

# **Wanted and Unwanted Childbearing in the United States 1968, 1969, and 1972 National Natality Surveys**

An analysis of legitimate live births and whether they were wanted at the time they occurred, wanted later, or not wanted at all, as reported by the mother. Discusses trends and variations in relation to race, live-birth order, age of mother, expectation of future births, age at marriage, duration of marriage, education, income, and religious preference.

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# WANTED AND UNWANTED CHILDBEARING IN THE UNITED STATES: 1968, 1969, AND 1972 NATIONAL NATALITY SURVEYS

Robert H. Weller, Ph.D., Center for the Study of Population, Florida State University, and  
Robert L. Heuser, M.A., Division of Vital Statistics, National Center for Health Statistics

## INTRODUCTION

This report presents data on the extent to which American women have children earlier than they would have liked or have children who were not wanted at all. This subject is of interest both for its demographic implications and for the social and economic implications to the mother, father, and child.

Variations in the incidence of unwanted births may help to explain temporal variations in the birth rate. If a substantial proportion of births that occur are unwanted, then declines in this proportion could contribute to substantial downward movements in the birth rate. Some segments of the population are more likely than others to have unwanted births, which may partially explain differences in completed family size among various population subgroups.

The ability to control the timing of births is also important, especially with respect to first births, because the first birth represents the transition to parenthood and its associated roles. By having the first birth before it is wanted, a woman has less child-free time to continue her education and to acquire occupational interests and skills. This may result in an increase in desired family size and hence in actual completed family size. In many cases the first birth leads couples into marriage itself. Presumably, if the timing of all first births were planned, the incidence of illegitimate births and

hasty marriages would be reduced. The importance of this factor may be seen in the fact that 12.5 percent of the legitimate first births occurring in 1972 were conceived premaritally (i.e., born less than 8 months after the first marriage). Among women aged 15-19 years this incidence was 36.6 percent. Thus for many women the planned timing of the first birth would have resulted in a later age at marriage and motherhood. The proportions of these women who might have developed a less family-oriented role and perhaps have chosen to remain single and/or childless permanently are unknown. Even after the first birth, the inability to control the timing of births may reduce the woman's ability to plan her life.<sup>1</sup>

The statistics presented in this report are based on the National Natality Surveys of 1968, 1969, and 1972, which are followback surveys of samples of the legitimate live births occurring during those years.

This report utilizes information supplied by the mother on whether she wanted to become pregnant with her last child (the sample child) at the time she did ("wanted then"), at a later time ("wanted later"), or not at all ("unwanted"). This classification is referred to as the "wantedness status" of the birth. Data are presented to show (1) the extent to which births occurred in each of these three categories, (2) the relationship between the failure to control the number or timing of births and social and

demographic characteristics of the parents, and (3) changes that have occurred between 1968 and 1972.

## SUMMARY OF PRINCIPAL FINDINGS

The data show that many legitimate births in the United States were wanted later or were not wanted at all. A substantial reduction in unwanted childbearing took place between 1968 and 1972, however, with the proportion of legitimate births classified as unwanted declining from 12.7 percent to 8.2 percent. Slightly more than one-fourth of all legitimate births at each date were classified as wanted later. The decrease in unwanted childbearing between 1968 and 1972 contributed to the shift toward lower birth order that occurred.

The variables most strongly related to having an unwanted birth are race<sup>a</sup> and family size variables such as live-birth order<sup>b</sup> and the mother's childbearing expectations. In 1968, 11.6 percent of the white legitimate births were classified as not wanted, compared with 20.5 percent of all other<sup>c</sup> legitimate births. However, between 1968 and 1972 the women of "all other" races experienced an extremely sharp decline in unwanted childbearing, reducing the race differential considerably. In 1972, 8.1 percent of the white legitimate births were unwanted, compared with 9.5 percent of all other births. Shifts toward a lower birth order distribution are more important among white than among all other births in accounting for these changes.

The likelihood that the birth was classified as unwanted increased as the birth order and age of mother increased, was larger when the mother expected no more children than when she expected to have more children, and decreased as the mother's educational attainment increased. About half of the first births that apparently had resulted from a premarital

conception were reported by the mother as being wanted later; only 1 percent were reported as being unwanted. The percent of births unwanted was unrelated to husband's income in 1968, but increased slightly among cases where the husband's income was above the \$2,000-\$3,999 category in 1972.

The elimination of unwanted childbearing among married women would have had a substantial effect on population growth rates during these years. Eliminating unwanted childbearing would also appear to have a substantial effect upon average completed family size, but such a conclusion must be drawn with extreme caution because of the unknown extent to which the childbearing experience of the women giving birth in these years was representative of their entire birth cohorts.

## SOURCES AND LIMITATIONS OF DATA

The data used in this report are from the 1968, 1969, and 1972 National Natality Surveys conducted by the National Center for Health Statistics. A probability sample of births in each year was selected and the mothers of legitimate live births were subsequently sent a mail questionnaire. In 1968 and 1969 the sampling fraction was 1 in 1,000 for white births and 1 in 500 for all other births. In 1972, the sampling fraction was 1 in 500 for all births. Data from the questionnaires were used to supplement data from the birth certificates. Since the statistics derived from this survey are estimates based on a sample, they may differ from the figures that would have been obtained had *all* legitimate births been surveyed using the same questionnaire and procedures. The probability design of the sample makes the calculation of sampling errors possible. Findings discussed in the text are considered statistically significant at the .05 level for a two-tailed test. In some instances, relationships are referred to that are not statistically significant. When this is done, note is made that they are not significant.

A detailed description of the survey procedures, response rates and imputation procedures, and sampling errors as well as facsimiles of the U.S. Standard Certificate of

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<sup>a</sup>The race or color of the mother is used in the text when referring to the child.

<sup>b</sup>Live-birth order refers to the number of children the mother has borne alive, including the sample child.

<sup>c</sup>As used throughout this report "all other" refers to the combined grouping of all races other than white.

Live Birth and the questionnaires are included in the appendixes.

In 1968 and 1969 the dependent variable for this report—whether or not the mother wanted the pregnancy at that time—was measured by tabulating responses to this question: “Just before you became pregnant with your new baby, did you want to become pregnant?” Mothers were instructed to check one of the following:

“Yes.”

“No, wanted a baby, but did not want to become pregnant yet.”

“No, did not want a baby.”

In 1972 the wording of the question was changed slightly to: “Thinking back, *just before you became pregnant* with your new baby, did you want to become pregnant at that time?” Mothers were given their choice of the following responses:

“I wanted this pregnancy at an earlier time, as well as at that time.”

“I wanted to become pregnant at that time.”

“I did not want to become pregnant at that time, but I wanted another child sometime in the future.”

“I did not want to become pregnant at that time, or at any time in the future.”

To allow comparisons, the first two responses to the 1972 question have been considered equivalent to the “yes” that appears in the 1968 and 1969 schedules and are referred to as being “wanted then.” Births that were wanted, but at a later time, are often referred to as “timing failures.” The term “unwanted” always refers to a number failure, a birth that was classified as not wanted at all. While the questions were phrased in terms of the wantedness of the pregnancy, the data in this report refer only to pregnancies resulting in live births and the term “birth” is used throughout the analysis.

It should be emphasized that information on illegitimate births is *not* included in this report. This is especially important for the age group

under 20 years where, in 1972, 34 percent of all births were illegitimate and for births of all other races, 69 percent were illegitimate. The distributions of the illegitimate births by wantedness status as well as by other characteristics may be considerably different than for the legitimate births.

## RESULTS

Table A shows the distribution of legitimate births classified by their wantedness status and the mother’s race. In 1968, 59.4 percent of the births were wanted then, another 27.9 percent were wanted later (timing failures), and the remaining 12.7 percent were unwanted (number failures). Between 1968 and 1972 the percent of births that were unwanted declined; in 1972, 8.2 percent of the legitimate births were unwanted. In relative terms, this was a decrease of about a third. There was an increase in the percent of births reported as being wanted then, from 59.4 to 64.5 percent. There was no change in the percent of births that were timing failures.

The number of legitimate births declined by 337,000, or 11 percent, between 1968 and 1972. Half of this decline was accounted for by the decline in unwanted births and another third by births that were wanted later. Births that were wanted then represented only a sixth of the total decline in the number of legitimate births.

Black mothers were more likely than white mothers were to have had either a number failure or a timing failure in 1968, and were thus less likely to have had a birth that was wanted then. The differential between black and white mothers in the percent of births unwanted declined markedly during this period, primarily due to the large decrease in unwanted births among black mothers, and by 1972 there was no significant difference between the percents for white and black mothers. This is because the proportion of black births that were unwanted declined from 21.6 percent in 1968 to 9.9 percent in 1972, while the proportion of white births that were unwanted declined from 11.6 to 8.1 percent. These declines amounted to about a half for black births and about a third for white births.



Table A. Estimated number, percent distribution, and rate of legitimate live births, by wantedness status and race of mother: United States, 1968, 1969, and 1972 National Natality Surveys

Race of mother and wantedness status	Number in thousands			Percent distribution			Rate <sup>1</sup>		
	1972	1969	1968	1972	1969	1968	1972	1969	1968
<b>ALL RACES</b>									
Total.....	2,839	3,242	3,176	100.0	100.0	100.0	100.6	119.3	117.7
Wanted then .....	1,832	2,035	1,886	64.5	62.8	59.4	64.9	74.9	69.9
Wanted later .....	773	833	885	27.2	25.7	27.9	27.4	30.7	32.8
Unwanted.....	234	373	405	8.2	11.5	12.7	8.3	13.7	15.0
<b>WHITE</b>									
Total.....	2,504	2,844	2,774	100.0	100.0	100.0	100.1	117.7	115.7
Wanted then .....	1,642	1,851	1,700	65.6	65.1	61.3	65.6	76.6	70.9
Wanted later .....	661	704	751	26.4	24.8	27.1	26.4	29.1	31.3
Unwanted.....	202	289	323	8.1	10.2	11.6	8.1	11.9	13.5
<b>ALL OTHER</b>									
Total.....	335	398	402	100.0	100.0	100.0	104.0	132.4	133.7
Wanted then .....	190	184	185	56.9	46.3	46.2	59.1	61.3	61.7
Wanted later .....	113	130	134	33.7	32.6	33.4	35.0	43.1	44.6
Unwanted.....	32	84	82	9.5	21.2	20.5	9.9	28.0	27.4
<b>Black</b>									
Total.....	285	352	355	100.0	100.0	100.0	103.5	131.0	---
Wanted then .....	160	154	156	56.2	43.8	44.0	58.2	57.3	---
Wanted later .....	97	119	122	33.9	33.8	34.4	35.1	44.2	---
Unwanted.....	28	79	77	9.9	22.5	21.6	10.2	29.4	---

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

NOTE: Numbers may not add to totals due to rounding.

Most of the data in this report are presented in terms of the percent of births in a given group that were wanted or unwanted. The level of legitimate fertility may also be described in terms of the probabilities of bearing a wanted or unwanted child. The probabilities may be measured by relating the number of legitimate births of a particular wantedness status to the number of married women in the childbearing ages (assumed to be 15-44 years). The result is an age-specific legitimate birth rate for each category of wantedness status. These rates are shown in tables A and B. The denominator includes all married women and does not differentiate between women who may or may not want another child. Such a distinction would have given a more precise probability.

The rates show that the probability of

bearing a child declined between 1968 and 1972 for each wantedness category for total and for white legitimate births. For all other births, the declines were significant only for births that were wanted later and were unwanted. The increase between 1968 and 1972 in the *percent* of births of all races wanted then reflects the fact that the relative decline in the *rates* was greater for unwanted births than for births wanted then.

While there was a decline in the rate for births wanted later and for unwanted births, it was relatively greater for unwanted births. This may be an indication that the consequences of a timing failure are not seen to be as great as for a number failure. Couples may become more effective family planners when they have had all the children they want and are no longer concerned with failures that merely involve the

Table B. Estimated rates for married women, by wantedness status and age of mother: United States, 1968, 1969, and 1972 National Natality Surveys

[Rates are legitimate births per 1,000 married women of specified age]

Wantedness status	Age of mother					
	15-44 years <sup>1</sup>	15-19 years <sup>2</sup>	20-24 years	25-29 years	30-34 years	35-44 years <sup>3</sup>
<u>Total</u>						
1972.....	100.6	381.2	192.7	136.3	67.0	16.6
1969.....	119.3	436.7	246.9	161.3	80.6	22.8
1968.....	117.7	462.5	242.5	157.3	80.2	24.2
<u>Wanted then</u>						
1972.....	64.9	233.6	127.4	94.9	39.3	8.3
1969.....	74.9	248.6	166.2	108.1	43.7	10.9
1968.....	69.9	259.5	152.8	100.3	42.2	10.7
<u>Wanted later</u>						
1972.....	27.4	129.4	57.1	31.4	18.3	2.9
1969.....	30.7	158.2	66.4	38.0	18.6	3.0
1968.....	32.8	177.0	73.2	38.4	19.6	3.8
<u>Unwanted</u>						
1972.....	8.3	18.1	8.2	10.1	9.4	5.5
1969.....	13.7	29.9	14.3	15.2	18.3	8.9
1968.....	15.0	26.0	16.5	18.5	18.4	9.8

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

<sup>2</sup>Rates computed by relating legitimate births to mothers under 20 years to married women aged 15-19 years.

<sup>3</sup>Rates computed by relating legitimate births to mothers 35 years and over to married women aged 35-44 years.

timing of births. This is consistent with the increases in the use of more effective methods of contraception (the "pill" and intrauterine device) and in sterilization, especially among older couples.<sup>2,3</sup>

The 1972 survey permitted the mother to indicate that she would have liked the pregnancy to occur earlier, an alternative that was not presented to the responding mother in 1968 or 1969. This represents a different type of timing failure—failure to become pregnant when desired rather than becoming pregnant sooner than desired. In 1972, 20.5 percent of the legitimate births were wanted earlier than they actually occurred. White births were more likely to be reported as wanted earlier than were all other births (21.1 percent as compared with 16.1 percent).

There is an inverse relationship between the percent of births wanted earlier and birth order—24 to 25 percent of the first and second order births were wanted earlier while only 6.9

percent of the fifth and higher order births were in this category (figure 1). There is a slight tendency for the percent of births wanted earlier to increase with age of mother; the proportion increased from 16.8 percent for mothers under 20 years to 22 to 23 percent for mothers aged 25-29 and 30-34 years.

### Birth Order and Age of Mother

The birth order of the infant is closely related to the wantedness status of the birth, as may be seen in table 1 and figure 2. With few exceptions, the higher the birth order the more likely it is that the birth was classified as unwanted and the less likely it is that the birth was classified as wanted then. For example, only 1.3 percent of the first order births in 1972 were unwanted, compared with 41.1 percent of the fifth and higher order births. Conversely, first order births were twice as likely to have been wanted then (74.3 percent) as were fifth and

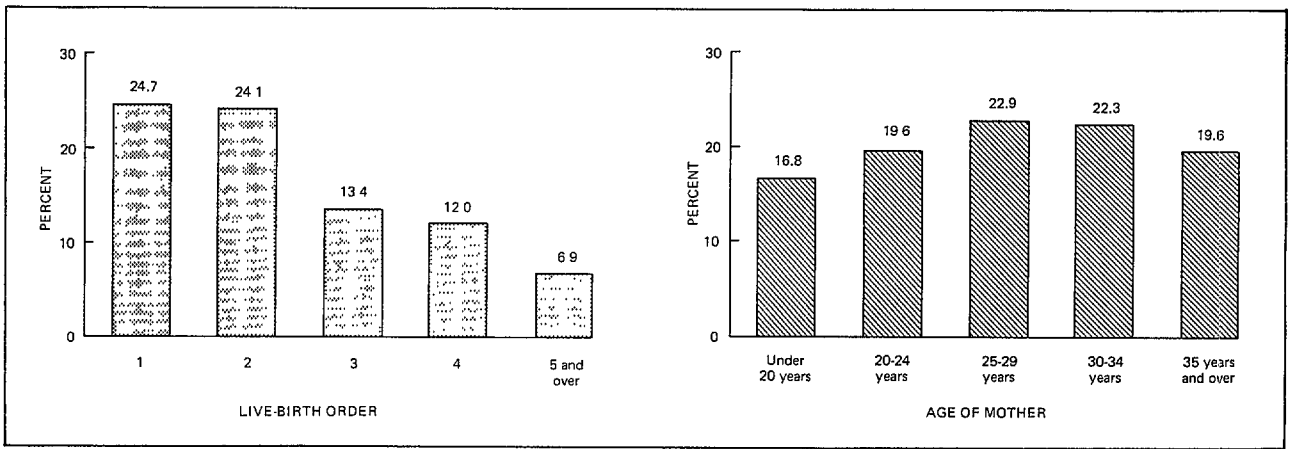


Figure 1. Percent of legitimate live births wanted earlier, by live-birth order and by age of mother: United States, 1972 National Natality Survey

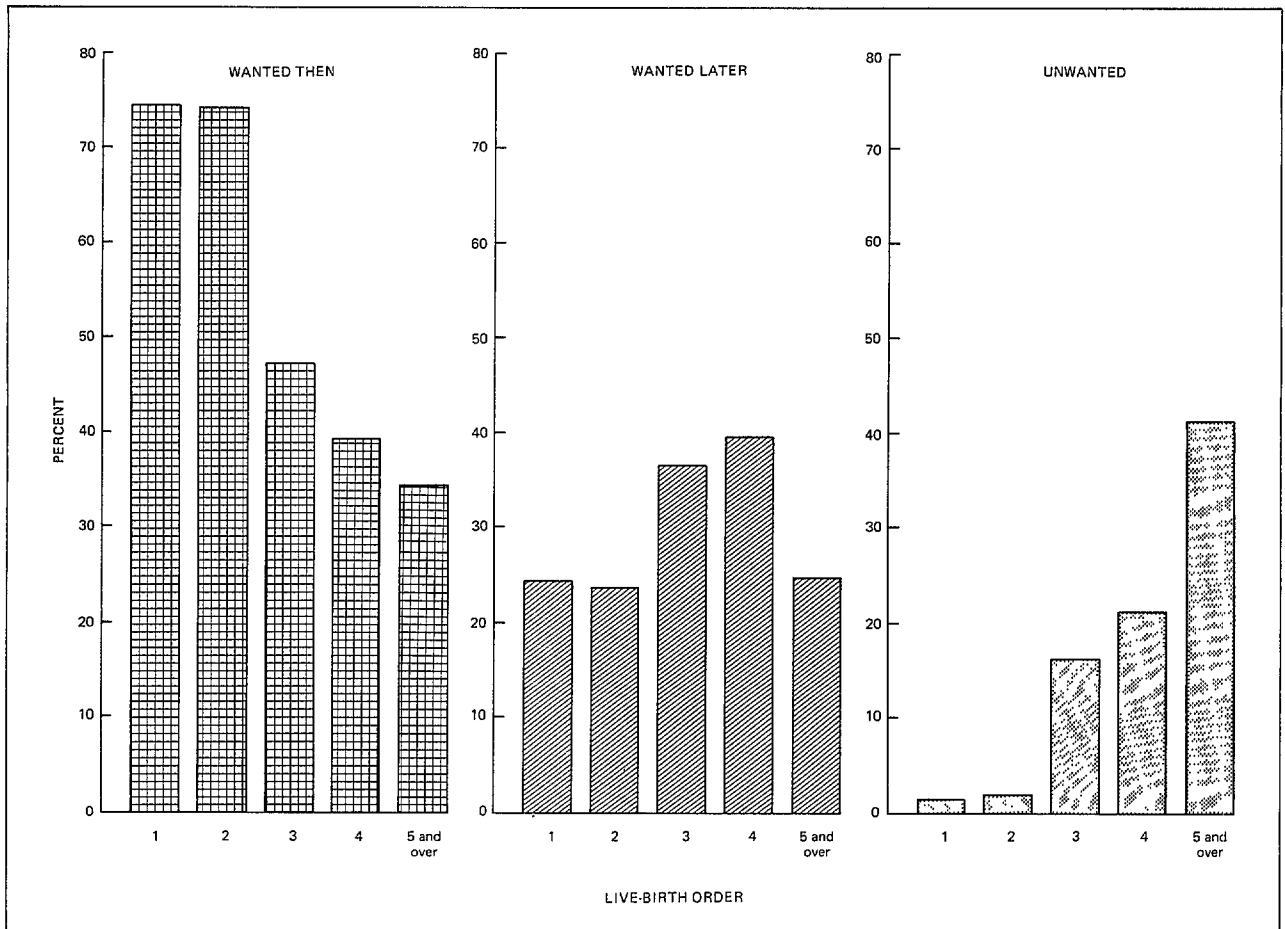


Figure 2. Percent of legitimate live births by wantedness status, by live-birth order: United States, 1972 National Natality Survey

higher order births (34.4 percent). There was no significant difference between first and second or between the fourth and fifth and higher order births in the percent wanted then. The biggest differences in the percent unwanted were between the second and third children (2.0 percent compared with 16.1 percent) and between the fourth and fifth and higher order children (21.1 percent compared with 41.1 percent).

