes races other than white and black.

Table 30. Live births by month of pregnancy prenatal care began, number of prenatal visits, and race of mother and of child: United States, 1989

Number prenatal visits and race	All births	Month of pregnancy prenatal care began					No prenatal care	Not stated
		1st and 2d months	3d month	4th-6th months	7th-9th months			
All races <sup>1</sup>	4,040,958	2,156,451	828,054	715,933	168,723	86,188	85,609	
No visits	86,188	...	...	...	...	86,188	...	
1-2 visits	74,982	8,800	6,586	19,495	37,154	...	2,947	
3-4 visits	132,074	16,174	14,599	53,208	45,234	...	2,859	
5-6 visits	243,428	45,300	41,768	112,692	40,151	...	3,517	
7-8 visits	392,788	118,535	90,619	156,595	23,107	...	3,932	
9-10 visits	763,620	350,514	212,359	183,514	11,499	...	5,734	
11-12 visits	1,031,619	676,145	243,195	103,153	4,228	...	4,898	
13-14 visits	595,756	444,117	111,079	36,684	1,453	...	2,423	
15-16 visits	391,661	301,327	62,534	24,810	1,140	...	1,850	
17-18 visits	85,342	65,878	14,165	4,669	211	...	419	
19 visits or more	131,426	100,191	19,989	9,919	594	...	733	
Not stated	112,074	29,470	11,161	11,194	3,952	...	56,297	
Race of mother								
White	3,192,355	1,820,643	653,155	496,705	113,853	50,184	57,815	
No visits	50,184	...	...	...	...	50,184	...	
1-2 visits	44,869	5,418	3,870	10,545	23,510	...	1,526	
3-4 visits	82,686	10,198	9,053	31,930	29,937	...	1,568	
5-6 visits	164,788	31,865	28,756	74,446	27,607	...	2,114	
7-8 visits	289,299	92,605	68,161	109,603	16,381	...	2,549	
9-10 visits	597,801	288,235	166,390	131,124	8,172	...	3,880	
11-12 visits	869,330	585,382	200,499	76,540	3,132	...	3,777	
13-14 visits	511,880	389,021	91,941	27,900	1,095	...	1,923	
15-16 visits	325,590	255,472	50,084	17,777	853	...	1,404	
17-18 visits	72,218	56,747	11,512	3,479	163	...	317	
19 visits or more	105,904	83,195	15,170	6,619	396	...	524	
Not stated	77,806	22,505	7,719	6,742	2,607	...	38,233	
Black	673,124	252,872	137,798	182,960	44,574	33,045	21,875	
No visits	33,045	...	...	...	...	33,045	...	
1-2 visits	25,937	2,964	2,439	7,978	11,320	...	1,236	
3-4 visits	41,193	5,059	4,722	17,985	12,389	...	1,038	
5-6 visits	64,101	10,887	10,461	31,603	10,027	...	1,123	
7-8 visits	81,766	19,463	17,328	38,481	5,372	...	1,122	
9-10 visits	129,131	45,994	35,560	43,406	2,698	...	1,473	
11-12 visits	123,865	66,879	32,997	22,196	901	...	892	
13-14 visits	63,231	40,304	15,000	7,236	290	...	401	
15-16 visits	51,954	35,231	10,016	6,110	240	...	357	
17-18 visits	10,079	6,800	2,147	1,004	39	...	89	
19 visits or more	21,160	13,641	4,179	2,973	179	...	188	
Not stated	27,662	5,650	2,949	3,988	1,119	...	13,956	
Race of child								
White	3,131,991	1,790,848	640,151	484,333	111,112	49,084	56,463	
No visits	49,084	...	...	...	...	49,084	...	
1-2 visits	43,728	5,294	3,766	10,238	22,954	...	1,476	
3-4 visits	80,636	9,946	8,822	31,141	29,196	...	1,531	
5-6 visits	160,871	31,162	28,071	72,633	26,944	...	2,061	
7-8 visits	283,129	90,911	66,796	106,942	15,987	...	2,493	
9-10 visits	586,039	283,306	163,171	127,805	7,977	...	3,780	
11-12 visits	854,976	576,659	196,847	74,713	3,050	...	3,707	
13-14 visits	503,564	383,217	90,164	27,226	1,071	...	1,886	
15-16 visits	319,575	251,112	48,973	17,291	837	...	1,362	
17-18 visits	70,777	55,686	11,239	3,385	160	...	307	
19 visits or more	103,609	81,508	14,784	6,415	386	...	516	
Not stated	76,003	22,047	7,518	6,544	2,550	...	37,344	

See footnotes at end of table.

Table 30. Live births by month of pregnancy prenatal care began, number of prenatal visits, and race of mother and of child: United States, 1989—Con.

Number prenatal visits and race	All births	Month of pregnancy prenatal care began					No prenatal care	Not stated
		1st and 2d months	3d month	4th–6th months	7th–9th months			
Black . . . . .	709,395	269,232	145,749	191,208	46,502	33,908	22,796	
No visits . . . . .	33,908	...	...	...	...	33,908	...	
1–2 visits . . . . .	26,763	3,055	2,515	8,198	11,718	...	1,277	
3–4 visits . . . . .	42,637	5,223	4,890	18,545	12,912	...	1,067	
5–6 visits . . . . .	66,734	11,319	10,966	32,804	10,480	...	1,165	
7–8 visits . . . . .	85,718	20,478	18,193	40,235	5,654	...	1,158	
9–10 visits . . . . .	136,197	48,768	37,465	45,592	2,839	...	1,533	
11–12 visits . . . . .	132,093	71,673	35,135	23,402	955	...	928	
13–14 visits . . . . .	67,782	43,319	16,056	7,676	310	...	421	
15–16 visits . . . . .	55,329	37,570	10,686	6,439	246	...	388	
17–18 visits . . . . .	10,866	7,358	2,309	1,063	41	...	95	
19 visits or more . . . . .	22,489	14,551	4,445	3,114	186	...	193	
Not stated . . . . .	28,879	5,918	3,089	4,140	1,161	...	14,571	

<sup>1</sup>Includes races other than white and black.

Table 31. Live births by period of gestation, birth weight, and race of mother and of child: United States, 1989

Birth weight <sup>1</sup> and race	Period of gestation									
	All births	Under 28 weeks	28-31 weeks	32-35 weeks	36 weeks	37-39 weeks	40 weeks	41 weeks	42 weeks and over	Not stated
All races <sup>2</sup> . . . . .	4,040,958	28,337	49,177	201,533	142,545	1,617,831	893,511	571,848	478,267	57,909
Less than 500 grams . . . . .	5,465	4,957	201	15	1	1	5	1	4	280
500-999 grams . . . . .	19,880	14,162	4,027	599	68	158	74	39	43	710
1,000-1,499 grams . . . . .	26,444	4,322	12,941	5,731	628	1,327	292	195	299	709
1,500-1,999 grams . . . . .	54,301	1,486	11,058	24,865	4,277	8,193	1,316	739	1,189	1,178
2,000-2,499 grams . . . . .	178,301	1,103	5,394	51,743	23,161	65,026	13,197	6,798	8,705	3,174
2,500-2,999 grams . . . . .	649,004	1,598	6,006	51,645	50,568	325,555	99,198	51,116	53,489	9,829
3,000-3,499 grams . . . . .	1,477,630	-	6,407	42,213	42,198	672,559	335,926	191,604	166,792	19,931
3,500-3,999 grams . . . . .	1,183,050	-	2,952	19,244	16,884	424,306	319,781	217,280	167,882	14,721
4,000-4,499 grams . . . . .	368,154	-	-	4,437	3,875	102,149	103,900	84,749	64,465	4,579
4,500-4,999 grams . . . . .	65,196	-	-	654	648	15,559	17,300	16,814	13,376	845
5,000 grams or more . . . . .	8,300	-	-	129	122	2,047	1,994	2,130	1,726	152
Not stated . . . . .	5,233	709	191	258	115	951	528	383	297	1,801
Race of mother										
White . . . . .	3,192,355	15,248	29,001	132,324	101,572	1,263,365	735,950	482,819	389,020	43,056
Less than 500 grams . . . . .	2,950	2,674	106	5	1	-	3	1	4	156
500-999 grams . . . . .	11,346	7,948	2,375	369	38	107	51	31	31	396
1,000-1,499 grams . . . . .	16,042	2,365	8,090	3,525	414	801	162	118	177	390
1,500-1,999 grams . . . . .	34,600	641	6,952	16,190	2,798	5,286	848	462	726	697
2,000-2,499 grams . . . . .	117,397	478	2,838	34,657	15,672	43,033	8,690	4,498	5,585	1,946
2,500-2,999 grams . . . . .	455,048	774	2,951	33,399	35,801	229,685	71,237	37,419	37,332	6,450
3,000-3,499 grams . . . . .	1,152,663	-	3,622	26,739	30,477	522,780	268,147	155,390	130,642	14,866
3,500-3,999 grams . . . . .	1,005,114	-	1,964	13,346	12,614	356,472	275,547	190,006	143,073	12,092
4,000-4,499 grams . . . . .	327,570	-	-	3,344	3,088	89,185	93,401	77,105	57,499	3,948
4,500-4,999 grams . . . . .	58,747	-	-	493	514	13,626	15,714	15,507	12,160	733
5,000 grams or more . . . . .	7,224	-	-	95	77	1,701	1,723	1,960	1,555	113
Not stated . . . . .	3,654	368	103	162	78	689	427	322	236	1,269
Black . . . . .	673,124	12,309	18,410	60,204	34,603	276,454	120,748	68,524	71,297	10,575
Less than 500 grams . . . . .	2,376	2,160	89	10	-	1	2	-	-	114
500-999 grams . . . . .	7,976	5,837	1,543	206	24	47	17	8	10	284
1,000-1,499 grams . . . . .	9,462	1,830	4,416	1,983	193	464	117	70	112	277
1,500-1,999 grams . . . . .	17,741	806	3,751	7,835	1,333	2,546	410	241	421	398
2,000-2,499 grams . . . . .	53,165	592	2,392	15,133	6,546	18,868	3,860	2,001	2,782	991
2,500-2,999 grams . . . . .	159,423	764	2,785	15,918	12,518	77,299	22,663	11,255	13,711	2,510
3,000-3,499 grams . . . . .	253,468	-	2,484	13,146	9,739	115,352	51,972	28,149	29,228	3,398
3,500-3,999 grams . . . . .	133,422	-	866	4,897	3,445	50,632	32,652	20,266	19,002	1,662
4,000-4,499 grams . . . . .	29,383	-	-	846	630	9,402	7,603	5,453	5,062	387
4,500-4,999 grams . . . . .	4,578	-	-	117	110	1,383	1,172	909	820	67
5,000 grams or more . . . . .	752	-	-	27	31	245	196	121	102	30
Not stated . . . . .	1,378	320	84	86	34	215	84	51	47	457
Race of child										
White . . . . .	3,131,991	14,887	28,343	129,470	99,513	1,240,063	722,628	474,104	381,150	41,833
Less than 500 grams . . . . .	2,891	2,622	103	5	1	-	3	1	4	152
500-999 grams . . . . .	11,057	7,741	2,330	356	36	102	49	30	31	382
1,000-1,499 grams . . . . .	15,669	2,306	7,903	3,437	405	787	159	116	174	382
1,500-1,999 grams . . . . .	33,778	624	6,803	15,798	2,733	5,172	826	451	711	660
2,000-2,499 grams . . . . .	114,757	468	2,764	33,892	15,333	42,111	8,475	4,398	5,444	1,872
2,500-2,999 grams . . . . .	445,323	759	2,892	32,731	35,046	224,834	69,688	36,644	36,485	6,244
3,000-3,499 grams . . . . .	1,130,410	-	3,536	26,178	29,901	513,084	262,974	152,415	127,859	14,463
3,500-3,999 grams . . . . .	987,398	-	1,914	13,062	12,380	350,434	270,859	186,728	140,267	11,754
4,000-4,499 grams . . . . .	322,238	-	-	3,278	3,020	87,771	92,002	75,834	56,482	3,851
4,500-4,999 grams . . . . .	57,772	-	-	482	503	13,415	15,480	15,242	11,940	710
5,000 grams or more . . . . .	7,104	-	-	92	77	1,674	1,699	1,928	1,522	112
Not stated . . . . .	3,594	367	98	159	78	679	414	317	231	1,251