The distribution of births by live-birth order shifted toward the lower orders between 1968 and 1972. The downward shift in birth order may be seen in the change in the proportion of legitimate births that are fourth or higher orders. Between 1968 and 1972, this proportion decreased from 22.1 to 14.7 percent. Since the higher order births are more likely to be unwanted, the decline in the percent of births

that were unwanted would account for some of the decline in this proportion.

Although the proportion of births that were unwanted in 1968 was lower for white mothers than for all other mothers at every birth order, the difference is significant only for second and third order births. By 1972 the proportion was significantly lower only for first order births and was significantly higher for fifth and higher order births; for third and fourth orders the percents unwanted were higher for white mothers, but not significantly. Between 1968 and 1972 there were declines in the percent unwanted for all other mothers in all birth orders except the first order.

The wantedness status of the birth is also related to the age of the mother (table 1 and figure 3). In 1972 the percent of legitimate births that were wanted then increased from

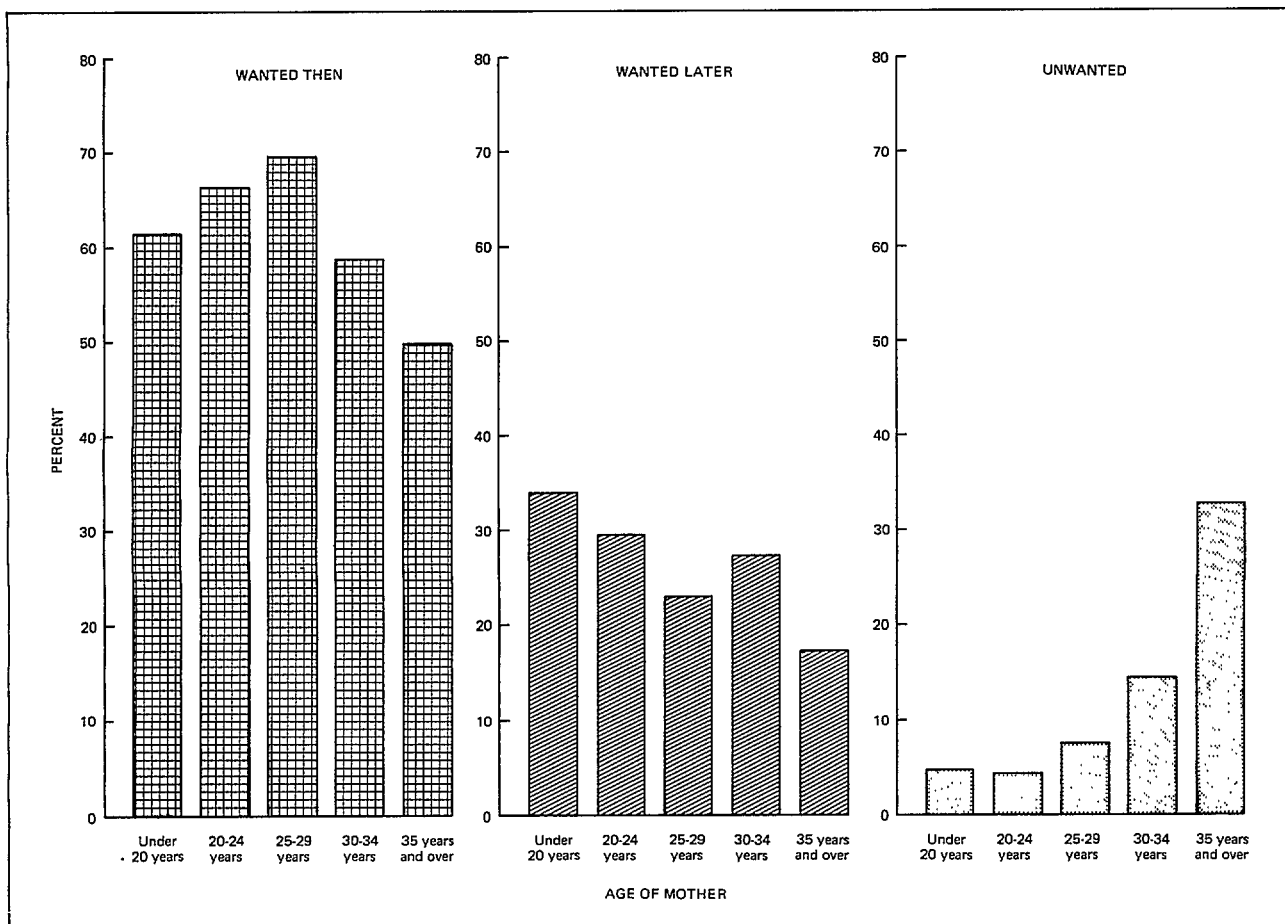


Figure 3. Percent of legitimate live births by wantedness status, by age of mother: United States, 1972 National Natality Survey

61.3 for mothers under 20 years to 69.6 for the 25-29-year age group and then decreased to 49.9 for mothers 35 years and older. The percent wanted later generally decreased with age, ranging from 34.0 percent for mothers under 20 years of age to 17.2 percent for mothers 35 years and older. The percent of births not wanted at all increased from 5 and 4 percent for mothers under 20 and 20-24 years, respectively, to about 33 percent for the oldest age group.

The rate per 1,000 married women and the percent of births that were wanted later had the same relationship with age of mother—the older ages had lower rates and lower percents (table B). The rate had generally this same relationship with age for births that were unwanted and that were wanted then. However, the percent of births unwanted was higher for older mothers and the percent wanted then was higher for mothers aged 25-29 years than for younger or older mothers. The most striking difference between these two measures was for births classified as unwanted; in this category the percent was highest and the rate was lowest for women 35 years and older. This reflects the fact that few of these older women were having births but a large proportion of the births that did occur to these women were unwanted.

The *percent* of births unwanted was lower in 1972 than in 1968 for each age-of-mother group except for those in the age group 18-19 years. The percent of births wanted then was higher in 1972 for all mothers except those aged 20-24 years.

There were significant declines in the *rate* of unwanted childbearing for women in all age groups. For births that were wanted later the rates declined for all women except at ages 30-34 years; for births wanted then there were declines only for ages 20-24 years and 35 years and over.

### **Birth Expectations**

Women who expect no more children are much more likely than other women to have classified the last birth as unwanted and are much less likely to have classified it as wanted then, as may be seen in table 2. This is to be expected since women who say their last child was unwanted would be far less likely than other

women to expect more children. This same pattern is seen for all birth orders except the second.

Expected completed family size is strongly related to the wantedness status of the birth. This is because current birth order, which is one of the components of family size, is related to wantedness status. Within each order, the number of additional births expected by the mother—the other component of family size—is not related to the percent of births wanted then. This is also true for births wanted later and for unwanted births.

### **Age at Marriage**

Age at marriage is related to the wantedness status of the birth, as shown by the data in table 3. In 1972, mothers who had married at age 30 or older were more likely than mothers who had married younger to classify their birth as unwanted. There was also a general tendency for the percent of births wanted later to decrease as the age at marriage increased and for the percent wanted then to increase as age at marriage increased. These relationships for births that were wanted then and wanted later are also seen in the 1968 data. However, for unwanted births the relationships were quite different in 1968 than in 1972. Indeed, in 1968 mothers most likely to classify their birth as unwanted were those married before age 18. The only significant declines between 1968 and 1972 in the proportion of mothers who classified their birth as unwanted were for those who were married before age 18, at ages 19-20, and 21-22. These declines were accompanied by increases in the percent of births wanted then for these age-at-marriage groups.

Although table 3 shows some large differences by color in the percent of births unwanted, many of these percents are based on relatively small numbers of births and, therefore, have large sampling errors. This is especially true for all other births.

### **Duration of Marriage**

Although no direct question was asked concerning premarital conception, the 1972 data can be used to calculate the number of months

between the date of the woman's present marriage and the date of the present birth (table C). When analysis is restricted to mothers who have been married only once, it is seen that 12.5 percent of the first births occurred less than 8 months after marriage and probably were the result of a premarital conception. These infants were less likely than other births to be wanted then, and more likely to have been wanted later. For first births occurring within 8 months of first marriage, 45.8 percent were wanted then, and 53.4 percent were wanted later. By contrast, of first infants born 12 or more months after marriage 85.7 percent were wanted then and 13.0 percent were wanted later. There was no significant difference in the proportion unwanted for these duration-of-marriage groups.

Three general patterns are seen in the 1972 data when longer durations of marriage and all birth orders are examined. These data, for women married one time, are shown in table 4. The first pattern is that births occurring less than 12 months after marriage were more likely than those occurring 12-23 months after marriage to be wanted later (i.e., timing failures), and were less likely to be wanted then. This is primarily a function of the incidence of premaritally conceived births within the

0-11-month category, because it was observed only for first births. For first births, 48.3 percent occurring less than 12 months after marriage but only 18.6 percent occurring 12-23 months after marriage were timing failures. By contrast, about half of the second order births occurring both less than 12 months and 12-23 months after marriage were timing failures. Similarly, among first order births 50.5 percent of the births within 12 months after marriage and 80.7 percent of those 12-23 months after marriage were wanted then; among second order births about half of the births in *both* groups were wanted then.

The second major pattern in table 4 is that after 3-4 years of marriage (36-47 months) the longer the duration of marriage the greater the probability that the birth was classified as unwanted. Although this tendency was present within all birth order categories except the first and fifth and higher, some of the differences for specific birth orders were not significant.

The third pattern seen in table 4 is that for first, second, and third order births the longer the duration of marriage the less likely that the birth was a timing failure. For second order births in 1972, the percent of births that were timing failures declined from about 50 percent

Table C. Estimated number of legitimate first births to women married once and percent distribution by wantedness status, by duration of marriage and color of mother: United States, 1972 National Natality Survey

Color of mother and duration of marriage	Number of births (in thousands)	Total	Wanted then	Wanted later	Unwanted
			Percent distribution		
Total .....	1,001	100.0	74.3	24.5	1.3
0-7 months .....	125	100.0	45.8	53.4	0.8
8-11 months .....	201	100.0	53.4	45.1	1.5
12 months and over .....	676	100.0	85.7	13.0	1.3
White .....	887	100.0	74.8	24.1	1.1
0-7 months .....	108	100.0	45.6	53.9	0.5
8-11 months .....	175	100.0	54.1	44.2	1.7
12 months and over .....	604	100.0	86.1	12.9	1.0
All other .....	114	100.0	69.8	27.6	2.7
0-7 months .....	17	100.0	46.6	50.3	3.1
8-11 months .....	26	100.0	49.0	51.0	-
12 months and over .....	72	100.0	82.6	13.9	3.6

NOTE: Numbers may not add to totals due to rounding.

among births occurring less than 2 years after marriage to only 4.1 percent among women giving birth 14 years or more after marriage.

### Education of Parents

The wantedness status of the birth in relation to the educational attainment of each parent is shown in tables 5 and 6 and figures 4 and 5. Higher educational attainment of the father was generally associated with a higher percent of births wanted then and a lower percent of births unwanted. In 1972, 53.6 percent of the births to fathers with 0-8 years of school were classified by the mother as wanted then as compared with 71.9 percent for fathers with 4 or more years of

college. The percent of births unwanted was 15.9 percent for fathers with the lowest education, decreased to 4.6 percent for those with some college, and then increased slightly to 7.2 percent for fathers who had completed 4 or more years of college. Examined through time, the likelihood of a birth being unwanted has decreased significantly between 1968 and 1972 for all fathers except those with 0-8 years of school (figure 6), while the percent of births wanted then increased for fathers with 9-11 through 13-15 years of school.

Similar patterns are present for the educational attainment of the mother. However, the percent of births wanted then decreased from the 0-8- to 9-11-years-of-school category, and

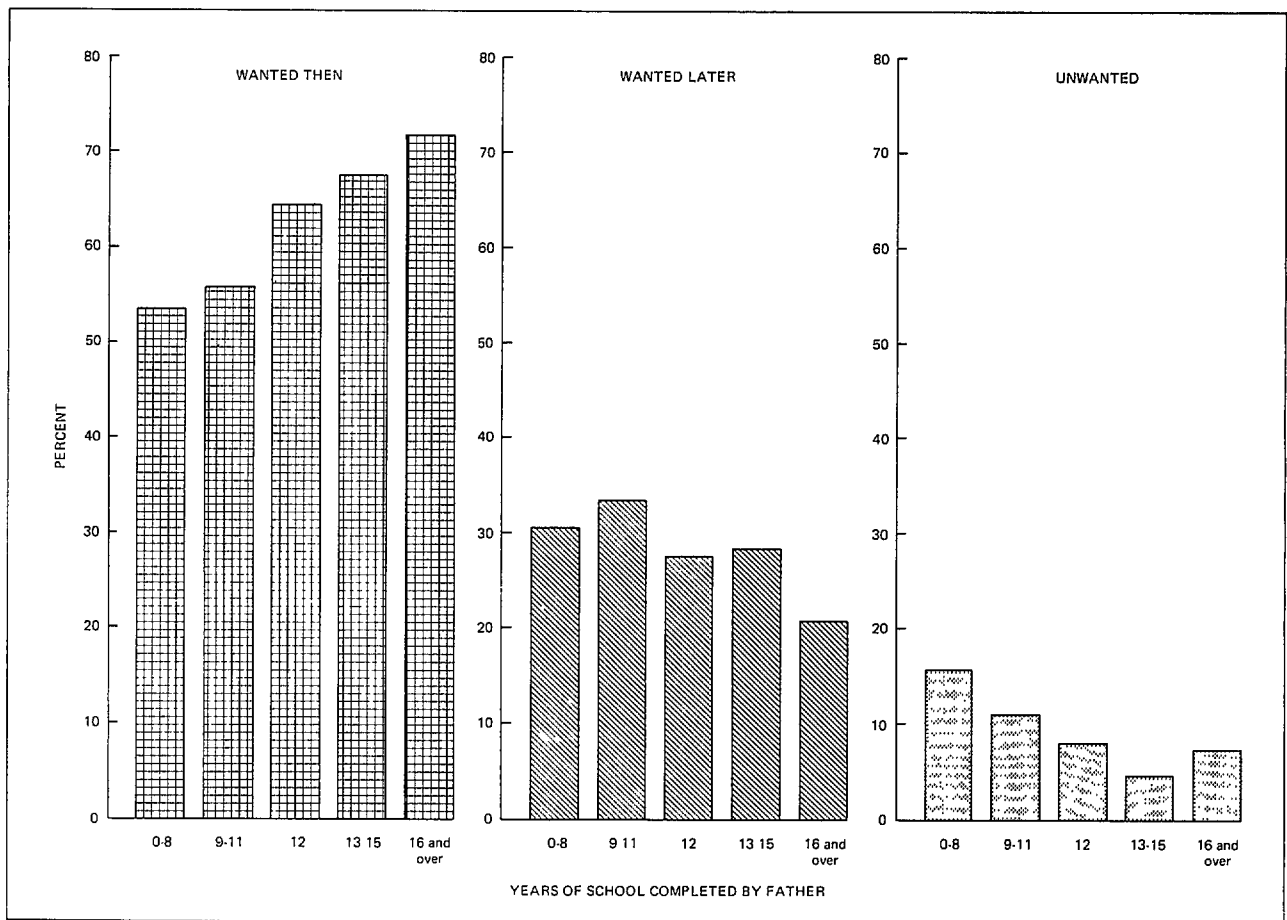


Figure 4. Percent of legitimate live births by wantedness status, by educational attainment of father: United States, 1972 National Natality Survey

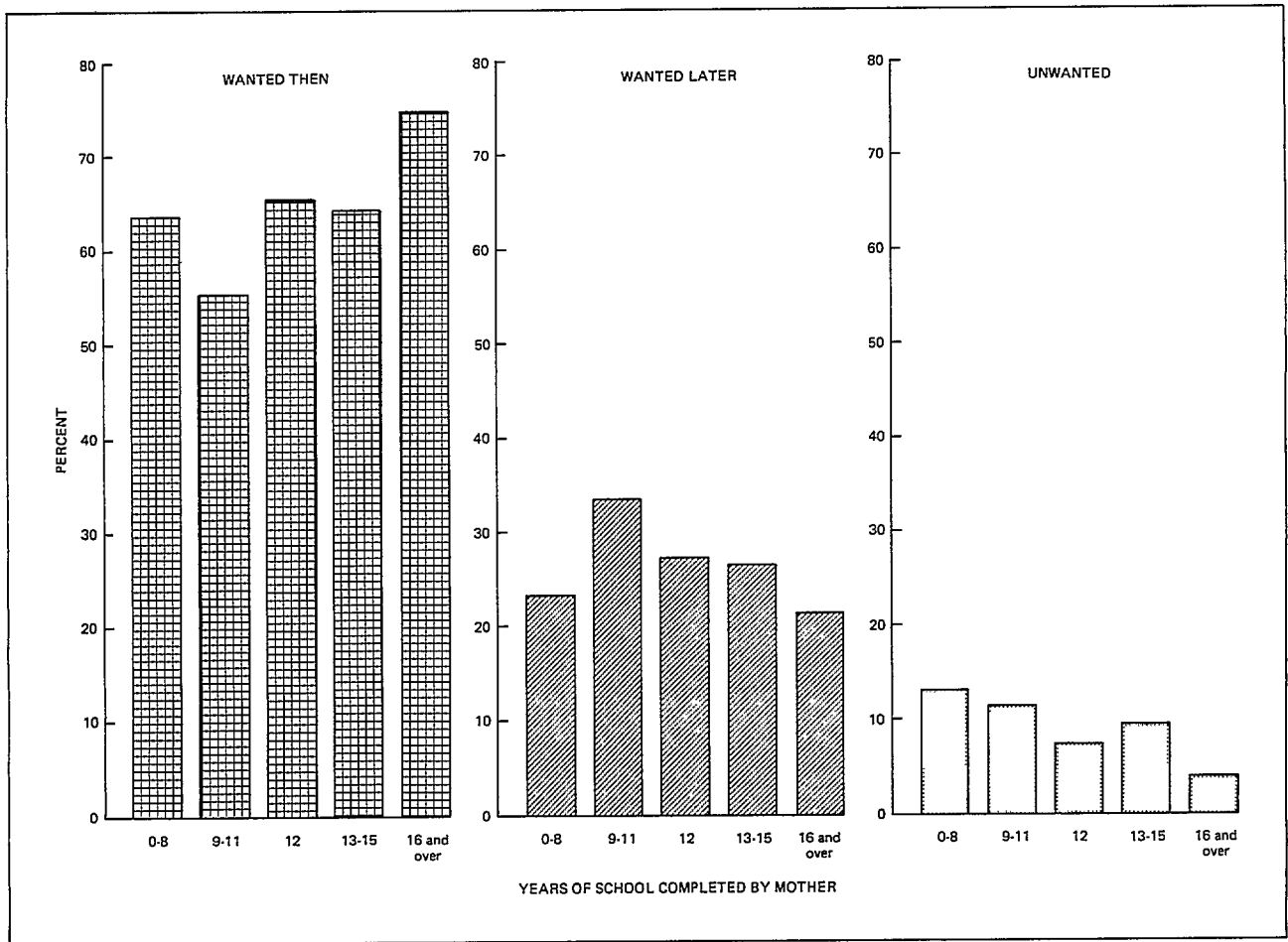


Figure 5. Percent of legitimate live births by wantedness status, by educational attainment of mother: United States, 1972 National Natality Survey

then increased to the highest education group. In general, the higher the number of grades completed by the mother the less likely it was that the birth was classified as unwanted. When birth order is controlled, the negative relationship between unwanted childbearing and the mother's education generally disappears. Between 1968 and 1972, unwanted childbearing declined among mothers at all educational levels.