See footnotes at end of table.

Table 31. Live births by period of gestation, birth weight, and race of mother and of child: United States, 1989—Con.

Birth weight <sup>1</sup> and race	All births	Period of gestation								Not stated
		Under 28 weeks	28-31 weeks	32-35 weeks	36 weeks	37-39 weeks	40 weeks	41 weeks	42 weeks and over	
Black . . . . .	709,395	12,553	18,853	62,114	35,913	290,492	128,489	73,670	76,060	11,251
Less than 500 grams . . . . .	2,409	2,192	90	10	—	1	2	—	—	11
4500-999 grams . . . . .	8,174	5,974	1,579	214	26	50	18	8	10	295
1,000-1,499 grams . . . . .	9,703	1,870	4,537	2,043	200	471	119	70	112	281
1,500-1,999 grams . . . . .	18,261	820	3,844	8,086	1,368	2,623	422	249	428	421
2,000-2,499 grams . . . . .	54,830	598	2,446	15,639	6,761	19,431	4,000	2,062	2,868	1,025
2,500-2,999 grams . . . . .	165,275	777	2,835	16,368	13,000	80,196	23,512	11,711	14,244	2,632
3,000-3,499 grams . . . . .	266,554	—	2,542	13,522	10,111	121,089	54,913	29,865	30,897	3,615
3,500-3,999 grams . . . . .	144,059	—	892	5,095	3,600	54,313	35,390	22,205	20,718	1,846
4,000-4,499 grams . . . . .	32,687	—	—	893	663	10,303	8,486	6,238	5,665	439
4,500-4,999 grams . . . . .	5,184	—	—	128	118	1,529	1,323	1,069	941	76
5,000 grams or more . . . . .	836	—	—	28	32	264	215	140	126	31
Not stated . . . . .	1,423	322	88	88	34	222	89	53	51	476

<sup>1</sup>Equivalents of the gram weights in pounds and ounces are shown in the Technical notes. <sup>2</sup>Includes races other than white and black.



Table 32. Live births by 1- and 5-minute Apgar scores and race of mother and of child: Total of 47 reporting States and the District of Columbia, 1989

1-minute score and race	Total	5-minute score										Not stated	
		0	1	2	3	4	5	6	7	8	9		10
All races <sup>1</sup>	3,115,917	2,542	6,765	3,248	3,274	4,978	9,218	19,850	50,351	235,236	2,272,165	480,760	27,530
0	2,514	1,056	351	217	179	158	114	80	80	68	117	42	52
1	20,675	724	4,979	1,111	1,398	1,625	2,015	2,389	2,230	2,080	1,879	80	165
2	20,620	153	784	1,255	740	1,439	2,129	3,092	3,440	3,886	3,460	133	109
3	26,551	60	254	266	499	801	2,101	3,924	5,350	6,520	6,444	239	93
4	38,439	21	74	125	128	421	1,289	4,264	7,902	11,397	12,310	444	64
5	59,644	16	45	57	81	111	720	3,381	11,136	19,782	23,332	908	75
6	104,176	21	31	50	61	100	196	1,638	11,549	39,240	49,064	2,128	98
7	285,103	59	36	56	63	99	248	491	6,120	82,481	187,892	7,420	138
8	1,225,521	191	79	55	65	131	248	367	1,766	67,273	1,104,802	50,198	346
9	1,274,835	223	88	33	35	66	122	170	671	2,202	881,846	388,984	395
10	30,246	9	4	-	1	3	1	4	9	39	293	29,830	53
Not stated	27,593	9	40	23	24	24	35	50	98	268	726	354	25,942
Race of mother													
White	2,432,242	1,490	3,870	1,900	1,957	3,165	6,011	13,573	36,685	181,536	1,767,932	395,303	18,820
0	1,465	550	232	134	109	101	75	50	45	40	71	25	33
1	12,981	442	2,800	674	834	1,031	1,263	1,535	1,512	1,430	1,304	64	92
2	13,858	89	448	713	453	930	1,385	2,062	2,364	2,741	2,520	97	56
3	18,428	36	141	146	273	503	1,423	2,640	3,714	4,613	4,697	191	51
4	27,534	11	38	67	85	268	862	2,925	5,578	8,253	9,046	367	34
5	44,305	5	24	32	52	66	457	2,411	8,103	14,701	17,644	760	50
6	80,466	4	14	29	38	67	119	1,173	8,765	30,149	38,270	1,772	66
7	227,309	45	28	31	37	63	165	366	4,754	64,649	150,661	6,423	87
8	978,201	143	55	42	36	79	154	267	1,328	53,086	878,913	43,843	255
9	984,109	157	61	22	23	40	83	116	461	1,697	664,120	317,060	269
10	24,793	5	4	-	1	1	1	3	6	31	248	24,463	30
Not stated	18,793	3	25	10	16	16	24	25	55	146	438	238	17,797
Black	576,668	974	2,713	1,255	1,204	1,672	2,948	5,728	12,283	46,265	424,696	69,410	7,520
0	959	468	112	73	64	48	36	26	33	24	43	15	17
1	7,077	266	2,050	410	513	555	695	777	658	575	496	14	68
2	6,142	62	318	504	258	471	681	933	967	1,035	835	35	43
3	7,357	23	105	111	208	271	615	1,187	1,502	1,707	1,542	45	41
4	9,748	10	34	53	43	144	400	1,220	2,103	2,804	2,840	68	29
5	13,582	9	20	24	28	43	245	885	2,731	4,496	4,953	125	23
6	20,720	16	16	21	22	30	73	424	2,489	7,960	9,339	305	25
7	48,867	13	7	25	22	34	75	116	1,187	15,223	31,312	809	44
8	204,318	43	15	12	27	46	85	88	378	11,889	186,564	5,090	81
9	245,535	54	21	11	11	21	34	48	195	435	186,482	58,113	110
10	4,762	4	-	-	-	2	-	1	2	8	38	4,687	20
Not stated	7,601	6	15	11	8	7	9	23	38	109	252	104	7,019
Race of child													
White	2,392,843	1,465	3,796	1,867	1,927	3,100	5,895	13,300	36,042	178,461	1,738,336	390,221	18,433
0	1,442	539	229	133	106	100	75	50	44	37	71	25	33
1	12,719	437	2,751	661	816	1,012	1,228	1,503	1,478	1,405	1,274	64	90
2	13,584	89	435	700	449	909	1,358	2,015	2,311	2,691	2,475	96	56
3	18,066	36	137	144	273	491	1,403	2,585	3,646	4,519	4,594	188	50
4	27,027	11	37	66	83	267	844	2,870	5,479	8,102	8,877	357	34
5	43,573	5	22	31	49	63	451	2,373	7,975	14,453	17,347	754	50
6	79,165	4	14	29	38	66	114	1,141	8,625	29,639	37,679	1,750	66
7	223,600	44	28	31	37	60	162	361	4,671	63,558	148,216	6,346	86
8	962,213	139	55	42	36	77	154	261	1,303	52,215	864,346	43,334	251
9	968,551	153	61	21	23	39	82	113	450	1,668	652,783	312,891	267
10	24,512	5	4	-	1	1	1	3	6	30	245	24,186	30
Not stated	18,391	3	23	9	16	15	23	25	54	144	429	230	17,420

See footnotes at end of table.

Table 32. Live births by 1- and 5-minute Apgar scores and race of mother and of child: Total of 47 reporting States and the District of Columbia, 1989—Con.