There were differences in unwanted childbearing between white and all other mothers in the 0-8-, 9-11- and 12-year categories of educational attainment in 1968. In 1972, the only significant color difference was for mothers with 9-11 years of school completed.

### Husband's Income

Between 1968 and 1972, the percent of births unwanted declined for all but the lowest (under \$2,000) income group (table 7). In 1968, husband's income was unrelated to whether the birth was classified as unwanted. However, in 1972 the percent unwanted declined from the under-\$2,000 to the \$2,000-\$3,999 category and then increased to the income groups \$7,000 and over.

Husband's income is inversely associated with the proportion of births that were timing failures. In 1972, 38.2 percent of births in the lowest income category were wanted later as



compared with only 17.8 percent in the highest income category. Thus people in the lowest income category were about twice as likely as people in the highest category to experience a timing failure.

The pattern of increase in the percent of births unwanted with increasing income for total and white mothers may be primarily a reflection of differences in the duration of marriage. Higher income groups have a longer duration of marriage and, as we have already observed, after 3-4 years of marriage the proportion of births unwanted rises with duration of marriage (table 4). Table 8 shows the percent of births unwanted by husband's income within four duration-of-marriage groups for women married once. These data show no significant differences in the percent unwanted for incomes of \$2,000 or more for any duration-of-marriage category. In fact the pattern, although not significant, is toward a decrease rather than an increase in the percent unwanted with higher income in each duration-of-marriage category.

#### Religious Preference of Parents

The 1968 and 1969 surveys contained a question concerning the religious preference of each parent. Differences in wantedness status by religious preference were minimal, with one exception. Jewish women were less likely than other women to report their birth as unwanted or as wanted later and were more likely to report it as wanted then (table 9). This is shown by the data on both the mother's and the father's religious preference.

### CHARACTERISTICS OF WANTED AND UNWANTED BIRTHS

Previous sections of this report have focused on the distribution of births by wantedness status within specific groups such as live-birth order, age of mother, and so on. In this section, the births of a particular wantedness category are described in terms of these other characteristics. For example, are mothers of unwanted births older or younger than mothers of births that are wanted then? Estimated numbers of

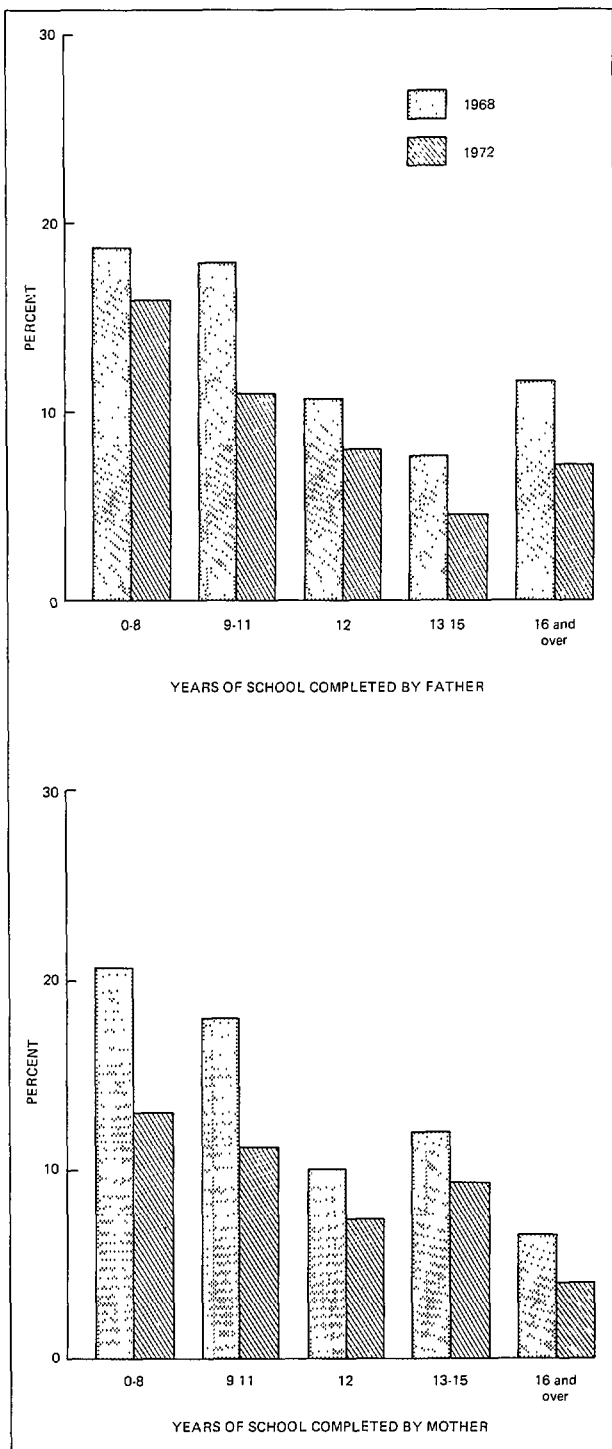


Figure 6. Percent of legitimate live births unwanted, by educational attainment of father and of mother: United States, 1968 and 1972 National Natality Surveys

legitimate births and percent distributions by selected characteristics are shown for each category of wantedness status in tables 10 and 11.

### **Color and Live-Birth Order**

In each of the three survey years, about 90 percent of the births wanted then and about 85 percent of the births wanted later were to white mothers. The percent of unwanted births to white mothers increased from 80 percent in 1968 to 86 percent in 1972 reflecting the greater decline in unwanted childbearing among mothers of all other races. Unwanted births were of higher birth order than births in the other two wantedness categories. In 1972, 86 percent of the unwanted births were third and higher order as compared with only 20 percent of the births wanted then and 38 percent of the births wanted later; this is also reflected in the median birth orders of 4.3, 1.2, and 1.6, respectively. Since age of mother and live-birth order are related, it is expected that mothers of unwanted births would be older on the average than mothers of other births would be. Median ages show that mothers of unwanted births were 4 to 5 years older on the average than mothers in the other two categories.

### **Educational Attainment of Mother**

Although there is little difference in the median years of school completed by the mother for the different categories of wantedness status, the percent distributions show that mothers of unwanted births had somewhat lower educational attainment than the other groups of mothers had. While 30.0 percent of the mothers of unwanted births had not completed high school, only 18.8 percent of mothers whose births were wanted then were in this educational group. In addition, only 5.7 percent of the mothers of unwanted births had completed 16 or more years of school as compared with 13.7 percent of the mothers of births that were wanted then.

### **Income**

Income data are often used as a measure of socioeconomic status. The distributions of births

by husband's income and median income shown in tables 10 and 11 can be compared from one wantedness category to another, but should not be compared from one year to another because the income data are not given in constant dollars.

The data in table 11 show that the lowest median income is associated with births that were wanted later. This is consistent with the fact that most births in this category occur to young mothers, whose husbands are presumably just beginning their careers.

The median income for fathers of unwanted births was as high in each survey year as for fathers of births that were wanted then. The mothers of unwanted births were considerably older and their husbands were far closer to their maximum earning power than were the mothers of births wanted then. The data on income are thus consistent with a lower socioeconomic status for mothers of unwanted births than for mothers of births wanted then, and the distributions of births by husband's income are compatible with those by education.

## **EFFECT OF UNWANTED CHILDBEARING ON POPULATION GROWTH**

The number of unwanted legitimate births in each year was quite large, ranging from 405,000 in 1968 to 234,000 in 1972. To what extent did these unwanted births contribute to the Nation's population growth during these years? Table D shows estimates of the population growth that would have occurred if there had been no unwanted legitimate live births in each year. Under these conditions, the amount of population growth would have been reduced by 20.7 percent in 1968, 17.9 percent in 1969, and 14.5 percent in 1972.

Another way of looking at this question is to estimate what proportion of the decline in the birth rate between 1968 and 1972 can be attributed to changes in unwanted marital childbearing. The crude birth rate for the United States declined from 17.5 births per 1,000 population in 1968 to 15.6 in 1972, a change of 1.9 points. If no unwanted legitimate births had occurred in 1968, the birth rate would have been 15.5, and

Table D. Effects of unwanted childbearing on population growth: United States, 1968, 1969, and 1972

[Rates per 1,000 population]

Year	Population growth			Rates of population growth		
	With unwanted births <sup>1</sup>	Without unwanted births	Percent reduced	With unwanted births <sup>1</sup>	Without unwanted births	Percent reduced
1972.....	1,615,000	1,381,000	14.5	7.7	6.6	14.3
1969.....	2,089,000	1,716,000	17.9	10.3	8.5	17.5
1968.....	1,952,000	1,547,000	20.7	9.7	7.7	20.6

<sup>1</sup>Based on components of change published by the U.S. Bureau of Census in *Current Population Reports*, Series P-25, No. 521, Washington. U.S. Government Printing Office, May 1974.

if no unwanted births had occurred in 1972 the rate would have been 14.5. Thus, about half of the reduction in the crude birth rate between 1968 and 1972 can be attributed to reductions in unwanted marital childbearing and the other half can be attributed to changes in other factors including wanted (wanted then as well as wanted later) legitimate births.

Because the data in this report do not represent the total childbearing experience of an actual cohort of women as it passes through the childbearing ages, it is not possible to determine the effects of eliminating unwanted childbearing upon actual completed family size. However, the total fertility rate provides an estimate of completed family size (per 1,000 women) *if* current levels of fertility and timing patterns persist and *if* the mothers in the sample are representative of all women in their birth cohorts.

Total fertility rates were computed with the unwanted births excluded and compared with the actual rates. In 1968, the adjusted total fertility rate (excluding unwanted births) was 13 percent lower than the actual rate, 2,158 compared with 2,477. In 1972, when there were fewer unwanted births, the difference was reduced to 8 percent (1,853 compared with 2,022). It should be emphasized that these rates show the implications of current age-specific

levels of fertility for completed family size and not actual or expected family size.

So far we have been discussing the effect of number failures on rates of population change. The demographic effect of timing failures is more difficult to estimate since these are births that were wanted, but at some other time. This report has concentrated upon a subset of these births, those that were wanted later rather than earlier. In each year, the number of births wanted later was substantially larger than the number of unwanted legitimate births. In 1972 there were about three times as many births wanted later as there were unwanted births. The demographic effect upon period fertility rates of hypothetically postponing these births until they are wanted is minimized by two considerations. First, any downward pressures on the birth rate caused by the removal of this many births from the numerator would be shortlived and would last only until the postponed births began to occur in subsequent years, when they would exert upward pressures on the birth rate. Second, the 1972 data indicate that 20.5 percent of the births were wanted at some earlier time. Having these births at the time they were wanted would, in turn, partially offset the effect of the postponement of births that were wanted later.



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Table 1. Estimated number of legitimate live births and percent distribution by wantedness status, according to age of mother, live-birth order, and color of mother: United States, 1968, 1969, and 1972 National Natality Surveys

Age of mother, live birth order, and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
<b>TOTAL</b>	Number in thousands			Percent								
All ages .....	2,839	3,242	3,176	64.5	62.8	59.4	27.2	25.7	27.9	8.2	11.5	12.7
First child.....	1,036	1,133	1,125	74.3	72.8	69.5	24.4	24.6	27.6	1.3	2.6	2.9
Second child.....	951	909	851	74.1	73.0	72.9	23.9	22.9	23.7	2.0	4.0	3.4
Third child.....	435	566	497	47.1	55.1	51.5	36.7	29.2	32.9	16.1	15.7	15.6
Fourth child.....	202	270	310	39.1	46.9	39.8	39.7	28.3	32.7	21.1	24.7	27.6
Fifth child and over.....	214	365	393	34.4	29.8	26.6	24.5	28.7	27.6	41.1	41.6	45.8
Under 20 years .....	419	431	456	61.3	56.9	56.1	34.0	36.2	38.3	4.8	6.8	5.6
First child.....	252	326	350	64.7	58.7	59.7	33.1	35.6	36.1	2.3	5.7	4.3
Second child.....	104	81	75	65.3	55.8	50.3	33.7	37.1	47.8	0.9	7.1	1.9
Third child and over.....	63	24	31	41.3	37.0	30.0	37.7	42.0	40.3	21.0	21.0	30.0
Under 18 years.....	125	101	122	64.9	57.1	51.2	32.5	36.2	43.1	2.6	6.7	5.7
First child.....	80	88	106	65.6	58.0	52.2	33.7	34.9	42.1	0.6	7.1	5.7
Second child.....	31	12	12	72.8	59.6	40.7	27.2	40.4	55.5	-	-	3.8
Third child and over.....	14	*2	*3	43.0	-	*57.3	36.9	*70.4	*28.2	20.2	*29.6	*14.5
18-19 years.....	294	330	335	59.8	56.9	57.9	34.6	36.2	36.5	5.7	6.9	5.6
First child.....	172	238	244	64.2	58.9	62.9	32.8	35.8	33.4	3.0	5.2	3.7
Second child.....	73	70	63	62.2	55.2	52.3	36.5	36.5	46.3	1.3	8.4	1.5
Third child and over.....	50	22	28	40.9	40.4	26.6	38.0	39.4	41.7	21.2	20.2	31.7
20-24 years.....	1,037	1,246	1,193	66.1	67.3	63.0	29.6	26.9	30.2	4.3	5.8	6.8
First child.....	461	564	533	74.7	74.8	69.9	24.6	23.5	27.4	0.8	1.7	2.7
Second child.....	398	442	417	69.8	69.3	69.6	28.8	26.7	26.4	1.4	4.1	4.0
Third child.....	109	163	160	37.4	49.4	40.0	51.1	37.3	42.8	11.5	13.3	17.3
Fourth child and over.....	69	77	84	33.0	39.6	30.7	33.8	30.5	42.0	33.3	29.4	27.0
20-21 years.....	366	485	487	63.7	68.2	60.9	31.9	27.4	32.7	4.4	4.5	6.3
First child.....	185	273	273	71.9	76.0	66.2	27.3	22.0	30.5	0.8	2.1	3.3
Second child.....	130	144	159	65.2	64.9	63.8	32.9	30.9	30.3	1.9	4.2	5.9
Third child.....	28	54	41	27.6	48.2	25.8	58.9	44.3	55.6	13.6	7.5	18.6
Fourth child and over.....	22	13	14	32.6	23.8	27.1	30.6	29.2	37.1	36.8	45.4	35.0
22-24 years.....	671	761	706	67.4	66.8	64.5	28.4	26.6	28.4	4.2	6.6	7.1
First child.....	275	291	260	76.6	73.6	73.7	22.7	25.0	24.3	0.7	1.4	2.1
Second child.....	268	297	258	72.1	71.4	73.2	26.8	24.6	24.0	1.1	4.0	2.9
Third child.....	81	109	119	40.8	50.1	44.8	48.4	33.8	38.4	10.7	16.2	16.8
Fourth child and over.....	47	64	70	33.2	42.8	31.5	35.3	30.8	43.0	31.5	26.1	25.4
25-29 years.....	854	921	870	69.6	67.0	63.8	23.0	23.5	24.4	7.4	9.4	11.8
First child.....	231	193	192	82.1	85.2	80.3	17.0	14.3	17.8	0.9	0.5	1.9
Second child.....	322	290	258	82.0	81.7	82.2	16.7	16.1	16.3	1.3	2.2	1.5
Third child.....	186	245	198	50.0	59.4	57.3	33.1	27.6	30.8	16.9	12.9	11.9
Fourth child.....	70	91	120	44.5	47.7	42.4	39.7	36.3	31.7	15.8	16.1	25.9
Fifth child and over.....	45	100	101	36.3	26.2	23.4	31.5	41.1	36.7	32.3	32.7	39.9
30-34 years.....	361	409	401	58.6	54.2	52.6	27.2	23.1	24.4	14.1	22.8	23.0
First child.....	71	38	34	78.1	97.3	91.2	19.7	2.7	8.8	2.2	-	-
Second child.....	97	69	76	75.8	80.1	85.6	20.5	15.9	11.6	3.8	4.0	2.7
Third child.....	74	95	82	54.8	57.3	61.9	26.5	26.8	27.9	18.6	16.0	10.2
Fourth child.....	54	79	87	31.5	47.5	38.1	45.4	25.5	33.9	23.1	26.9	28.0
Fifth child and over.....	66	127	123	39.1	28.7	25.4	31.3	28.9	27.7	29.6	42.3	46.9
35 years and over.....	168	236	256	49.9	47.8	43.9	17.2	13.3	15.7	32.9	38.9	40.4
First child.....	21	12	16	81.7	84.6	93.8	16.1	15.4	6.2	2.2	-	-
Second child.....	31	26	24	70.2	76.0	62.5	12.7	10.3	18.8	17.2	13.7	18.8
Third child.....	28	40	30	45.5	56.1	62.7	29.6	4.5	5.1	24.9	39.4	32.2
Fourth child.....	26	37	50	49.2	49.3	48.8	19.0	8.8	13.2	31.9	42.0	37.9
Fifth child and over.....	62	121	134	31.0	34.9	28.5	13.5	18.0	19.6	55.5	47.2	52.1

NOTE: Figures may not add to totals due to rounding.