1-minute score and race	Total	5-minute score										Not stated	
		0	1	2	3	4	5	6	7	8	9		10
Black . . . . .	602,081	993	2,764	1,281	1,223	1,716	3,035	5,924	12,692	48,236	443,800	72,652	7,765
0 . . . . .	977	478	114	74	66	49	35	26	34	26	43	15	17
1 . . . . .	7,269	270	2,087	418	523	566	727	801	681	590	522	14	70
2 . . . . .	6,339	61	325	516	261	487	699	969	1,011	1,071	861	35	43
3 . . . . .	7,597	23	108	112	208	280	628	1,228	1,544	1,760	1,616	48	42
4 . . . . .	10,101	10	35	54	44	143	412	1,259	2,171	2,907	2,961	76	29
5 . . . . .	14,065	10	21	25	31	47	250	914	2,821	4,656	5,138	129	23
6 . . . . .	21,517	16	16	21	22	30	77	440	2,562	8,280	9,712	316	25
7 . . . . .	51,180	15	7	25	22	35	77	119	1,234	15,915	32,824	862	45
8 . . . . .	214,468	45	15	12	27	47	85	93	392	12,450	195,827	5,391	84
9 . . . . .	255,788	55	21	12	11	22	35	51	201	461	193,995	60,812	112
10 . . . . .	4,926	4	—	—	—	2	—	1	2	9	39	4,848	21
Not stated . . . . .	7,854	6	15	12	8	8	10	23	39	111	262	106	7,254

<sup>1</sup>Includes races other than white and black.

NOTE: Excludes data for California, Oklahoma, and Texas, which did not require reporting of either 1- or 5-minute Apgar score.

Table 33. Live births by 5-minute Apgar score, age of mother, and race of mother and of child: Total of 47 reporting States and the District of Columbia, 1989

Age of mother and race	Total	5-minute score											
		0	1	2	3	4	5	6	7	8	9	10	Not stated
All races <sup>1</sup>	3,115,917	2,542	6,765	3,248	3,274	4,978	9,218	19,850	50,351	235,236	2,272,165	480,760	27,530
Under 15 years	8,842	14	38	20	20	26	54	105	229	843	6,294	1,040	159
15-19 years	388,484	390	1,125	542	563	872	1,510	3,392	7,874	33,015	281,553	53,968	3,680
15 years	20,283	22	90	38	28	53	115	227	460	1,829	14,564	2,593	264
16 years	43,672	54	153	66	75	104	175	428	965	3,843	31,611	5,765	433
17 years	74,744	80	212	99	113	180	302	650	1,552	6,395	54,115	10,342	704
18 years	111,094	112	313	135	158	229	417	960	2,213	9,325	80,622	15,624	986
19 years	138,691	122	357	204	189	306	501	1,127	2,684	11,623	100,641	19,644	1,293
20-24 years	825,744	712	1,894	945	937	1,384	2,591	5,473	14,127	65,503	601,468	123,415	7,295
25-29 years	981,135	720	1,832	899	905	1,343	2,539	5,583	14,593	70,964	718,926	154,885	7,946
30-34 years	654,666	498	1,287	593	583	914	1,700	3,581	9,411	45,632	478,309	106,478	5,680
35-39 years	223,172	178	494	207	228	368	689	1,449	3,504	16,633	161,557	35,572	2,293
40-44 years	32,698	30	86	41	37	69	122	258	590	2,528	23,256	5,240	441
45-49 years	1,176	-	9	1	1	2	13	9	23	118	802	162	36
Race of mother													
White	2,432,242	1,490	3,870	1,900	1,957	3,165	6,011	13,573	36,685	181,536	1,767,932	395,303	18,820
Under 15 years	2,906	1	12	4	7	8	18	34	76	261	2,057	387	41
15-19 years	247,331	180	552	263	279	441	813	2,006	4,862	21,536	176,842	37,569	1,988
15 years	9,291	5	34	13	11	21	54	97	204	858	6,547	1,351	96
16 years	23,844	21	68	25	34	52	84	229	533	2,185	16,858	3,568	187
17 years	46,208	37	100	43	52	86	142	371	913	4,072	32,992	7,010	390
18 years	72,681	54	170	66	85	123	233	590	1,407	6,367	51,991	11,041	554
19 years	95,307	63	180	116	97	159	300	719	1,805	8,054	68,454	14,599	761
20-24 years	615,801	387	959	535	524	860	1,639	3,641	10,066	48,977	445,817	97,754	4,642
25-29 years	805,583	442	1,091	552	569	920	1,763	4,072	11,230	57,593	589,277	132,403	5,671
30-34 years	548,505	333	858	372	389	634	1,209	2,589	7,305	37,539	400,786	92,169	4,322
35-39 years	184,893	125	333	144	161	256	472	1,043	2,680	13,568	133,846	30,489	1,776
40-44 years	26,329	22	58	30	27	44	87	183	449	1,970	18,703	4,403	353
45-49 years	894	-	7	-	1	2	10	5	17	92	604	129	27
Black	576,668	974	2,713	1,255	1,204	1,672	2,948	5,728	12,283	46,265	424,696	69,410	7,520
Under 15 years	5,754	10	26	16	13	18	34	71	147	559	4,105	642	113
15-19 years	130,638	202	555	270	270	409	668	1,315	2,835	10,595	96,790	15,209	1,520
15 years	10,462	17	55	25	17	31	58	125	246	919	7,627	1,189	153
16 years	18,627	32	83	39	39	49	89	191	411	1,551	13,857	2,063	223
17 years	26,509	43	107	54	60	92	154	264	603	2,131	19,592	3,131	278
18 years	35,495	55	140	66	69	103	174	353	755	2,731	26,413	4,240	396
19 years	39,545	55	170	86	85	134	193	382	820	3,263	29,301	4,586	470
20-24 years	185,008	302	888	383	388	496	900	1,698	3,753	14,667	136,871	22,345	2,317
25-29 years	141,713	254	693	326	304	387	701	1,357	2,953	11,121	104,542	17,128	1,947
30-34 years	80,579	152	393	196	162	252	432	872	1,807	6,512	58,754	9,911	1,136
35-39 years	28,239	48	135	52	58	95	181	347	671	2,386	20,278	3,569	419
40-44 years	4,555	6	22	11	9	15	29	65	112	408	3,230	584	64
45-49 years	182	-	1	1	-	-	3	3	5	17	126	22	4
Race of child													
White	2,392,843	1,465	3,796	1,867	1,927	3,100	5,895	13,300	36,042	178,461	1,738,336	390,221	18,433
Under 15 years	2,846	1	12	4	7	8	18	34	74	249	2,016	383	40
15-19 years	241,268	175	537	258	273	423	784	1,951	4,746	21,034	172,334	36,822	1,931
15 years	9,086	5	33	13	10	20	52	95	198	839	6,400	1,327	94
16 years	23,266	20	66	25	34	52	81	223	519	2,141	16,446	3,481	178
17 years	45,129	35	99	42	52	82	137	359	899	3,983	32,193	6,865	383
18 years	70,870	54	163	64	83	116	227	574	1,378	6,225	50,605	10,844	537
19 years	92,917	61	176	114	94	153	287	700	1,752	7,846	66,690	14,305	739
20-24 years	603,715	380	944	521	518	842	1,605	3,543	9,877	48,001	436,733	96,228	4,523
25-29 years	794,812	439	1,073	547	559	905	1,731	4,014	11,064	56,812	581,095	131,005	5,568
30-34 years	541,332	325	843	369	385	626	1,194	2,546	7,188	36,994	395,419	91,191	4,252
35-39 years	182,106	123	324	138	157	251	467	1,024	2,636	13,355	131,770	30,115	1,746
40-44 years	25,889	22	56	30	27	43	86	183	443	1,927	18,376	4,350	346
45-49 years	875	-	7	-	1	2	10	5	14	89	593	127	27

See footnotes at end of table.

Table 33. Live births by 5-minute Apgar score, age of mother, and race of mother and of child: Total of 47 reporting States and the District of Columbia, 1989—Con.

Age of mother and race	Total	5-minute score										Not stated	
		0	1	2	3	4	5	6	7	8	9		10
Black . . . . .	602,081	993	2,764	1,281	1,223	1,716	3,035	5,924	12,692	48,236	443,800	72,652	7,765
Under 15 years . . . . .	5,806	10	25	16	13	18	34	71	148	568	4,145	644	114
15–19 years . . . . .	135,067	207	569	275	275	423	697	1,357	2,912	10,962	100,092	15,747	1,551
15 years . . . . .	10,628	17	55	25	18	32	61	127	251	934	7,744	1,210	154
16 years . . . . .	19,036	33	84	39	39	49	92	195	417	1,581	14,153	2,123	231
17 years . . . . .	27,305	45	108	55	60	95	159	273	611	2,192	20,188	3,236	283
18 years . . . . .	36,797	55	147	68	71	108	179	367	776	2,836	27,409	4,380	401
19 years . . . . .	41,301	57	175	88	87	139	206	395	857	3,419	30,598	4,798	482
20–24 years . . . . .	193,216	307	903	395	389	508	921	1,770	3,876	15,302	143,057	23,400	2,388
25–29 years . . . . .	148,371	257	702	329	312	395	723	1,393	3,053	11,611	109,591	17,989	2,016
30–34 years . . . . .	84,778	157	401	200	166	257	441	904	1,870	6,827	61,916	10,457	1,182
35–39 years . . . . .	29,841	49	140	54	59	99	186	361	709	2,514	21,449	3,779	442
40–44 years . . . . .	4,813	6	23	11	9	16	30	65	117	434	3,421	613	68
45–49 years . . . . .	189	–	1	1	–	–	3	3	7	18	129	23	4

<sup>1</sup>Includes races other than white and black.

NOTE: Excludes data for California, Oklahoma, and Texas, which did not require reporting of 5-minute Apgar score.