Table 1. Estimated number of legitimate live births and percent distribution by wantedness status, according to age of mother, live-birth order, and color of mother: United States, 1968, 1969, and 1972 National Natality Surveys—Con.

Age of mother, live-birth order, and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
<u>White</u>	Number in thousands			Percent								
All ages .....	2,504	2,844	2,774	65.6	65.1	61.3	26.4	24.8	27.1	8.1	10.2	11.6
First child.....	920	1,033	1,015	74.9	74.1	70.3	24.1	23.6	27.0	1.1	2.3	2.8
Second child.....	848	817	757	75.2	74.5	74.8	22.7	21.8	22.3	2.0	3.7	3.0
Third child.....	390	490	427	47.8	57.2	52.4	35.8	28.5	33.0	16.4	14.3	14.6
Fourth child.....	174	232	272	39.0	47.6	41.2	39.8	27.8	31.8	21.2	24.6	27.0
Fifth child and over.....	173	272	304	35.1	32.1	28.2	22.0	28.3	26.9	42.9	39.6	44.9
Under 20 years .....	355	365	376	63.0	59.6	57.8	32.9	34.3	37.4	4.1	6.1	4.9
First child.....	222	286	303	65.5	60.7	60.7	32.9	33.9	35.2	1.6	5.4	4.2
Second child.....	83	66	54	68.8	57.4	49.2	30.1	33.7	49.2	1.1	8.7	1.7
Third child and over.....	50	12	18	42.4	46.8	35.0	37.6	46.0	39.9	20.0	6.5	25.1
Under 18 years .....	108	84	99	65.6	61.9	52.0	31.3	33.1	42.5	3.1	4.9	5.5
First child.....	71	73	90	66.2	63.1	52.6	33.1	31.2	41.3	0.7	5.7	6.0
Second child.....	24	10	*6	76.2	58.3	*42.9	23.8	41.7	*57.1	-	-	-
Third child and over.....	13	*1	*2	42.5	-	*50.0	35.6	*100.0	*50.0	21.9	-	-
18-19 years.....	247	281	277	61.9	58.9	59.8	33.6	34.6	35.6	4.6	6.4	4.6
First child.....	151	213	213	65.2	59.9	64.0	32.8	34.8	32.5	2.0	5.4	3.4
Second child.....	59	56	48	65.7	57.3	50.0	32.7	32.4	48.1	1.6	10.3	1.9
Third child and over.....	38	12	16	42.4	50.0	33.3	38.3	42.2	38.8	19.3	6.9	27.9
20-24 years.....	920	1,103	1,056	66.7	69.4	64.7	29.4	25.9	29.9	4.0	4.6	5.4
First child.....	412	522	490	74.9	75.8	70.4	24.4	22.9	27.1	0.7	1.4	2.4
Second child.....	360	394	375	69.7	70.5	71.4	28.9	25.7	25.2	1.3	3.8	3.4
Third child.....	93	128	132	37.4	51.5	38.7	50.8	36.9	45.8	11.9	11.6	15.5
Fourth child and over.....	56	59	59	34.5	44.4	32.1	33.5	31.1	46.4	32.0	24.0	20.8
20-21 years.....	314	424	427	64.4	70.0	62.5	31.2	26.9	32.7	4.4	3.1	4.8
First child.....	162	249	248	72.4	76.8	66.8	27.0	21.6	30.6	0.6	1.6	2.6
Second child.....	111	122	140	65.0	65.7	66.0	33.3	30.6	29.6	1.7	3.6	4.5
Third child.....	23	44	33	29.3	51.3	23.5	54.1	43.5	59.2	16.6	5.2	17.3
Fourth child and over.....	18	*8	*6	34.4	*27.5	*15.5	26.1	*42.5	*48.3	39.5	*27.5	*34.5
22-24 years.....	606	679	629	67.8	69.0	66.2	28.4	25.4	27.9	3.7	5.6	5.9
First child.....	250	272	242	76.6	74.9	74.2	22.7	24.0	23.6	0.8	1.1	2.2
Second child.....	249	272	234	71.9	72.7	74.7	26.9	23.5	22.6	1.2	3.8	2.7
Third child.....	70	84	99	40.0	51.5	43.7	49.7	33.4	41.4	10.3	15.1	14.9
Fourth child and over.....	37	51	53	34.5	47.0	34.0	37.1	29.3	46.2	28.4	23.4	19.3
25-29 years.....	771	822	773	70.4	69.0	65.9	22.1	23.2	23.5	7.6	7.8	10.6
First child.....	208	178	175	83.0	85.3	80.4	16.3	14.1	17.6	0.8	0.6	2.0
Second child.....	292	268	238	83.5	83.0	83.2	15.5	15.5	15.5	1.0	1.5	1.2
Third child.....	174	227	178	49.7	60.3	58.5	32.8	27.8	29.5	17.5	11.9	11.9
Fourth child.....	61	78	109	45.0	46.3	42.7	38.6	37.8	31.8	16.4	15.9	25.5
Fifth child and over.....	36	71	72	34.0	28.2	26.7	29.6	44.5	36.8	36.5	27.5	36.8
30-34 years.....	314	354	350	59.9	56.3	54.2	25.6	21.9	23.2	14.5	21.8	22.6
First child.....	60	35	30	78.6	97.1	93.1	19.5	2.9	6.9	1.9	-	-
Second child.....	86	64	67	77.6	80.6	87.6	18.1	16.1	9.3	4.2	3.2	3.1
Third child.....	68	87	76	56.6	58.3	61.1	23.8	25.9	28.4	19.7	15.8	10.5
Fourth child.....	48	71	78	31.6	47.2	38.7	46.2	23.6	31.5	22.2	29.2	29.7
Fifth child and over.....	53	98	99	39.8	30.7	26.9	28.2	27.6	26.9	32.0	41.8	46.2
35 years and over.....	144	200	219	51.4	50.8	46.0	16.0	12.1	14.7	32.6	37.1	39.2
First child.....	18	12	16	83.9	84.6	93.4	13.5	15.4	6.6	2.7	-	-
Second child.....	27	25	22	71.9	75.0	63.6	10.5	10.7	18.2	17.6	14.3	18.2
Third child.....	25	36	26	46.1	57.5	64.0	30.7	5.0	4.0	23.3	37.5	32.0
Fourth child.....	23	34	47	46.7	50.0	52.1	19.3	7.9	13.0	34.0	42.1	34.9
Fifth child and over.....	51	93	109	33.6	37.7	28.9	11.2	16.4	18.4	55.1	45.9	52.7

NOTE: Figures may not add to totals due to rounding.

Table 1. Estimated number of legitimate live births and percent distribution by wantedness status, according to age of mother, live-birth order, and color of mother: United States, 1968, 1969, and 1972 National Natality Surveys—Con.

Age of mother, live-birth order, and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
<u>All other</u>	Number in thousands			Percent								
All ages .....	335	398	402	56.9	46.3	46.1	33.7	32.6	33.4	9.5	21.2	20.5
First child.....	116	100	110	69.4	59.7	62.2	27.5	34.7	33.4	3.1	5.6	4.4
Second child.....	103	92	94	64.4	60.2	58.5	33.6	33.0	35.2	2.1	6.8	6.3
Third child.....	46	76	70	41.6	42.1	45.5	44.6	33.4	32.5	13.8	24.6	22.0
Fourth child.....	28	38	38	39.7	42.6	29.4	39.5	31.6	38.9	20.8	25.8	31.7
Fifth child and over.....	41	93	89	31.3	23.0	20.9	35.1	29.6	29.8	33.6	47.4	49.3
Under 20 years .....	64	66	81	51.8	42.0	48.5	39.9	46.8	42.4	8.3	11.1	9.1
First child.....	30	40	47	58.3	44.2	53.3	34.8	48.0	42.0	6.9	7.8	4.9
Second child and over .....	34	26	34	45.9	38.8	41.6	44.4	45.2	42.8	9.6	16.0	15.3
Under 18 years.....	17	17	23	60.2	33.5	48.0	39.8	51.2	45.6	-	15.3	6.5
First child.....	*9	14	16	*61.3	32.1	50.0	*38.7	53.6	46.4	-	14.3	3.6
Second child and over .....	*8	*3	*8	*59.0	*40.0	*44.0	*41.0	*40.0	*44.0	-	*20.0	*13.3
18-19 years.....	47	49	58	48.6	45.1	48.6	39.9	45.3	41.1	11.4	9.5	10.3
First child.....	21	25	31	57.0	51.2	55.0	33.0	44.7	39.6	10.0	4.1	5.4
Second child and over .....	26	23	26	41.9	38.6	40.9	45.5	45.9	42.4	12.6	15.5	15.9
20-24 years.....	116	143	137	61.8	51.3	50.1	31.6	34.1	32.4	6.7	14.6	17.5
First child.....	49	42	42	72.8	62.2	63.0	26.1	31.7	30.8	1.1	5.9	6.2
Second child.....	38	47	42	70.7	58.6	53.1	27.9	34.9	37.2	1.4	6.3	9.7
Third child and over .....	30	53	53	32.7	36.0	37.3	45.0	35.0	30.1	22.3	28.3	32.8
20-21 years.....	52	61	60	59.6	55.4	49.5	36.3	30.7	33.0	4.1	13.9	17.5
First child.....	24	24	25	68.9	67.4	60.4	28.9	26.1	29.2	2.2	6.5	10.4
Second child.....	19	22	19	66.7	60.5	47.2	30.5	32.5	36.1	2.8	7.0	16.7
Third child and over .....	*9	15	16	*21.9	29.6	35.6	*66.7	34.9	35.6	*11.3	34.9	29.4
22-24 years.....	64	82	77	63.5	48.1	50.5	27.7	36.7	32.0	8.8	15.2	17.5
First child.....	25	19	17	76.5	55.6	66.7	23.5	38.9	33.3	-	5.6	-
Second child.....	19	25	23	74.8	57.0	57.9	25.2	36.8	37.8	-	6.1	4.3
Third child and over .....	21	38	36	37.6	38.5	38.1	35.1	35.1	27.7	27.4	25.7	34.2
25-29 years.....	82	99	97	62.1	50.6	46.9	32.0	26.3	31.9	5.8	23.1	21.1
First child.....	23	15	17	73.8	83.9	80.0	23.8	16.1	20.0	2.4	-	-
Second child.....	30	23	20	67.2	65.9	70.4	29.2	23.5	25.4	3.6	10.7	4.2
Third child.....	13	18	20	54.1	48.8	46.5	37.6	25.5	41.9	8.3	25.7	11.6
Fourth child and over .....	17	43	40	43.9	31.7	21.7	43.6	31.5	35.2	12.5	36.6	43.1
30-34 years.....	47	55	50	50.5	40.5	40.9	38.2	30.7	33.1	11.3	28.7	25.9
First child.....	11	*4	*4	75.2	*100.0	*75.0	20.8	-	*25.0	4.0	-	-
Second child.....	11	*6	*9	61.4	*75.0	*71.4	38.6	*12.5	*28.6	-	*12.5	-
Third child.....	*6	*8	*6	*35.7	*45.5	*71.4	*57.1	*36.4	*21.4	*7.1	*18.2	*7.1
Fourth child and over .....	19	38	32	34.7	28.6	22.2	42.0	35.2	37.7	23.3	36.0	40.2
35 years and over.....	24	35	36	41.3	30.8	31.4	23.9	20.0	21.4	34.8	49.2	47.1
First child.....	*4	-	*1	*71.4	-	*100.0	*28.6	-	-	-	-	-
Second child.....	*4	*1	*2	*57.1	*100.0	*50.0	*28.6	-	*25.0	*14.3	-	*25.0
Third child.....	*3	*4	*5	*40.0	*42.9	*55.6	*20.0	-	*11.1	*40.0	*57.1	*33.3
Fourth child and over.....	14	30	29	29.6	26.6	23.7	22.2	23.0	23.7	48.1	49.8	52.6

NOTE: Figures may not add to totals due to rounding.



Table 2. Estimated number of legitimate live births and percent distribution by wantedness status, according to number of additional births expected, live-birth order, and color of mother United States, 1968, 1969, and 1972 National Natality Surveys

Number of additional births expected, live-birth order, and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
<b>TOTAL</b>	Number in thousands			Percent								
All orders .....	2,839	3,242	3,176	64.5	62.8	59.4	27.2	25.7	27.9	8.2	11.5	12.7
No additional births expected .....	1,354	1,477	1,347	56.3	53.9	48.9	28.4	25.0	26.2	15.2	21.1	24.9
Additional births expected .....	1,486	1,765	1,829	72.0	70.3	67.1	26.2	26.3	29.1	1.8	3.6	3.8
One birth .....	906	964	872	70.6	70.1	65.5	27.1	26.0	29.4	2.3	3.9	5.2
Two births .....	422	514	604	74.0	71.0	68.3	25.3	26.2	29.4	0.7	2.7	2.3
Three births .....	100	190	234	75.5	70.4	68.9	22.9	25.0	28.1	1.6	4.5	2.9
Four births or more .....	57	97	119	72.8	67.7	69.2	23.5	31.4	27.5	3.7	1.0	3.3
First child .....	1,036	1,133	1,125	74.3	72.8	69.5	24.4	24.6	27.6	1.3	2.6	2.9
No additional births expected .....	138	115	106	69.3	68.1	63.1	26.7	27.4	28.5	4.1	4.5	8.4
Additional births expected .....	898	1,018	1,020	75.0	73.3	70.1	24.1	24.3	27.5	0.9	2.4	2.4
One birth .....	516	479	368	74.2	74.7	71.1	24.7	23.5	26.1	1.1	1.8	2.8
Two births .....	278	325	371	76.5	71.9	68.6	23.3	25.4	29.8	0.2	2.7	1.6
Three births .....	73	159	197	75.4	71.3	70.8	23.9	24.5	26.5	0.7	4.2	2.7
Four births or more .....	31	56	83	75.5	76.0	71.1	20.8	24.0	26.1	3.7	-	2.8
Second child .....	951	909	851	74.1	73.0	72.9	23.9	22.9	23.7	2.0	4.0	3.4
No additional births expected .....	539	467	378	74.9	72.2	74.1	21.9	22.1	20.1	3.1	5.7	5.8
Additional births expected .....	412	441	473	72.9	73.9	72.0	26.5	23.8	26.6	0.6	2.2	1.4
One birth .....	260	264	275	70.3	74.2	70.7	28.9	24.0	28.0	0.8	1.8	1.3
Two births .....	113	136	156	77.0	75.5	74.3	23.0	22.0	24.1	-	2.5	1.6
Three births .....	20	19	22	80.7	63.4	73.8	19.3	27.3	23.8	-	9.4	2.4
Four births or more .....	19	21	21	76.9	69.7	71.2	20.7	30.3	28.8	2.5	-	-
Third child .....	435	566	497	47.1	55.1	51.5	36.7	29.2	32.9	16.1	15.7	15.6
No additional births expected .....	334	396	320	44.5	50.8	50.8	37.1	29.2	29.8	18.5	20.0	19.4
Additional births expected .....	101	170	177	56.0	65.3	52.7	35.6	29.0	38.5	8.4	5.7	8.8
One birth .....	76	131	127	59.4	64.8	54.3	32.8	29.3	36.0	7.8	5.9	9.7
Two births .....	17	22	38	40.7	66.8	52.5	47.4	29.1	42.5	11.9	4.1	5.0
Three births or more .....	*8	16	12	*56.2	67.1	35.3	*37.7	26.2	52.1	*6.1	5.5	11.8
Fourth child and over .....	417	635	703	36.7	37.0	32.4	31.9	28.5	29.8	31.4	34.4	37.8
No additional births expected .....	343	499	544	33.4	35.8	27.5	31.0	23.9	27.9	35.6	40.3	44.6
Additional births expected .....	74	136	159	51.7	41.5	49.0	36.4	45.4	36.3	11.8	13.0	14.6
One birth .....	53	90	102	53.8	41.2	44.8	32.8	40.3	36.6	13.5	18.5	18.6
Two births or more .....	21	46	58	46.5	42.3	56.3	45.9	55.3	35.8	7.7	2.2	7.8
<b>White</b>												
All orders .....	2,504	2,844	2,774	65.6	65.1	61.3	26.4	24.8	27.1	8.1	10.2	11.6
No additional births expected .....	1,197	1,274	1,157	57.4	56.4	51.6	27.5	24.4	25.1	15.1	19.2	23.3
Additional births expected .....	1,307	1,570	1,617	73.1	72.2	68.2	25.3	25.0	28.5	1.6	2.8	3.3
One birth .....	795	847	749	71.4	72.2	66.9	26.6	24.8	28.6	2.0	2.9	4.5
Two births .....	375	466	546	75.4	72.1	69.6	23.9	25.3	28.4	0.7	2.6	2.0
Three births .....	87	171	214	77.9	71.7	69.1	21.5	24.2	28.2	0.6	4.1	2.7
Four births or more .....	49	86	108	72.9	72.5	69.4	22.9	27.5	27.8	4.2	-	2.7
First child .....	920	1,033	1,015	74.9	74.1	70.3	24.1	23.6	27.0	1.1	2.3	2.8
No additional births expected .....	109	99	95	72.2	70.2	64.4	25.1	26.7	26.2	2.7	3.1	9.3
Additional births expected .....	811	934	920	75.2	74.5	70.9	23.9	23.3	27.0	.8	2.2	2.1
One birth .....	468	439	320	73.6	75.5	71.7	25.4	22.9	25.8	1.0	1.6	2.4
Two births .....	252	300	343	77.3	72.4	69.9	22.5	24.8	28.7	0.2	2.7	1.4
Three births .....	64	144	180	78.6	73.0	70.8	20.6	23.4	26.5	0.8	3.6	2.7
Four births or more .....	26	51	77	76.8	81.9	71.6	18.9	18.1	26.0	4.3	-	2.4
Second child .....	848	817	757	75.2	74.5	74.8	22.7	21.8	22.3	2.0	3.7	3.0
No additional births expected .....	497	427	341	75.7	73.3	76.3	21.2	21.5	18.6	3.1	5.2	5.1
Additional births expected .....	352	390	416	74.6	75.8	73.5	24.8	22.2	25.2	0.6	2.1	1.3
One birth .....	218	232	238	72.3	75.8	72.3	27.0	22.8	26.3	0.7	1.4	1.3
Two births .....	98	123	137	79.0	77.1	75.1	21.0	20.5	23.3	-	2.4	1.6
Three births .....	18	18	21	77.8	64.0	75.6	22.2	26.1	24.4	-	9.9	-
Four births or more .....	18	17	19	75.5	78.4	74.2	21.9	21.6	25.8	2.6	-	-

NOTE: Figures may not add to totals due to rounding.