## Technical notes

### Source of data

Data shown in this report for 1989 are based on 100 percent of the birth certificates in all States and the District of Columbia. The data are provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program (VSCP). In 1984 and earlier years, the VSCP included varying numbers of States that provided data based on 100 percent of their birth certificates. Data for States not in the VSCP were based on a 50-percent sample of birth certificates filed in those States. Information on sampling procedures and sampling errors for 1984 and earlier years is provided in the annual report, *Vital Statistics of the United States*, Volume I, Natality.

The 1989 revision of the U.S. Standard Certificate of Live Birth includes items to identify the Hispanic or ethnic origin of the newborn's mother and father. Data for Hispanic origin shown in this report with one exception are for the 47 States and the District of Columbia that reported this information in 1989. The one exception is the table which shows estimated birth and fertility rates by Hispanic origin. This topic is discussed in the section below on population denominators.

### Race

Beginning with the 1989 data year, NCHS is tabulating its birth data primarily by race of the mother. In 1988 and prior years, births were tabulated by the race of the child, which was determined from the race of the parents as entered on the birth certificate. When the parents were of the same race, as was the case for 96.6 percent of births in 1989, the race of the child was the same as the race of the parents. When the parents were of different races and one parent was white, the child was assigned to the other parent's race. When the parents were of different races and neither parent was white, the child was assigned to the father's race, with one exception. If either parent was Hawaiian, the child was assigned to Hawaiian. If race was

missing for one parent, the child was assigned the race of the parent for whom race was reported.

The most important factor influencing the decision to tabulate births by race of the mother is the recent revision of the birth certificate, effective with the 1989 data year. This revision includes many more health questions which are directly associated with the mother (for example, method of delivery, medical risk factors for this pregnancy, tobacco and alcohol use during pregnancy, and maternal weight gain). Additionally, many of the other items on the birth certificate for more than two decades also relate directly to the mother, for example, her marital status, her education level, and her receipt of prenatal care. In all these instances, it is more appropriate to tabulate births by the mother's race.

A second factor has been the increasing incidence of interracial parentage. In 1989, 3.4 percent of births were to parents of different races compared with just 1.0 percent 20 years ago. The majority of these births were to white mothers and fathers of another race. There have been two major consequences of the increasing interracial parentage. One is the effect on birth rates by race. The number of white births under the pre-1989 procedures has been arbitrarily limited to infants whose parents were both white (or one parent if only one parent's race was reported). At the same time, the number of births of other races has been arbitrarily increased to include all births to white mothers and fathers of other races. Thus, if race of mother had been used, birth rates per 1,000 white women in a given age group would have been higher while comparable rates for black women and women of other races would have been lower. The other consequence of increasing interracial parentage is its impact on the racial differential in various characteristics of births, particularly in cases where there is generally a large racial disparity, such as the incidence of low birth weight. In this instance, the racial differential is smaller when the data are tabulated by race of child than by race of mother. The same effect has been noted for characteristics such as

nonmarital childbearing, preterm births, late or no prenatal care, and low educational attainment of mother.

The third factor influencing the decision to tabulate births by race of mother is the growing proportion of births with race of father not stated, 15 percent in 1989 compared with 7 percent in 1968. This reflects the increase in the proportion of births to unmarried women; in many such cases, no information is reported on the father. These births are already assigned the race of the mother because there is no alternative. Tabulating births by race of mother will provide for a more uniform approach, rather than a necessarily arbitrary combination of parental races. This topic is discussed in greater detail in a recent paper (16).

It is evident that this change in the racial classification of births will present challenges to those analyzing birth data by race, particularly trend data. The problem is likely to be acute for races other than white and black. In order to facilitate continuity and analysis of the data, key published tables for births in 1989 and 1990, including all trend tables, will show data for both race of mother and race of child. This will make it possible to distinguish the effects of this change from real changes in the data. The text in this report focuses on data tabulated by race of mother except where trends are discussed. In the latter case, the analysis is based on data tabulated by race of child.

### Population denominators

Birth and fertility rates for 1989 shown in tables 1, 3-5, and 12 are based on populations estimated as of July 1, 1989. The population estimates for the United States were published by the U.S. Bureau of the Census (17) and are based on the 1980 census count. The 1980 census counts by race were modified to be consistent with Office of Management and Budget categories and historical categories for birth data. The modification procedures are described in detail in a U.S. Bureau of the Census report (18).

Birth and fertility rates by month shown in table 8 are based on monthly

population estimates also based on the 1980 census count. Rates for unmarried women shown in tables 16 and 17 are based on distributions of the population by marital status as of March 1989 (19) published by the U.S. Bureau of the Census which have been adjusted to July 1989 population levels by the Division of Vital Statistics, NCHS.

Birth and fertility rates for the Hispanic population, shown in table 24, are based on estimates of the Hispanic population from the Current Population Survey conducted in March 1989 (12). The estimates for March have been adjusted to July 1989 population levels so that the rates in table 23 may be compared with those in tables 1 and 3-5. Beginning with 1986, the Current Population Survey figures include estimates of undocumented immigrants (20). The effect of this change is to reduce the levels of some birth and fertility rates by about 1 percent.

### 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 within each age of mother classification. This procedure is done separately by race. A similar process is followed for computing birth rates by age of father.

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 Hispanic population are underestimates of the true rates to the extent that the births in the reporting area with origin of mother not stated (1.9 percent) were actually to Hispanic mothers. In order to compute rates for the Hispanic population for the United States as a whole, estimates were made of births by Hispanic origin and age of mother for the three nonreporting States, Louisiana, New Hampshire, and Oklahoma. The resulting rates are, therefore, estimated for the United States.

The population with origin not stated was imputed. The effect on the rates is believed to be small.

### Births by marital status of mother

Beginning with 1980 data, national estimates of births to unmarried women have been derived from two sources. In 1989 marital status was reported directly on the birth certificates of 44 States and the District of Columbia. In the remaining six States, which lack such an item, marital status is inferred from a comparison of the child's and parents' surnames. This procedure represents a substantial departure from the method used before 1980 to prepare national estimates of births to unmarried women, which assumed that the incidence of births to unmarried women in States with no direct question on marital status was the same as the incidence in reporting States in the same geographic division.

The current method represents an attempt to use related information on the birth certificate to improve the quality of national data as well as to provide data for the individual nonreporting States. An evaluation of this method and its validity for California (the largest nonreporting State) has been published (21). Because of the continued substantial increases in nonmarital childbearing throughout the 1980's, the data have been intensively evaluated. There has been continuing concern that the current method might overstate the number of births to unmarried women because it incorporates data based on a comparison of surnames. This is because births to women who have retained their maiden surname as their legal surname after marriage and who are frequently older, well-educated women, would be classified as nonmarital births. The results of the evaluation have been generally similar in both the reporting States and the States using inferential data, but nonmarital births have increased at a slightly faster rate in the States with a marital status item on the

birth certificate than in the States providing inferential data. This pattern was observed for both white and black births.

### Birth weight

Birth weight 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

### Period of gestation and birth weight

The 1989 revision of the U.S. Standard Certificate of Live Birth includes a new item, "clinical estimate of gestation," that is being compared with length of gestation computed from the date the LMP began when the latter appears to be inconsistent with birth weight. This is done for normal weight births of apparently short gestations and very low birth weight births reported to be full term. The clinical estimate was also used if the LMP date was not reported. The period of gestation for 3.7 percent of the births in 1989 was based on the clinical estimate of gestation. For all but 0.2 percent of these records, the clinical estimate was used because the LMP date was not reported. For the remaining 0.2 percent, the clinical estimate was used because it was compatible with the reported birth weight, whereas the LMP-based gestation was not. In cases where the reported birth weight was inconsistent with both the LMP-computed gestation and the clinical estimate of gestation, the LMP-computed gestation was used and birth weight was reclassified as "not stated."

This was necessary for only 0.01 percent of all birth records in 1989. These changes resulted in only a very small discontinuity in the data.

### **Computation of percents, percent distributions, and medians**

Births with unknown live-birth order, attendant at birth, educational attainment of mother, nativity of mother, month of pregnancy in which prenatal care began, number of prenatal visits, birth weight, length of gestation, and 1- and 5-minute Apgar scores were subtracted from the figures for total births that were used as denominators before percents, percent distributions, and medians were computed. In the case of birth intervals, the percent distributions exclude the second, or later, born child in a multiple delivery (interval of 0 months). Percent distributions and the median number of prenatal visits also exclude 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. Beginning in 1989 an asterisk is shown in place of any derived statistic based on fewer than 20 births in the numerator or denominator.

### **Random variation**

Although the birth data in this report for births since 1985 are not subject to sampling error, they may be affected by random variation in the number of births involved. When the number of events is small (perhaps less than 100) and the probability of such an event is small, considerable caution must be observed in interpreting the data. More information on this topic is included in the Technical Appendix of the annual report, *Vital Statistics of the United States*, Volume I, Natality, 1988.

### **Related reports**

Throughout this report, reference has been made to the 1989 revision of the U.S. Standard Certificate of Live Birth. This report describes birth rates and characteristics of births which have

been based on data available on previous versions of the birth certificate. A second supplement to the Monthly Vital Statistics Report for 1989 birth data will be published and will present summary data on all the new topics included on the new birth certificate. These include method of delivery, tobacco and alcohol use during pregnancy, maternal weight gain, obstetric procedures, medical risk factors, complications of labor and delivery, abnormal conditions of the newborn, and congenital anomalies of the child.

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 American Indian and Alaska Native births (22), first-births to older mothers (1), low birth weight (23), birth rates by educational attainment (7), and births of Hispanic parentage (24,25). Also available is a report evaluating inferred birth statistics for unmarried women in California (21).

This report presents summary tabulations from the final natality statistics for 1989. More detailed tabulations for 1989 will be published in *Vital Statistics of the United States, Volume I—Natality*. Prior to the publication of that volume, the National Center for Health Statistics will respond to requests for unpublished data whenever possible.

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