Table 2. Estimated number of legitimate live births and percent distribution by wantedness status, according to number of additional births expected, live-birth order, and color of mother: United States, 1968, 1969, and 1972 National Natality Surveys—Con.

Number of additional births expected, live-birth order, and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
	Number in thousands			Percent								
Third child.....	390	490	427	47.8	57.2	52.4	35.8	28.5	33.0	16.4	14.3	14.6
No additional births expected .....	300	347	279	44.7	52.4	52.0	36.0	28.7	29.9	19.2	18.9	18.1
Additional births expected.....	90	143	148	58.0	68.8	53.3	35.0	28.1	38.7	7.0	3.0	8.0
One birth .....	69	110	106	60.9	69.0	54.8	32.8	27.0	36.8	6.3	3.9	8.4
Two births .....	14	19	32	44.4	68.4	55.1	45.1	31.6	38.9	10.4	-	6.0
Three births or more.....	*7	14	10	*57.3	67.6	30.2	*35.7	31.6	59.4	*7.0	-	9.4
Fourth child and over .....	347	504	576	37.1	39.2	34.4	30.9	28.1	29.2	32.0	32.7	36.4
No additional births expected .....	292	401	442	33.6	38.5	29.5	30.4	23.2	26.9	35.9	38.3	43.6
Additional births expected.....	55	103	134	55.3	42.2	50.5	33.6	47.1	36.8	11.1	10.8	12.5
One birth .....	41	66	84	59.1	43.4	48.1	27.2	41.4	35.4	13.7	15.2	16.5
Two births or more.....	14	37	50	44.6	39.8	54.4	51.9	57.5	39.2	3.5	2.7	6.0
<u>All other</u>												
All orders .....	335	398	402	56.9	46.3	46.1	33.7	32.6	33.4	9.5	21.2	20.5
No additional births expected .....	156	203	190	48.3	37.9	32.6	35.4	29.2	32.8	16.3	32.9	34.6
Additional births expected.....	179	195	212	64.3	55.0	58.2	32.1	36.1	33.9	3.5	8.9	7.9
One birth .....	111	117	123	64.9	54.5	56.8	30.9	34.4	33.8	4.3	11.1	9.4
Two births .....	47	48	58	63.0	60.3	56.5	35.8	35.7	38.3	1.1	4.0	5.2
Three births .....	13	19	20	59.6	59.1	67.2	32.2	32.6	27.4	8.2	8.3	5.4
Four births or more.....	*7	12	11	*72.7	31.4	66.8	*27.3	60.5	*24.1	-	8.2	9.1
First child.....	116	100	110	69.4	59.7	62.2	27.5	34.7	33.4	3.1	5.6	4.4
No additional births expected .....	29	16	11	58.1	55.2	51.6	32.7	32.0	48.4	9.2	12.8	-
Additional births expected.....	88	84	100	73.1	60.5	63.3	25.8	35.2	31.8	1.1	4.2	4.9
One birth .....	49	40	48	79.6	65.5	67.0	18.5	30.7	27.5	2.0	3.9	5.6
Two births .....	25	25	28	68.9	65.1	52.7	31.1	32.8	43.5	-	2.1	3.8
Three births .....	*9	15	17	*52.3	54.8	70.6	*47.7	34.6	26.1	-	10.5	3.3
Four births or more.....	*5	*5	*6	*68.8	*11.2	*63.5	*31.2	*88.8	*27.7	-	-	*8.8
Second child.....	103	92	94	64.4	60.2	58.5	33.6	33.0	35.2	2.1	6.8	6.3
No additional births expected .....	43	40	37	65.9	60.9	53.9	30.3	28.5	33.8	3.8	10.5	12.3
Additional births expected.....	61	51	58	63.3	59.6	61.5	35.8	36.3	36.1	.9	3.9	2.4
One birth .....	42	33	36	59.9	62.9	59.6	38.8	32.6	39.0	1.3	4.5	1.4
Two births .....	15	13	20	63.9	60.0	68.6	36.1	36.2	29.2	-	3.8	2.2
Three births or more.....	*4	*6	*2	*100.0	*40.4	*25.0	-	*57.9	*50.0	-	-	*25.0
Third child.....	46	76	70	41.6	42.1	45.5	44.6	33.4	32.5	13.8	24.6	22.0
No additional births expected .....	34	49	40	42.0	39.5	42.2	46.0	33.1	29.2	12.1	27.4	28.6
Additional births expected.....	11	27	30	40.5	46.3	50.2	40.6	33.7	37.3	18.9	19.3	13.2
One birth .....	*8	21	21	*46.1	42.5	52.0	*32.9	41.2	31.9	*21.0	16.4	16.1
Two births .....	*3	*3	*6	*20.2	*57.7	*39.1	*59.7	*14.1	*60.9	*20.1	*28.2	-
Three births or more.....	*1	*3	*2	*49.0	*64.3	*62.5	*51.0	-	*20.8	-	*32.1	*20.8
Fourth child and over .....	70	130	127	34.8	28.6	23.4	36.9	30.2	32.5	28.4	41.2	44.1
No additional births expected .....	51	98	102	32.3	24.9	19.2	34.0	27.0	32.3	33.7	48.1	48.6
Additional births expected.....	19	32	25	41.4	39.6	40.9	44.5	39.9	33.7	14.1	20.1	25.8
One birth .....	13	23	18	36.6	34.9	29.0	50.7	37.3	42.5	12.7	27.8	28.4
Two births or more.....	*6	*9	*8	*50.8	*52.8	*68.4	*32.2	*47.2	*13.2	*17.0	-	*19.7

NOTE: Figures may not add to totals due to rounding.

Table 3. Estimated number of legitimate live births and percent distribution by wantedness status, according to age at marriage and color of mother: United States, 1968, 1969, and 1972 National Natality Surveys

Age at marriage and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
	Number in thousands			Percent								
Total .....	2,839	3,242	3,176	64.5	62.8	59.4	27.2	25.7	27.9	8.2	11.5	12.7
Under 18 years.....	560	760	792	57.0	58.0	51.3	33.4	25.5	30.5	9.6	16.6	18.2
18 years.....	462	497	464	61.5	59.9	58.3	29.6	28.5	31.4	9.0	11.6	10.2
19-20 years.....	824	924	892	65.3	64.4	60.2	26.2	25.2	27.4	8.5	10.4	12.4
21-22 years.....	544	585	555	69.9	64.4	64.0	24.0	27.6	25.6	6.1	8.0	10.4
23-24 years.....	250	260	246	66.5	69.0	64.7	26.8	21.3	26.4	6.7	9.7	8.9
25-29 years.....	161	184	176	74.3	66.6	67.3	18.0	23.6	21.9	7.7	9.8	10.8
30 years and over .....	38	32	51	63.2	74.7	75.4	19.2	16.2	15.5	17.6	9.1	9.1
White.....	2,504	2,844	2,774	65.6	65.1	61.3	26.4	24.8	27.1	8.1	10.2	11.6
Under 18 years.....	493	647	661	58.6	62.2	53.9	32.5	23.6	29.1	8.9	14.2	17.0
18 years.....	405	437	410	62.8	62.0	59.7	28.3	27.4	31.1	8.9	10.6	9.2
19-20 years.....	733	828	795	65.5	66.3	62.4	26.1	24.1	26.7	8.4	9.6	10.9
21-22 years.....	486	526	497	71.3	65.9	64.9	22.8	27.1	25.2	5.9	7.1	10.0
23-24 years.....	219	224	223	66.2	70.8	65.3	26.6	21.6	25.8	7.2	7.6	8.9
25-29 years.....	138	157	149	77.2	66.1	69.5	14.9	23.9	20.8	7.9	10.0	9.7
30 years and over .....	31	26	40	66.9	78.4	79.9	16.1	14.7	15.1	17.0	6.8	5.0
All other .....	335	398	402	56.9	46.3	46.1	33.7	32.6	33.4	9.5	21.2	20.5
Under 18 years.....	67	113	131	45.2	33.6	38.1	40.4	36.0	37.7	14.4	30.4	24.1
18 years.....	57	60	55	52.1	44.4	48.0	38.6	36.1	34.2	9.3	19.4	17.8
19-20 years.....	91	96	96	63.9	47.8	42.2	26.6	34.9	33.2	9.5	17.3	24.6
21-22 years.....	58	59	58	58.7	51.0	56.8	34.2	32.4	29.4	7.2	16.6	13.8
23-24 years.....	31	37	24	68.7	58.0	59.8	28.2	19.6	32.0	3.1	22.4	8.2
25-29 years.....	24	28	27	57.4	69.1	55.1	35.7	21.9	27.9	6.9	9.0	16.9
30 years and over .....	*7	*5	11	*47.2	*56.5	58.9	*32.4	*23.2	17.0	*20.4	*20.2	24.2

NOTE: Figures may not add to totals due to rounding.

Table 4. Estimated number of legitimate live births to women married once and percent distribution by wantedness status, according to color of mother, live-birth order, and duration of marriage: United States, 1972 National Natality Survey

Live-birth order and duration of marriage	Total				White				All other			
	Legitimate live births in thousands	Wanted then	Wanted later	Un-wanted	Legitimate live births in thousands	Wanted then	Wanted later	Un-wanted	Legitimate live births in thousands	Wanted then	Wanted later	Un-wanted
		Percent distribution				Percent distribution				Percent distribution		
All orders .....	2,602	65.3	27.1	7.5	2,290	66.4	26.2	7.4	311	57.4	34.0	8.7
0-11 months .....	363	50.9	47.8	1.3	31.0	51.7	47.0	1.3	53	46.5	52.5	1.0
12-23 months .....	297	70.8	27.5	1.7	255	73.8	25.4	0.8	42	53.0	39.7	7.3
24-35 months .....	308	72.3	25.4	2.3	273	72.8	25.0	2.2	35	68.3	28.6	3.1
36-47 months .....	302	78.1	20.4	1.5	272	78.7	19.9	1.4	31	73.0	25.2	1.7
48-107 months .....	920	69.5	23.5	7.0	818	70.5	22.8	6.7	102	61.5	28.9	9.7
108-167 months .....	278	54.8	25.5	19.8	247	55.1	24.6	20.2	31	51.9	32.1	16.0
168 months and over .....	133	40.3	18.3	41.4	116	40.8	17.7	41.5	17	37.0	22.3	40.7
First child .....	1,001	74.3	24.5	1.3	887	74.8	24.1	1.1	114	69.8	27.6	2.7
0-11 months .....	325	50.5	48.3	1.2	283	50.8	47.9	1.2	42	48.1	50.7	1.2
12-23 months .....	223	80.7	18.6	0.7	198	81.1	18.7	0.3	25	77.5	18.3	4.2
24-35 months .....	167	84.0	13.2	2.8	154	84.4	12.9	2.7	13	79.1	16.8	4.1
36-47 months .....	114	91.7	8.3	-	102	92.3	7.7	-	12	86.7	13.3	-
48-107 months .....	156	89.4	9.0	1.6	135	89.7	9.2	1.1	21	87.6	7.7	4.7
108-167 months .....	13	96.2	3.8	-	13	96.0	4.0	-	*1	*100.0	-	-
168 months and over .....	*3	*84.4	*15.6	-	*2	*81.0	*19.0	-	-	-	-	-
Second child .....	876	74.6	23.9	1.5	777	76.0	22.5	1.5	99	63.5	34.4	2.2
0-11 months .....	27	50.8	49.2	-	20	56.5	43.5	-	*8	*35.8	*64.2	-
12-23 months .....	66	43.3	53.7	3.0	53	49.4	47.9	2.7	13	19.3	76.7	4.0
24-35 months .....	128	60.0	38.9	1.2	109	59.1	40.0	0.9	20	64.7	32.6	2.8
36-47 months .....	153	76.2	22.8	1.0	139	76.5	22.8	0.7	13	73.3	22.7	4.0
48-107 months .....	443	82.9	16.1	1.0	403	83.7	15.3	1.0	40	74.8	23.9	1.3
108-167 months .....	46	87.8	7.8	4.4	41	86.4	8.7	4.9	*5	*100.0	-	-
168 months and over .....	12	79.9	4.1	16.0	12	79.0	4.3	16.7	-	-	-	-
Third child .....	387	45.6	37.6	16.9	346	46.4	36.5	17.1	42	38.2	46.6	15.2
0-23 months .....	11	38.7	51.6	9.8	16	45.0	51.9	3.2	*8	*26.1	*66.5	*7.3
24-35 months .....	10	43.8	56.2	-								
36-47 months .....	29	40.6	49.3	10.0								
48-107 months .....	230	44.6	40.2	15.1								
108-167 months .....	89	49.4	29.4	21.2								
168 months and over .....	17	51.3	5.7	43.1	14	44.5	6.9	48.6	*9	*53.0	*29.8	*17.2
Fourth child .....	169	39.8	40.1	20.2	143	39.5	40.5	20.0	25	41.1	37.7	21.2
0-47 months .....	*7	*24.5	*60.6	*14.9	*2	*20.7	*79.3	-	*4	*26.8	*49.3	*23.8
48-107 months .....	68	37.6	43.6	18.9	56	37.0	45.6	17.4	12	40.1	33.9	26.0
108-167 months .....	71	42.1	37.6	20.3	62	41.3	37.9	20.8	10	48.1	37.4	14.4
168 months and over .....	24	43.3	31.8	24.9	23	43.0	30.9	26.0				
Fifth child and over .....	169	35.4	23.0	41.6	138	36.3	20.1	43.6	31	31.2	36.2	32.6
0-47 months .....	10	73.7	16.2	10.1	*7	*75.9	*9.3	*14.8	*7	*36.1	*49.4	*14.5
48-107 months .....	23	20.6	36.7	42.7	19	22.5	30.7	46.7				
108-167 months .....	59	43.2	23.6	33.2	48	43.7	20.4	35.9				
168 months and over .....	77	28.9	19.4	51.7	65	30.8	17.9	51.3				

NOTE: Figures may not add to totals due to rounding.

Table 5. Estimated number of legitimate live births and percent distribution by wantedness status, according to educational attainment of father and color of mother: United States, 1968, 1969, and 1972 National Natality Surveys

Years of school completed by father and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
	Number in thousands			Percent								
Total .....	2,839	3,242	3,176	64.5	62.8	59.4	27.2	25.7	27.9	8.2	11.5	12.7
0-8 years.....	183	346	397	53.6	50.6	50.5	30.5	29.7	30.9	15.9	19.7	18.7
9-11 years.....	405	584	626	55.7	56.5	50.9	33.3	27.9	31.2	11.0	15.7	17.8
12 years.....	1,188	1,224	1,196	64.4	65.2	61.6	27.5	24.1	27.7	8.0	10.6	10.7
13-15 years.....	469	480	501	67.4	61.5	62.4	28.1	28.6	30.0	4.6	9.9	7.6
16 years and over .....	595	608	456	71.9	71.8	69.6	20.9	22.3	18.8	7.2	5.9	11.6
White.....	2,504	2,844	2,774	65.6	65.1	61.3	26.4	24.8	27.1	8.1	10.2	11.6
0-8 years.....	138	272	320	54.6	54.7	54.7	29.0	29.5	30.0	16.4	15.7	15.3
9-11 years.....	349	474	518	57.6	59.3	52.4	31.8	25.9	31.0	10.6	14.9	16.6
12 years.....	1,036	1,080	1,055	65.4	67.4	63.6	26.7	23.0	26.5	7.9	9.6	9.9
13-15 years.....	430	440	448	67.5	63.2	63.1	28.1	27.9	29.6	4.4	8.9	7.4
16 years and over .....	551	579	432	72.2	71.9	69.4	20.3	22.4	19.1	7.5	5.7	11.5
All other .....	335	398	402	56.9	46.3	46.1	33.7	32.6	33.4	9.5	21.2	20.5
0-8 years.....	45	74	77	50.5	35.5	32.8	35.3	30.1	34.6	14.2	34.3	32.6
9-11 years.....	55	110	108	43.9	44.5	43.7	42.6	36.4	32.4	13.5	19.1	23.9
12 years.....	152	144	141	57.7	49.3	46.7	33.1	32.4	36.6	9.2	18.3	16.7
13-15 years.....	39	40	52	66.3	43.6	56.9	27.4	35.4	33.9	6.3	21.0	9.2
16 years and over .....	44	29	24	68.3	69.6	73.3	28.2	20.4	14.0	3.5	9.3	12.7

NOTE: Figures may not add to totals due to rounding.

Table 6. Estimated number of legitimate live births and percent distribution by wantedness status, according to educational attainment of mother, live-birth order, and color of mother: United States, 1968, 1969, and 1972 National Natality Surveys

Years of school completed by mother, live-birth order, and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
<b>Total</b>	Number in thousands			Percent								
All orders .....	2,839	3,242	3,176	64.5	62.8	59.4	27.2	25.7	27.9	8.2	11.5	12.7
0-8 years.....	124	298	287	63.7	55.4	45.6	23.2	26.5	33.9	13.0	18.1	20.6
9-11 years.....	481	716	725	55.2	56.1	53.0	33.6	27.0	29.0	11.2	16.9	18.0
12 years.....	1,355	1,421	1,434	65.5	63.7	62.0	27.2	26.0	28.0	7.4	10.3	10.0
13-15 years.....	543	483	452	64.2	67.8	62.5	26.5	26.3	25.5	9.3	5.9	12.0
16 years and over .....	336	324	278	74.9	72.9	71.4	21.2	20.1	22.1	4.0	7.1	6.5
First and second child.....	1,987	2,042	1,976	74.2	72.9	71.0	24.2	23.9	25.9	1.6	3.2	3.1
0-8 years.....	65	127	115	76.7	71.0	62.6	20.9	23.5	31.7	2.4	5.4	5.7
9-11 years.....	297	368	391	65.1	66.5	65.0	32.5	26.2	29.0	2.4	7.3	6.0
12 years.....	994	955	932	72.8	73.0	73.3	25.6	24.6	24.9	1.7	2.4	1.8
13-15 years.....	357	350	336	79.8	73.9	69.3	18.7	24.5	26.5	1.6	1.6	4.2
16 years and over .....	274	242	203	81.3	81.7	79.3	18.0	16.6	20.2	0.7	1.7	0.5
Third and fourth child.....	638	835	806	44.6	52.5	47.0	37.7	28.9	32.8	17.7	18.6	20.2
0-8 years.....	35	78	85	56.6	52.9	42.3	29.3	29.7	38.4	14.2	17.3	19.1
9-11 years.....	117	234	217	42.7	53.2	45.9	37.7	27.0	30.6	19.6	19.7	23.6
12 years.....	280	346	366	48.8	50.7	46.4	33.9	29.1	34.6	17.3	20.2	19.0
13-15 years.....	152	109	77	35.3	57.8	51.1	46.3	29.6	24.8	18.4	12.6	24.1
16 years and over .....	53	70	60	45.6	50.0	55.7	38.5	32.4	32.5	16.0	17.5	11.9
Fifth child and over.....	214	365	393	34.4	29.8	26.6	24.5	28.7	27.6	41.1	41.6	45.9
0-8 years.....	24	93	87	38.8	36.2	26.5	20.8	27.6	31.9	40.4	36.0	41.6
9-11 years.....	67	115	117	33.2	23.4	26.2	31.3	29.4	26.4	35.5	42.2	47.4
12 years.....	81	121	136	34.1	27.2	27.1	23.1	28.2	30.8	42.9	44.6	42.1
13-15 years.....	34	24	38	30.0	23.8	25.2	19.4	36.6	17.9	50.5	39.5	56.8
16 years and over .....	*9	13	15	*51.0	29.6	28.5	*16.7	18.5	6.6	*32.3	51.9	64.9
<b>White</b>												
All orders .....	2,504	2,844	2,774	65.6	65.1	61.3	26.4	24.8	27.1	8.1	10.2	11.6
0-8 years.....	104	247	237	67.2	58.0	48.7	20.9	27.1	33.4	11.9	14.8	17.9
9-11 years.....	400	590	582	57.7	60.6	56.0	32.4	24.8	27.6	9.9	14.6	16.5
12 years.....	1,223	1,269	1,291	66.1	65.1	63.4	26.4	25.2	27.3	7.6	9.7	9.3
13-15 years.....	473	436	410	64.2	69.1	63.4	26.2	25.3	24.7	9.6	5.6	12.0
16 years and over .....	304	302	255	75.4	73.8	70.9	20.5	20.1	22.7	4.0	6.0	6.3
First and second child.....	1,768	1,850	1,772	75.1	74.2	72.2	23.4	22.8	25.0	1.5	2.9	2.9
0-8 years.....	56	115	102	79.5	71.6	64.7	19.6	23.4	29.3	0.9	4.9	6.0
9-11 years.....	255	328	340	67.1	69.0	66.6	31.1	24.1	27.9	1.8	6.9	5.6
12 years.....	898	864	839	73.4	74.2	74.6	24.9	23.6	23.9	1.7	2.2	1.5
13-15 years.....	308	318	306	79.9	75.3	70.4	18.4	23.4	25.7	1.7	1.3	3.9
16 years and over .....	251	226	185	82.0	81.7	78.7	17.2	16.9	20.7	0.8	1.3	0.6
Third and fourth child.....	564	722	699	45.1	54.1	48.1	37.0	28.3	32.5	17.9	17.6	19.4
0-8 years.....	32	66	72	57.2	53.5	43.6	28.8	31.6	40.2	13.9	14.6	16.1
9-11 years.....	98	188	167	44.1	56.3	46.6	37.1	25.1	29.6	18.8	18.6	23.8
12 years.....	254	305	334	48.9	51.7	47.6	33.1	28.4	34.2	18.0	19.9	18.2
13-15 years.....	135	99	69	35.9	58.1	51.9	45.5	29.4	23.1	18.6	12.4	25.0
16 years and over .....	46	64	57	44.8	53.4	55.3	39.1	31.9	32.7	16.1	14.8	11.0
Fifth child and over.....	173	272	304	35.1	32.1	28.3	22.0	28.3	26.9	42.9	39.6	44.8
0-8 years.....	17	66	63	45.3	38.6	29.0	10.2	29.0	32.1	44.5	32.2	38.9
9-11 years.....	47	74	75	34.6	34.3	28.6	29.6	27.1	22.0	35.8	38.6	49.4
12 years.....	71	100	118	34.1	27.5	29.1	21.0	28.7	32.0	44.9	43.9	38.9
13-15 years.....	30	19	35	30.2	23.7	24.5	20.1	35.3	18.0	49.7	41.0	57.5
16 years and over .....	*8	11	13	*44.3	33.3	25.0	*19.0	16.7	7.7	*36.8	50.0	67.3

NOTE: Figures may not add to totals due to rounding.

Table 6. Estimated number of legitimate live births and percent distribution by wantedness status, according to educational attainment of mother, live-birth order, and color of mother: United States, 1968, 1969, and 1972 National Natality Surveys—Con.

Years of school completed by mother, live-birth order, and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
<b>All other</b>	Number in thousands			Percent								
All orders .....	335	398	402	56.9	46.3	46.1	33.7	32.6	33.4	9.5	21.2	20.5
0-8 years.....	20	50	51	45.6	42.6	30.8	35.5	23.1	36.0	18.9	34.3	33.0
9-11 years.....	81	127	143	42.8	35.1	41.0	39.6	37.2	34.9	17.6	27.7	24.1
12 years.....	132	152	143	60.2	51.9	49.6	34.3	33.0	33.7	5.5	15.1	16.7
13-15 years.....	70	46	41	64.2	55.5	53.5	28.0	34.9	34.1	7.8	9.5	12.4
16 years and over .....	32	23	24	69.3	59.6	76.2	27.4	20.2	15.7	3.3	20.2	8.5
First and second child.....	219	192	205	67.0	60.0	60.5	30.3	33.9	34.2	2.6	6.2	5.3
0-8 years.....	*9	12	14	*60.6	64.7	46.3	*28.3	25.2	50.0	*11.1	10.1	3.7
9-11 years.....	41	40	51	52.3	46.4	54.5	41.3	43.5	36.5	6.4	10.1	9.0
12 years.....	96	91	93	66.4	61.4	61.8	31.9	34.2	34.3	1.7	4.4	3.9
13-15 years.....	49	32	30	78.8	60.2	58.2	20.3	35.0	34.6	0.9	4.8	7.2
16 years and over .....	24	16	18	73.5	81.4	84.9	26.5	12.4	15.1	-	6.2	-
Third and fourth child.....	74	113	107	40.9	42.2	39.8	42.7	32.8	34.8	16.5	25.0	25.4
0-8 years.....	*3	12	13	*49.9	49.2	35.6	*33.5	18.6	29.5	*16.6	32.2	35.6
9-11 years.....	20	46	50	36.1	40.7	43.3	40.3	35.0	33.9	23.7	24.3	22.8
12 years.....	27	40	32	47.8	43.4	34.4	41.2	33.8	38.0	11.0	22.8	27.6
13 years and over .....	24	15	12	36.1	37.6	44.4	47.4	34.2	35.9	16.5	27.5	19.7
Fifth child and over .....	41	93	89	31.3	23.0	20.9	35.1	29.6	29.8	33.6	47.4	49.3
0-8 years.....	*7	26	24	*23.2	29.9	19.6	*46.2	24.2	31.7	*30.6	45.8	48.8
9-11 years.....	20	40	42	29.9	17.4	21.9	35.3	33.6	34.3	34.9	49.0	43.9
12 years.....	10	20	18	33.7	26.1	14.5	38.5	25.8	23.0	27.9	48.1	62.4
13 years and over .....	*5	*6	*5	*44.9	*18.6	*39.6	*11.1	*40.7	*11.3	*44.0	*42.4	*49.1

NOTE: Figures may not add to totals due to rounding.

Table 7. Estimated number of legitimate live births and percent distribution by wantedness status, according to husband's income and color of mother: United States, 1968, 1969, and 1972 National Natality Surveys

Husband's income and color of mother	Legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
	Number in thousands			Percent								
Total .....	2,839	3,242	3,176	64.5	62.8	59.4	27.2	25.7	27.9	8.2	11.5	12.7
Under \$2,000 .....	195	308	313	52.4	51.2	57.4	38.2	34.1	31.2	9.4	14.7	11.5
\$2,000-\$3,999 .....	241	467	570	58.8	56.8	52.8	35.7	32.5	34.5	5.5	10.7	12.7
\$4,000-\$6,999 .....	651	1,031	1,160	60.8	63.2	58.0	32.4	26.3	30.1	6.8	10.6	11.9
\$7,000-\$9,999 .....	773	837	732	65.5	68.1	64.0	26.1	21.9	22.7	8.4	9.9	13.3
\$10,000-\$14,999 .....	729	456	292	69.5	65.9	66.8	21.3	21.6	18.4	9.2	12.5	14.8
\$15,000 and over .....	250	143	109	71.6	63.4	63.6	17.8	16.6	19.8	10.5	20.0	16.7
White .....	2,504	2,844	2,774	65.6	65.1	61.3	26.4	24.8	27.1	8.1	10.2	11.6
Under \$2,000 .....	131	223	219	56.6	54.2	60.3	36.5	34.5	32.0	6.9	11.3	7.7
\$2,000-\$3,999 .....	196	370	449	58.1	59.4	56.1	37.1	32.3	33.3	4.9	8.3	10.6
\$4,000-\$6,999 .....	557	898	1,025	61.8	66.1	59.9	31.7	24.7	29.7	6.4	9.2	10.4
\$7,000-\$9,999 .....	702	778	697	66.0	69.2	64.4	25.6	21.4	22.4	8.3	9.3	13.2
\$10,000-\$14,999 .....	675	437	227	69.6	66.6	66.6	21.0	21.8	18.0	9.3	11.6	15.4
\$15,000 and over .....	242	138	107	72.3	63.6	63.6	17.0	16.8	19.8	10.7	19.6	16.6
All other .....	335	398	402	56.9	46.3	46.1	33.7	32.6	33.4	9.5	21.2	20.5
Under \$2,000 .....	64	85	94	43.8	43.5	50.5	41.5	33.0	29.2	14.7	23.5	20.3
\$2,000-\$3,999 .....	44	96	121	62.0	46.8	40.5	29.7	33.2	39.2	8.2	20.0	20.3
\$4,000-\$6,999 .....	94	134	135	54.6	43.5	43.2	36.5	36.7	33.0	8.9	19.8	23.8
\$7,000-\$9,999 .....	71	60	35	60.7	53.9	54.2	30.5	28.1	29.9	8.8	18.0	15.9
\$10,000-\$14,999 .....	54	18	15	67.8	49.3	69.5	25.3	17.4	26.7	6.9	33.3	3.8
\$15,000 and over .....	*8	*5	*2	*51.3	*55.9	*61.2	*43.3	*10.3	*20.0	*5.4	*33.8	*18.8

NOTE: Figures may not add to totals due to rounding.



Table 8. Estimated number of legitimate live births to women married once and percent distribution by wantedness status, according to color of mother, duration of marriage, and husband's income: United States, 1972 National Natality Survey

Duration of marriage and husband's income	Total				White				All other			
	Legitimate live births in thousands	Wanted then	Wanted later	Un-wanted	Legitimate live births in thousands	Wanted then	Wanted later	Un-wanted	Legitimate live births in thousands	Wanted then	Wanted later	Un-wanted
	Percent distribution				Percent distribution				Percent distribution			
Total .....	2,602	65.3	27.1	7.5	2,290	66.4	26.2	7.4	311	57.4	34.0	8.7
Under \$2,000 .....	176	54.5	38.0	7.5	117	59.1	36.3	4.6	59	45.5	41.3	13.2
\$2,000-\$6,999 .....	815	60.9	33.0	6.1	686	61.8	32.6	5.6	129	56.4	35.1	8.5
\$7,000-\$9,999 .....	715	66.3	26.2	7.4	651	66.7	25.8	7.5	65	62.6	30.2	7.2
\$10,000 and over .....	896	70.7	20.4	8.9	837	71.1	19.9	9.1	59	65.6	28.2	6.2
0-11 months .....	363	50.9	47.8	1.3	310	51.7	47.0	1.3	53	46.5	52.5	1.0
Under \$2,000 .....	61	44.6	52.8	2.6	44	47.9	49.8	2.3	17	36.0	60.9	3.2
\$2,000-\$6,999 .....	182	50.0	48.6	1.4	161	50.4	48.1	1.6	21	47.1	52.9	-
\$7,000-\$9,999 .....	71	53.8	45.6	0.7	59	54.5	44.7	0.8	11	50.2	49.8	-
\$10,000 and over .....	50	57.7	42.3	-	46	56.2	43.8	-	*4	*75.8	*24.2	-
12-47 months .....	908	73.8	24.4	1.8	799	75.1	23.4	1.5	108	63.6	32.0	4.4
Under \$2,000 .....	71	62.3	32.6	5.1	45	74.6	24.3	1.1	26	40.8	47.2	12.0
\$2,000-\$6,999 .....	348	69.9	28.5	1.6	299	70.6	28.1	1.3	48	65.6	31.1	3.3
\$7,000-\$9,999 .....	255	75.2	23.6	1.2	233	74.9	23.8	1.3	22	78.4	21.6	-
\$10,000 and over .....	234	81.4	16.7	1.9	222	81.6	16.4	2.0	12	78.0	22.0	-
48-107 months .....	920	69.5	23.5	7.0	818	70.5	22.8	6.7	102	61.5	28.9	9.7
Under \$2,000 .....	33	57.5	28.7	13.9	20	55.8	36.9	7.3	13	60.1	16.1	23.8
\$2,000-\$6,999 .....	203	62.9	29.0	8.1	164	63.6	28.3	8.1	39	59.9	32.1	8.1
\$7,000-\$9,999 .....	276	68.5	24.9	6.6	256	69.4	24.0	6.5	19	55.8	36.0	8.3
\$10,000 and over .....	409	74.5	19.3	6.1	378	75.1	18.8	6.1	31	67.6	25.9	6.6
108 months and over..	411	50.1	23.2	26.8	363	50.5	22.4	27.0	48	46.6	28.6	24.7
Under \$2,000 .....	11	50.3	18.7	31.0	*8	*40.4	*27.7	*32.0	*4	*71.0	-	*29.0
\$2,000-\$6,999 .....	83	42.2	27.6	30.2	62	43.6	26.0	30.4	21	38.1	32.3	29.6
\$7,000-\$9,999 .....	113	49.0	23.3	27.7	101	48.1	23.9	27.9	12	56.8	17.8	25.4
\$10,000 and over .....	204	53.9	21.5	24.6	192	54.5	20.3	25.3	12	43.9	42.3	13.8

NOTE: Figures may not add to totals due to rounding.

Table 9. Estimated number of legitimate live births and percent distribution by wantedness status, according to religious preference of mother and of father: United States, 1968 and 1969 National Natality Surveys

Religious preference	Legitimate live births		Wantedness status					
			Wanted then		Wanted later		Unwanted	
	1969	1968	1969	1968	1969	1968	1969	1968
	Number in thousands		Percent					
<u>Mother</u>								
Total .....	3,242	3,176	62.8	59.4	25.7	27.9	11.5	12.7
Protestant .....	1,864	1,857	62.5	59.1	25.3	27.3	12.2	13.6
Roman Catholic .....	1,014	1,021	62.5	58.7	26.9	29.6	10.6	11.7
Jewish .....	61	60	76.8	79.7	17.8	15.0	5.4	5.4
Other .....	194	141	62.2	65.6	25.2	23.0	12.6	11.4
None .....	109	97	64.4	49.3	26.4	36.7	9.2	13.9
<u>Father</u>								
Total .....	3,242	3,176	62.8	59.4	25.7	27.9	11.5	12.7
Protestant .....	1,817	1,840	63.0	59.0	24.8	27.9	12.1	13.0
Roman Catholic .....	977	924	61.5	58.4	27.7	29.1	10.8	12.5
Jewish .....	69	62	77.0	79.1	19.7	14.0	3.3	6.8
Other .....	172	159	62.1	69.0	24.0	21.7	13.9	9.3
None .....	207	192	62.5	53.1	27.2	30.9	10.2	16.0

NOTE: Figures may not add to totals due to rounding.

Table 11. Percent distribution of legitimate live births by selected characteristics, according to wantedness status: United States, 1968, 1969, and 1972 National Natality Surveys

Selected characteristics	Total legitimate live births			Wantedness status								
				Wanted then			Wanted later			Unwanted		
	1972	1969	1968	1972	1969	1968	1972	1969	1968	1972	1969	1968
	Number in thousands											
Total .....	2,839	3,242	3,176	1,832	2,035	1,886	773	833	885	234	373	405
	Percent distribution											
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<u>Color</u>												
White.....	88.2	87.7	87.4	89.6	91.0	90.2	85.4	84.5	84.9	86.4	77.4	79.7
All other.....	11.8	12.3	12.6	10.4	9.0	9.8	14.6	15.6	15.1	13.6	22.6	20.3
<u>Live-birth order</u>												
First child.....	36.5	35.0	35.4	42.0	40.5	41.4	32.7	33.5	35.1	5.7	7.9	8.1
Second child.....	33.5	28.0	26.8	38.5	32.6	32.9	29.4	25.0	22.8	8.3	9.8	7.1
Third child.....	15.3	17.4	15.6	11.2	15.3	13.6	20.7	19.8	18.5	30.1	23.8	19.2
Fourth child.....	7.1	8.3	9.8	4.3	6.2	6.5	10.4	9.2	11.4	18.3	17.9	21.1
Fifth child and over.....	7.5	11.3	12.4	4.0	5.3	5.5	6.8	12.6	12.3	37.6	40.7	44.5
Median birth order .....	1.4	1.5	1.5	1.2	1.3	1.3	1.6	1.7	1.7	4.3	4.5	4.7
<u>Age of mother</u>												
Under 18 years.....	4.4	3.1	3.8	4.4	2.8	3.3	5.3	4.4	5.9	1.4	1.8	1.7
18-19 years.....	10.4	10.2	10.5	9.6	9.2	10.3	13.2	14.3	13.8	7.1	6.1	4.6
20-21 years.....	12.9	15.0	15.3	12.7	16.2	15.7	15.1	15.9	18.0	6.9	5.8	7.6
22-24 years.....	23.6	23.5	22.2	24.7	25.0	24.1	24.6	24.3	22.6	12.1	13.5	12.4
25-29 years.....	30.1	28.4	27.4	32.4	30.3	29.4	25.4	26.0	24.0	27.0	23.2	25.3
30-34 years.....	12.7	12.6	12.6	11.6	10.9	11.2	12.7	11.3	11.1	21.8	24.9	22.8
35 years and over.....	5.9	7.3	8.1	4.6	5.5	6.0	3.7	3.8	4.5	23.7	24.6	25.5
Median age of mother.....	24.8	24.8	24.7	24.8	24.6	24.6	24.0	23.9	23.6	29.2	29.9	29.7
<u>Age at marriage</u>												
Under 18 years.....	19.7	23.4	24.9	17.4	21.6	21.5	24.2	23.2	27.3	22.9	33.8	35.5
18 years.....	16.3	15.3	14.6	15.5	14.6	14.4	17.7	17.0	16.5	17.7	15.5	11.8
19-20 years.....	29.0	28.5	28.1	29.4	29.2	28.5	27.9	28.0	27.6	29.9	25.7	27.2
21-22 years.....	19.2	18.0	17.5	20.8	18.5	18.9	16.9	19.4	16.1	14.1	12.6	14.2
23-24 years.....	8.8	8.0	7.8	9.1	8.8	8.5	8.7	6.7	7.3	7.1	6.8	5.4
25-29 years.....	5.7	5.7	5.5	6.5	6.0	6.3	3.8	5.2	4.3	5.3	4.9	4.7
30 years and over.....	1.4	1.0	1.6	1.3	1.2	2.1	1.0	0.6	.9	2.9	0.8	1.1
Median age at marriage.....	20.0	19.8	19.7	20.2	19.9	20.0	19.6	19.7	19.5	19.6	19.1	19.2
<u>Educational attainment of mother</u>												
0-8 years.....	4.4	9.2	9.0	4.3	8.1	6.9	3.7	9.4	11.0	6.9	14.4	14.6
9-11 years.....	16.9	22.1	22.8	14.5	19.7	20.4	20.9	23.2	23.8	23.1	32.5	32.2
12 years.....	47.7	43.8	45.1	48.4	44.5	47.2	47.6	44.3	45.3	42.6	39.2	35.4
13-15 years.....	19.1	14.9	14.2	19.0	16.1	15.0	18.6	15.2	13.0	21.7	7.7	13.4
16 years and over.....	11.8	10.0	8.8	13.7	11.6	10.5	9.2	7.8	6.9	5.7	6.1	4.4
Median years of school completed.....	12.6	12.4	12.4	12.6	12.5	12.5	12.5	12.4	12.3	12.5	12.1	12.1
<u>Husband's income</u>												
Under \$2,000.....	6.9	9.5	9.8	5.6	7.8	9.5	9.6	12.6	11.0	7.9	12.2	8.9
\$2,000-\$3,999.....	8.5	14.4	17.9	7.7	13.0	16.0	11.1	18.2	22.2	5.6	13.4	17.8
\$4,000-\$6,999.....	22.9	31.8	36.5	21.6	32.0	35.7	27.3	32.5	39.4	18.9	29.2	34.1
\$7,000-\$9,999.....	27.2	25.8	23.1	27.7	28.0	24.8	26.1	22.0	18.8	27.7	22.3	24.1
\$10,000-\$14,999.....	25.7	14.1	9.2	27.6	14.8	10.3	20.1	11.8	6.1	28.6	15.3	10.7
\$15,000 and over.....	8.8	4.4	3.4	9.8	4.4	3.7	5.8	2.8	2.4	11.3	7.7	4.5
Median income.....	\$8,300	\$6,500	\$5,800	\$8,600	\$6,700	\$6,100	\$7,200	\$5,800	\$5,300	\$8,900	\$6,500	\$6,000

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## APPENDIX I

### TECHNICAL NOTES ON METHODS

#### Background

This report is based on the findings of the 1968, 1969, and 1972 National Natality Surveys. The surveys were conducted by the National Center for Health Statistics to supplement data available from the birth certificate by obtaining additional social and demographic information from a sample of women who had babies during those years. In 1972, additional medical information was obtained from the attending physicians and from the hospitals where the babies were delivered.

#### Sources of Data

The original data source for these surveys was the live-birth certificate. The name and address of the mother of each infant in the sample was obtained from the birth certificate. The data in this report were derived solely from birth certificates and questionnaires mailed to mothers.

Facsimiles of the U.S. Standard Certificate of Live Birth and of the questionnaires sent to the mothers are shown in appendix II. Although most of the registration areas' birth certificates include the same basic information, the standard certificate is not used by all registration areas. The legitimacy item was omitted by 10 areas in 1968, 11 areas in 1969, and 12 areas in 1972, and legitimacy was inferred for their records as described in the section, "Sample Design."

The same questionnaire was sent to the mother in both 1968 and 1969 and was designed primarily to obtain information about the health care received by the mother and her newborn infant as well as social and demographic information. Although the 1972 questionnaire in-

cluded much of the same information as in 1968 and 1969, some items were dropped and others were added.

#### Sample Design

The sampling frames for the National Natality Surveys were the files of microfilm of live-birth certificates received by the National Center for Health Statistics from the 54 birth registration areas of the United States. These birth registration areas included the 50 States, the District of Columbia, and the cities of New York, Baltimore, and New Orleans, which had independent registration systems. Each of the registration areas assigns a file number to each birth certificate, and these file numbers run consecutively from the first to the last birth occurring during the year in that area. The samples for these surveys were based on a probability design that made use of these certificate numbers.

In 1968 and 1969, the sample was composed of 1 out of every 1,000 births of white infants and 1 out of every 500 births of all other infants. Two records were selected at random from each 1,000 consecutive records for each registration area. The second of these two records was rejected if the infant reported on this second record was white. This method of sample selection forced the sample to be representative by geographic area and time of occurrence for births of white and all other infants while preserving the probability design within each registration area. In 1972, each 500 consecutive records from each area constituted a primary sampling unit, and one record from each primary unit was selected at random. Thus, the sample of selected certificates represented 1/500th of the live births occurring in the 54 areas during 1972.

Sampled records for infants who were reported or inferred to be illegitimate were excluded from the survey and no questionnaires were mailed to the mothers. Thus, the statistics presented in this report pertain only to *legitimate* live births occurring in the United States during 1968, 1969, and 1972. The inference of illegitimacy was necessary for some of the certificates, since 10 to 12 of the registration areas did not have a legitimacy item on some or all of their certificates in these years. A birth was inferred to be illegitimate when any of the following conditions was present on the certificate: (1) the name of the father of the child was omitted; (2) the mother's surname as stated in the "informant" or "mailing address" section was the same as her maiden name and was different from the father's surname; (3) the mother's surname was different from her maiden name but also differed from the father's surname and differed from the baby's surname; (4) the mother's surname was missing from both the "informant" section and the "mailing address" section of the certificate and the baby's surname was different from the father's surname. Using these rules, 259 sample records were inferred to be for illegitimate births in 1968-69 and 261 were inferred illegitimate in 1972.

In addition to the cases excluded from the surveys due to illegitimacy, 121 cases in 1968 and 55 cases in 1969 had to be excluded because the States in which the mothers resided would not allow the survey to query these women or because the mother was not a resident of the United States. These "not-queried" cases were handled as though they were nonrespondents and data were imputed for them; the illegitimate cases were excluded entirely.

Table I shows the number of live births in the United States and in the original sample, the number of legitimate births included in the survey, and the number of mothers to whom questionnaires were mailed.

### Collection of Data

Data for the 1968, 1969, and 1972 National Natality Surveys were collected primarily by mail. Using the addresses given on the birth certificates, questionnaires were mailed to mothers and, in 1972, to hospitals and physicians as well. No questionnaires were mailed in cases where the birth was reported or inferred to be illegitimate.

In 1968 and 1969, followup procedures for nonresponses consisted of a questionnaire sent by certified mail 16 days after the original first-class mailing and a second followup questionnaire sent by regular mail 3 weeks after the certified mailing. When the questionnaire was returned and certain items were incomplete or inconsistent, either a special letter was sent or a telephone call was made to obtain the missing data. A final followup was made by U.S. Bureau of the Census interviewers for mothers who did not respond or whose responses were largely incomplete.

In 1972, the mothers were sent the first as well as the followup questionnaire by regular first-class mail. Followup questionnaires were sent if the original questionnaire was not returned within 16 days. If after an additional 21 days the followup questionnaire elicited no response, an interview by telephone or in person was attempted. Incomplete or inconsistent items on the questionnaires from the mothers were fol-

Table I. Number of live births in the United States and number of births in the 1968, 1969, and 1972 National Natality Surveys

Item	1972	1969	1968
Live births in the United States .....	3,258,411	3,600,206	3,501,564
Births selected in the sample.....	6,505	4,205	4,082
Illegitimate births excluded from the sample.....	816	539	487
Legitimate births in the survey .....	5,689	3,666	3,595
Mothers mailed a questionnaire.....	5,676	3,611	3,474
Mothers not mailed questionnaire because of State restrictions .....	-	42	113
Mothers not mailed questionnaire because mother not U.S. resident .....	13	13	8

lowed up by telephone or personal interview. The mother of the infant was the only person from whom the information on the mother questionnaire was accepted. In the telephone and personal interviews, no proxy respondents were accepted.

### Response Rates

In 1968, the rate of response from the 3,595 mothers was 88.9 percent, and in 1969, 84.8 percent of the 3,666 mothers responded. By 1972 the response rate had declined to 71.5 percent of the 5,689 mothers. The response rates varied with age—the younger mothers had lower response rates. At each age, the response of white mothers was higher than that of all other mothers. The number of births in the sample and the response rates by age of mother and color are shown in table II.

### Processing of Data

After all attempts to obtain completed questionnaires had been exhausted, the information

from the questionnaires received by mail and through interviews was coded, verified, and transcribed onto computer tapes. The computer tape records were then edited for valid ranges of codes and consistency of answers within each data source. Where two or more items within one data source were found to be inconsistent, other information from that source could sometimes be used to determine which items could be kept and which rejected. When no such decision was possible, all the inconsistent items were considered to be nonresponses so that they could later be imputed utilizing other information that was known about the mother or infant.

No attempt was made to reconcile inconsistencies between different sources of information. For example, if the birth certificate stated the mother's age to be 25 and the mother's questionnaire said it was 27, the two ages were both recorded as stated with no resolution of the difference. It was neither possible nor desirable to decide which source had provided the "right" information and to change the other to conform.

Table II. Response rates for mothers, by age of mother and color: United States, 1968, 1969, and 1972 National Natality Surveys

Age of mother and color	1972		1969		1968	
	Number in sample	Percent responding	Number in sample	Percent responding	Number in sample	Percent responding
Total.....	5,689	71.5	3,666	84.8	3,595	88.9
Under 20 years .....	833	57.5	495	76.2	569	85.6
20-24 years .....	2,137	70.7	1,375	84.9	1,289	88.2
25-29 years .....	1,681	76.9	1,057	88.7	1,026	90.9
30-34 years .....	692	74.7	451	86.0	434	89.6
35 years and over.....	346	77.2	288	82.3	277	90.3
White .....	5,007	73.6	2,852	87.2	2,766	89.7
Under 20 years .....	708	58.9	369	80.5	410	85.6
20-24 years .....	1,899	73.5	1,068	87.0	1,007	90.2
25-29 years .....	1,517	78.8	840	91.1	815	90.8
30-34 years .....	586	75.6	353	86.7	330	90.0
35 years and over.....	297	78.8	222	85.1	204	91.2
All other .....	682	56.0	814	76.4	829	86.1
Under 20 years .....	125	49.6	126	63.5	159	85.5
20-24 years .....	238	48.7	307	77.9	282	81.2
25-29 years .....	164	59.1	217	79.7	211	91.5
30-34 years .....	106	69.8	98	83.7	104	88.5
35 years and over.....	49	67.3	66	72.7	73	87.7

## Imputation of Missing Data

In any survey where the participation of the subjects is not mandatory, there will be some subjects who do not respond to the survey questionnaire. In the 1972 survey, the mothers, doctors, and hospitals were all told, both on the printed questionnaires and by the telephone and personal interviewers, that they were under no legal obligation to participate in the survey, that their participation was completely voluntary. Some sources who were mailed questionnaires did not return them (unit nonresponse), and some who returned them did not answer all the questions (item nonresponse). Unit nonresponses were not deleted from the data file because birth certificate data was available. The missing information was imputed on the basis of information on the certificate and also given, in most cases, by at least one other source. For example, if a physician did not respond, but both the hospital and the mother did, information from these sources could be used along with the birth certificate to impute data that were missing data from the doctor.

In the 1968 and 1969 surveys, imputation procedures differed for unit nonresponse and item nonresponse. Unit nonresponse was imputed as a whole unit, taking the entire set of information from another questionnaire, matching that case's age, live-birth order, and color to that of the nonrespondent, which are available from the birth certificate. For example, if a mother did not return a questionnaire, the entire "mother section" for that case record could be imputed from the record of a mother with the same age, number of children, and color who did respond to the survey. This method of handling unit nonresponse has the advantage of assuring internal consistency of responses for a particular birth within that section of the record which is imputed. Since the respondent's record would have been checked for internal consistency prior to imputation, the nonrespondent would be receiving an internally consistent record. A disadvantage of this method is that all of a given respondent's answers would have greater weight in the final results. Furthermore, the respondent's record may have had some item nonresponse in it, and after unit imputation, the rec-

ord would have to be handled again in order to impute for item nonresponse.

The method used in the 1972 National Natality Survey was to treat unit nonresponse as a series of individual item nonresponses and impute each item separately. This way, whole blocks of answers were not taken from one respondent and imputed to a nonrespondent. An advantage is that no one respondent's answers were given undue weight. Also, there is only one imputation process instead of two. The disadvantage to this method rests in the possibility of creating internal inconsistencies by imputing one item from one respondent, another item from a second respondent, and so forth. Inconsistencies were minimized by carefully selecting qualifying characteristics, which vary with the type of information being imputed. Since postimputation consistency checks must be made, to check for a valid range of responses, these same checks can be used to locate any inconsistencies that may have been caused by the imputation.

The item imputation process was accomplished by a program that constructed a matrix for each variable requiring imputation. The dimensions of this matrix were determined by the number of control characteristics used and the number of levels of classification of each characteristic. At the start, the cells of the matrix were filled with average or modal values, which were replaced as soon as a record was read from the file having a known value for that item and the appropriate characteristics for that cell. The cell values were continually replaced by successive known values as the file of records was processed. When a record was read that contained a nonresponse for a particular item, the nonresponse code was replaced with whatever value resided at that moment in the matrix cell corresponding to the qualifying characteristics of the nonrespondent. Some examples of the qualifying characteristics used for item imputation are: (1) to impute age of mother, the control items were age of father, mother's education, and mother's parity; (2) to impute age of father, the mother's age and the father's education were used; (3) to impute father's income, the father's race, education, and age were used.

Table III shows the item nonresponse rate for selected variables from the mother's ques-



Table III. Item nonresponse rates for selected variables on mother's questionnaire: United States, 1968, 1969, and 1972 National Natality Surveys

Selected variables	1972	1969	1968
	Percent item nonresponse		
Wantedness status.....	1.3	7.0	14.6
Expectation of additional children.....	0.9	0.8	1.2
Number of additional children expected.....	2.6	3.4	5.0
Year of first marriage.....	0.8	0.8	0.8
Year of present marriage.....	0.6	0.7	0.7
Education of father.....	0.9	0.8	1.0
Education of mother.....	0.2	0.2	0.4
Husband's income.....	3.8	5.1	4.1
Religious preference of father.....	---	0.8	0.8
Religious preference of mother.....	---	0.5	0.7

tionnaire. These figures do not include cases where no questionnaire was returned or where a "don't know" response was allowed.

The increase in unit nonresponse between 1968 and 1972 was partially offset, for the item on wantedness of the pregnancy, by the decline in the item nonresponse such that total nonresponse for this item was only slightly higher in 1972 (29.8 percent) than in 1968 (25.7 percent). Since wantedness status was imputed for about 30 percent of the cases, the validity of the imputation was checked for the 1972 data by comparing the distribution of births by wantedness status for respondents with that for nonrespondents. When this was done for selected age-birth-order-education groups, it was found that the distributions were similar for respondents and nonrespondents. Therefore, it appears that imputation did not seriously distort the overall distribution of births by wantedness status.

### Estimation

The weights that are used to inflate the sample statistics so that they represent national estimates of legitimate live births are calculated using a poststratified ratio estimation procedure. The purpose of ratio estimation is to take into account available relevant information, thereby reducing the variability of the estimate. The relevant information used in the National Natality Surveys was age of mother, live-birth order, and color. These three items are recorded on the birth certificate, and statistics showing the national totals are published annually in *Vital Statistics of the United States*.

The birth certificates were first checked to be certain that these items were complete on all records. When they were not, the items were imputed, using other information from the certificate.

All certificates were classified as belonging in one of the 24 groups as shown in table IV. The number of births in the United States in each of these 24 groups was obtained from the vital registration data. The births in the "live-birth order not stated" category in the national data were distributed to known categories for each age and color group in the same proportions as the births with known live-birth order.

Twenty-four weights ( $w_i$ ,  $i = 1$  to 24) were then calculated as ratios of national statistics to sample statistics for each of the 24 groups. The number of registered U.S. births in each group ( $Y_i$ ) was divided by the total number of sample births (legitimate and illegitimate) in each group ( $y_i$ ). Thus  $w_i = Y_i/y_i$ .

The estimates of characteristics are produced from the sample using the following formula:

$$X'_i = \sum_{i=1}^{24} w_i x_i$$

where  $X'$  is the estimated number of legitimate births in the United States with a particular characteristic,  $x_i$  is the number of legitimate births in group  $i$  of the sample with the characteristic, and  $w_i$  is the weight assigned to each birth in group  $i$  of the sample.

Table IV. Age of mother, live-birth order, and color groups used for ratio estimation: United States, 1968, 1969, and 1972 National Natality Surveys

Group	Color and age	Live-birth order
<u>White</u>		
1	Under 20 years .....	1
2	Under 20 years .....	2+
3	20-24 years .....	1
4	20-24 years .....	2
5	20-24 years .....	3+
6	25-29 years .....	1
7	25-29 years .....	2
8	25-29 years .....	3-4
9	25-29 years .....	5+
10	30-34 years .....	1-2
11	30-34 years .....	3-4
12	30-34 years .....	5+
13	35 years and over .....	1-4
14	35 years and over .....	5+
<u>All other</u>		
15	Under 20 years .....	1
16	Under 20 years .....	2+
17	20-24 years .....	1-2
18	20-24 years .....	3+
19	25-29 years .....	1-2
20	25-29 years .....	3-4
21	25-29 years .....	5+
22	30-34 years .....	1-4
23	30-34 years .....	5+
24	35 years and over .....	All

### Reliability of Estimates

Since the statistics derived from this survey are estimates based on a sample, they may differ from the figures that would have been obtained had all legitimate births been surveyed using the same questionnaire and procedures.

The probability design of the sample for the survey makes possible the calculation of sampling errors. The standard error is a measure of the sampling variation that occurs by chance because only a sample rather than the entire population is surveyed. The chances are about 68 out of 100 that an estimate from the sample differs from the value for the entire population by less than 1 standard error. The chances are about 95 out of 100 that the difference is less than 2 standard errors and about 99 out of 100 that the difference is less than 3 standard errors. The standard error of a difference between two sample estimates is approximately the square

root of the sum of squares of each standard error considered separately. This formula represents the actual standard error quite accurately for the difference between separate and uncorrelated characteristics, although it is only a rough approximation in most other cases.

The variance of a statistic depends not only on the design of the sample, but also on the distribution of the statistic itself; the variance is greater for measurements that are highly variable from one individual to another, and lower for measurements that are less variable. Because the estimates of the sampling error are obtained from the sample data, they are themselves subject to sampling error, which may be large in some instances.

Estimates of sampling variability for the statistics derived from these surveys have been computed using 20 random half-sample replications. This technique yields overall variability through observation of variability among random subsamples of the total sample. It reflects both the error that arises from sampling and a part of the measurement error, but it does not measure any systematic biases in the data. More technical discussions of the development and evaluation of replication techniques for estimating variance have been published elsewhere.<sup>4,5</sup> However, the procedures and computations required to estimate variances by this method in these National Natality Surveys are described briefly as follows.

Each record from the entire file of records in the survey was assigned systematically to a random group between 1 and 40. Twenty random pairs were created from these 40 groups. A half-sample was formed by randomly selecting one group from each of the 20 pairs. This process was repeated until 20 replicate half-samples were formed from which variance estimates were derived. The composition of the 20 half-samples was determined by an orthogonal plan.

After the composition of each of the half-samples was determined, all the estimation procedures used to produce the final estimates for the entire sample were applied separately to each of the resulting half-samples.

NOTE: A list of references follows the text.

An estimated variance  $S_x^2$ , of an estimated statistic  $x'$  of the parameter  $X$  is obtained by applying the following formula:

$$S_x^2 = \frac{1}{20} \sum_{i=1}^{20} (x_i'' - x')^2$$

where

$x'$  is the estimate of  $X$  based on the entire sample

and

$x_i''$  is the estimate of  $X$  based on half-sample  $i$

Rules to determine the approximate standard errors for estimates derived from this survey are as follows:

1. *Estimates of aggregates.*—Approximate standard errors for estimates of aggregates are given in tables V and VI. Because different sampling fractions were used for white and all other births in 1968 and 1969, the standard errors of estimates including only white births or only all other births are shown separately in table V (standard errors of all other births are used for black births).

Example: Suppose 100,000 mothers indicated their pregnancy was unwanted in

Table VI. Approximate standard errors for aggregates: United States, 1972 National Natality Survey

Size of estimate	Relative standard error (in percent)	Standard error
3,000.....	29.2	876
5,000.....	22.6	1,130
10,000.....	16.0	1,600
30,000.....	9.2	2,760
50,000.....	7.1	3,550
70,000.....	6.0	4,200
100,000.....	5.0	5,000
200,000.....	3.4	6,800
500,000.....	2.1	10,500
700,000.....	1.7	11,900
1,000,000.....	1.3	13,000
2,000,000.....	0.6	12,000
2,500,000.....	0.4	10,000

1972. From table VI, the relative standard error for an estimate of that size is 5,000. Therefore, the chances are about 68 out of 100 that this estimate of 100,000 from the sample differs from the value for the entire population by less than 1 standard error, that is, the number of mothers who had an unwanted pregnancy ranges between 95,000 and 105,000 ( $100,000 \pm 5,000$ ). The chances are about 95 out of 100 that the difference from the population value is less than twice the standard error, and that the number of mothers who had an unwanted pregnancy ranges between 90,000 and 110,000 ( $100,000 \pm 10,000$ ).

Table V. Approximate standard errors for aggregates: United States, 1968 and 1969 National Natality Surveys

Size of estimate (in thousands)	Total		White		All other or black	
	Relative standard error (in percent)	Standard error	Relative standard error (in percent)	Standard error	Relative standard error (in percent)	Standard error
25.....	9.8	2446	13.6	3393	9.3	2329
50.....	6.6	3296	9.3	4670	6.4	3204
75.....	5.4	4035	7.5	5603	5.1	3845
100.....	4.5	4545	6.1	6114	4.2	4196
150.....	3.6	5369	4.9	7284	3.3	4999
200.....	3.0	6031	4.1	8219	2.8	5640
250.....	2.6	6595	3.6	8934	2.5	6132
300.....	2.4	7088	3.2	9451	2.2	6486
500.....	1.8	8805	2.5	12576	1.7	8631
700.....	1.5	10788	2.3	15777	1.5	10827
1,000.....	1.1	11144	1.6	16436	1.1	11280

2. *Estimates of percentages in a percent distribution.*—Approximate standard errors for estimated percentages are obtained in one of the following two ways, depending upon the source of the base of the percentage:

a. When the denominator is one of the 24 ratio estimation classes shown in table IV, the standard error of the denominator is negligible and the relative standard error of the percentage is equivalent to the relative standard error of the numerator, given in tables V and VI.

Example: Suppose that of the approximately 116,000 mothers who are white, age 30-34, and have had 3-4 live births, 26 percent, or about 30,000 had unwanted pregnancies in 1972. Since these women compose the 11th class of the 24 ratio estimation classes shown in table IV, the relative standard error of the per-

centage is equivalent to the relative standard error of the numerator. Table VI shows that the relative standard error for an estimate of 30,000 is 9.2 percent. Thus, 9.2 percent of the 26 percent estimate is 2.392 percentage points.

b. When the denominator is an estimate from the sample that is not one of the 24 ratio estimation classes, the approximate standard errors are given in tables VII through X.

Example: Suppose that 20 percent of mothers in some category had an unwanted pregnancy in 1972, and the base of that percent is 50,000. From table X, the 20-percent column and the 50,000 row indicate that 2.9 percent is the standard error. Therefore, the chances are about 68 out of 100 that this

Table VII. Approximate standard errors for percentages for total births: United States, 1968 and 1969 National Natality Surveys

Base of percent (in thousands)	Estimated percent							
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	30 or 70	40 or 60	50
	Standard errors expressed in percentage points							
30 .....	1.7	2.6	3.7	4.9	5.2	5.6	5.9	6.1
50 .....	1.3	2.1	2.8	3.7	4.1	4.3	4.6	4.7
100 .....	0.9	1.4	2.0	2.7	2.9	3.0	3.3	3.3
250 .....	0.6	0.9	1.3	1.7	1.8	1.9	2.1	2.1
500 .....	0.4	0.6	0.9	1.2	1.3	1.3	1.5	1.5
1,000 .....	0.3	0.4	0.6	0.8	0.9	1.0	1.1	1.1
2,000 .....	0.2	0.4	0.4	0.6	0.6	0.7	0.7	0.8
3,000 .....	0.1	0.3	0.4	0.5	0.5	0.6	0.6	0.6

Table VIII. Approximate standard errors for percentages for white births: United States, 1968 and 1969 National Natality Surveys

Base of percent (in thousands)	Estimated percent							
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	30 or 70	40 or 60	50
	Standard errors expressed in percentage points							
30 .....	1.8	2.8	3.9	5.2	5.6	5.9	6.3	6.4
50 .....	1.4	2.2	3.0	4.0	4.3	4.6	4.9	5.0
100 .....	1.0	1.6	2.1	2.8	3.0	3.3	3.5	3.5
250 .....	0.6	1.0	1.3	1.8	1.9	2.1	2.2	2.3
500 .....	0.4	0.7	0.9	1.3	1.3	1.4	1.6	1.6
1,000 .....	0.3	0.5	0.6	0.9	1.0	1.0	1.1	1.1
2,000 .....	0.2	0.4	0.5	0.6	0.7	0.7	0.8	0.8
3,000 .....	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6
4,000 .....	0.1	0.2	0.4	0.4	0.5	0.5	0.6	0.6

Table IX. Approximate standard errors for percentages for all other or black births: United States, 1968 and 1969 National Natality Surveys

Base of percent (in thousands)	Estimated percent							
	2 or 98	5 or 95	10 or 80	20 or 80	25 or 75	30 or 70	40 or 60	50
	Standard errors expressed in percentage points							
30.....	1.3	2.0	2.8	3.7	4.0	4.2	4.5	4.6
50.....	1.0	1.6	2.1	2.8	3.0	3.3	3.5	3.5
100.....	0.7	1.1	1.5	2.0	2.2	2.3	2.5	2.5
250.....	0.4	0.7	0.9	1.3	1.3	1.4	1.6	1.6
500.....	0.3	0.5	0.7	0.9	1.0	1.0	1.1	1.1
1,000.....	0.2	0.4	0.5	0.6	0.7	0.7	0.8	0.8
2,000.....	0.1	0.2	0.4	0.4	0.5	0.5	0.6	0.6
3,000.....	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4
4,000.....	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4

Table X. Approximate standard errors for percentages: United States, 1972 National Natality Survey

Base of percent (in thousands)	Estimated percent						
	2 or 98	5 or 95	10 or 90	20 or 80	30 or 70	40 or 60	50
	Standard errors expressed in percentage points						
3.....	4.1	6.4	8.8	11.7	13.4	14.3	14.6
5.....	3.2	4.9	6.8	9.0	10.4	11.1	11.3
10.....	2.2	3.5	4.8	6.4	7.3	7.8	8.0
30.....	1.3	2.0	2.8	3.7	4.2	4.5	4.6
50.....	1.0	1.6	2.1	2.9	3.3	3.5	3.6
70.....	0.8	1.3	1.8	2.4	2.8	3.0	3.0
100.....	0.7	1.1	1.5	2.0	2.3	2.5	2.5
200.....	0.5	0.8	1.1	1.4	1.6	1.8	1.8
500.....	0.3	0.5	0.7	0.9	1.0	1.1	1.1
700.....	0.3	0.4	0.6	0.8	0.9	0.9	1.0
1,000.....	0.2	0.3	0.5	0.6	0.7	0.8	0.8
2,000.....	0.2	0.2	0.3	0.4	0.5	0.6	0.6
2,500.....	0.1	0.2	0.3	0.4	0.5	0.5	0.5

20.0-percent estimate from the sample differs from the value for the entire population by less than 1 standard error, and the percent of mothers in the population who had an unwanted pregnancy ranges between 17.1 and 22.9 percent (20.0 percent ± 2.9 percentage points).

3. *Difference between two sample estimates.*—The standard error of a difference is approximately the square root of the sum of the squares of the standard errors of the two estimates. This formula will represent the actual standard error quite accurately for the difference between mothers with separate and uncorrelated characteristics, although it is only a

rough approximation in cases where the characteristics are correlated.

Example: Suppose that 700,000 mothers in group A had a birth in 1972 that was wanted then, and 500,000 mothers from group B also had a birth wanted then. The difference between these two estimates is 200,000. The standard errors for 700,000 and 500,000 obtained from table VI are used as follows:

$$\sqrt{11,900^2 + 10,500^2} = 15,870$$

This represents 1 standard error for the difference of 200,000, and 2 standard errors would be 31,740. Thus, a 95-percent confidence interval for the 200,000 estimate of

difference is 168,260 to 231,740 (200,000 ± 31,740).

Note that linear interpolation will generally suffice when the table values do not correspond closely to the statistics being tested.

In this report an asterisk (\*) is shown with numbers and percents that are based on less than 10-20 sample cases (5,000-10,000 weighted cases).

In addition to sampling errors, survey results are subject to errors in conceptual formulation; ambiguities in definitions in the wording of questions; biases due to nonresponse or incomplete response; and errors in coding, editing, and tabulation. Although there is no way of computing the magnitude of these errors, they were minimized as much as possible.

Errors in conceptual formulation and ambiguities were reduced by pretesting the questionnaires before the surveys began. The steps

taken to reduce biases due to nonresponse were discussed in the sections, "Collection of Data" and "Imputation of Missing Data." Errors in coding and editing were reduced by independent verification and by the consistency and interval checks discussed in the section, "Processing of Data." Errors in tabulation were reduced, if not eliminated, by carefully cross-checking the tabulations and by comparing data from this survey with data from other sources when available.

### **Rounding of Numbers**

The original tabulations on which the data in this report are based show figures to the nearest whole unit. In the published tables, estimates of aggregates are rounded to the nearest thousand although they are not necessarily accurate to that detail. All percentages, ratios, and averages were computed using unrounded figures.



# APPENDIX II SOURCE FORMS

FORM APPROVED  
BUDGET BUREAU NO. 68-R1900

## U.S. STANDARD CERTIFICATE OF LIVE BIRTH

TYPE, OR PRINT IN  
PERMANENT INK  
SEE HANDBOOK FOR  
INSTRUCTIONS

LOCAL FILE NUMBER

BIRTH NUMBER

	CHILD—NAME 1 FIRST MIDDLE LAST	DATE OF BIRTH (MONTH, DAY, YEAR) 2a	HOUR 2b	M.	
<b>CHILD</b>	SEX 3	THIS BIRTH—SINGLE, TWIN, TRIPLET, ETC (SPECIFY) 4a	IF NOT SINGLE BIRTH—BORN FIRST, SECOND, THIRD, ETC (SPECIFY) 4b	COUNTY OF BIRTH 5a	
	CITY, TOWN, OR LOCATION OF BIRTH 5b		INSIDE CITY LIMITS (SPECIFY YES OR NO) 5c	HOSPITAL—NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER) 5d	
<b>MOTHER</b>	MOTHER—MAIDEN NAME 6a FIRST MIDDLE LAST	AGE (AT TIME OF THIS BIRTH) 6b	STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY) 6c		
	RESIDENCE—STATE 7a	COUNTY 7b	CITY, TOWN, OR LOCATION 7c	INSIDE CITY LIMITS (SPECIFY YES OR NO) 7d	
<b>FATHER</b>	FATHER—NAME 8a FIRST MIDDLE LAST	AGE (AT TIME OF THIS BIRTH) 8b	STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY) 8c		
	INFORMANT 9a			RELATION TO CHILD 9b	
<b>CERTIFIER</b>	I CERTIFY THAT THE ABOVE NAMED CHILD WAS BORN ALIVE AT THE PLACE AND TIME AND ON THE DATE STATED ABOVE 10a SIGNATURE CERTIFIER—NAME (TYPE OR PRINT)		DATE SIGNED (MONTH, DAY, YEAR) 10b	ATTENDANT—M.D., D.O., MIDWIFE, OTHER (SPECIFY) 10c	
	REGISTRAR—SIGNATURE 11a			DATE RECEIVED BY LOCAL REGISTRAR MONTH DAY YEAR 11b	
	<b>CONFIDENTIAL INFORMATION FOR MEDICAL AND HEALTH USE ONLY</b>				

<b>FATHER</b>	RACE—FATHER WHITE, NEGRO, AMERICAN INDIAN, ETC (SPECIFY) 12		EDUCATION—SPECIFY HIGHEST GRADE COMPLETED ELEMENTARY (0,1,2,3,4, OR 8) HIGH SCHOOL (1,2,3, OR 4) COLLEGE (1,2,3,4, OR 5+) 13			PREVIOUS DELIVERIES—HOW MANY OTHER CHILDREN ARE NOW LIVING WERE BORN ALIVE—NOW DEAD WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION) 14a 14b 14c			
	RACE—MOTHER WHITE, NEGRO, AMERICAN INDIAN, ETC (SPECIFY) 15		EDUCATION—SPECIFY HIGHEST GRADE COMPLETED ELEMENTARY (0,1,2,3,4, OR 8) HIGH SCHOOL (1,2,3, OR 4) COLLEGE (1,2,3,4, OR 5+) 16			DATE OF LAST LIVE BIRTH MONTH DAY YEAR 17a		DATE OF LAST FETAL DEATH MONTH DAY YEAR 17b	
<b>MOTHER</b>	DATE LAST NORMAL MENSES BEGAN MONTH DAY YEAR 18		MONTH OF PREGNANCY PRENATAL CARE BEGAN FIRST, SECOND, THIRD, ETC (SPECIFY) 19a		PRENATAL VISITS TOTAL NUMBER (IF NONE, SO STATE) 19b		LEGITIMATE (SPECIFY YES OR NO) 20		BIRTH WEIGHT 21
	COMPLICATIONS RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE") 22				BIRTH INJURIES TO CHILD (DESCRIBE OR WRITE "NONE") 23				
COMPLICATIONS NOT RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE") 24				CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (DESCRIBE OR WRITE "NONE") 25					
COMPLICATIONS OF LABOR (DESCRIBE OR WRITE "NONE") 26									

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE—PUBLIC HEALTH SERVICE—NATIONAL CENTER FOR HEALTH STATISTICS  
1968 REVISION  
PHS-796—REV. 1-68  
MULTIPLE BIRTHS  
ENTER STATE FILE  
NUMBER FOR  
MATE(S)  
LIVE BIRTH(S)  
FETAL DEATH(S)

# 1968 and 1969 National Natality Surveys



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
WASHINGTON, D. C. 20201

NATIONAL CENTER FOR  
HEALTH STATISTICS

REFER TO:

□

L

The United States Public Health Service is conducting a national study of families having babies during 1968. In this study, we are particularly interested in health care received by the mother and her baby. We are also interested in learning about the size and types of families having babies as well as about other family characteristics. This information is needed in order to plan medical care programs and to understand better the growth and changes taking place in our population.

This study will be based on information obtained from families which were chosen as a sample from among the nearly 4 million families having a baby during 1968. Your family was one of those selected. Please answer the questions on the following pages and return this form within five days in the enclosed postage-free envelope.

Since this study is limited to only one out of every 1,000 families in the United States having a baby during 1968, it is important that we receive a reply from every person who is sent a questionnaire. If you do not know the answers to some of the questions or if they do not apply, please write a note about those questions and answer the others. Even if the baby is not living with you or has died, we would appreciate your answering each question. You are assured that all information which you report about yourself and your family will be kept completely confidential in accordance with the regulations of the United States Public Health Service. The information will not be disclosed to any person or any other agency and it will be used for statistical purposes only.

Thank you for your cooperation.

Sincerely yours,

Robert D. Grove, Ph.D.  
Director, Division of Vital Statistics

Name of Child	
Date of Birth	File Number

2H



# NATIONAL BIRTH SURVEY

## PART I. MEDICAL CARE

1. (a) Did you see a doctor about your pregnancy at any time before you went to the hospital to have your baby?

Yes       No

↓  
(b) How many months pregnant were you when you first saw a doctor about your pregnancy?  
\_\_\_\_\_ months

3. (a) Has a doctor examined your baby since he was brought home from the hospital?

Yes       No

↓  
(b) How old was your baby when you took him to the doctor for his first examination?  
\_\_\_\_\_ weeks

↓  
(c) Has your baby been examined by a nurse at home or at a clinic?  
 Yes     No

2. (a) Have you been examined by a doctor since you left the hospital after having your baby?

Yes       No

↓  
(b) How long after your baby was born did you first go to the doctor for an examination?  
\_\_\_\_\_ weeks

4. (a) How many nights were you in the hospital *after* your baby was born?  
\_\_\_\_\_ nights

(b) Did your baby leave the hospital with you?

Yes       No

↓  
(c) If no, what was the TOTAL number of nights the baby was in the hospital?  
\_\_\_\_\_ nights

## PART II. INFORMATION ABOUT YOURSELF

1. (a) Did you smoke cigarettes at all during the year before your baby was born?

Yes       No

↓  
(b) On the average, how many cigarettes A DAY did you smoke *before* you knew you were pregnant? \_\_\_\_\_ cigarettes

(c) On the average, how many cigarettes A DAY did you smoke *after* you knew you were pregnant? \_\_\_\_\_ cigarettes

2. (a) When your baby was first born did you breast feed him?

Yes, breast fed, no bottle       No, did not breast feed  
 Yes, breast fed and bottle

↓  
(b) If breast fed, how old was your baby when you stopped breast feeding him?

\_\_\_\_\_ weeks or     Still breast feeding

3. How long after your baby was born did you start to menstruate again?

\_\_\_\_\_ weeks or     Still haven't started

## PART III. INFORMATION ABOUT YOUR PREGNANCIES

*In this part we are interested in knowing about all the times you have ever been pregnant and about all the children who have ever been born to you, even if they were by a previous marriage.*

1. Have you ever had a miscarriage?

No       Yes

↓  
How many have you ever had?

\_\_\_\_\_ number

2. Have you ever had a stillbirth (that is a baby born dead)?

No       Yes

↓  
How many have you ever had?

\_\_\_\_\_ number

3. (a) How many babies have you ever had born alive?  
(Be sure to count your new baby)

Number

(b) Have any of these children died?

No

Yes

↓  
Please list here.

Name of Child	Sex	Date of Birth	Date of Death

4. Were any of your children living away when your new baby was born? (Do not list children away at school or college. Do list those in the Armed Forces, living with relatives, etc.)

No

Yes

↓  
Please list here.

Name of Child	Sex	Date of Birth

5. Just before you became pregnant with your new baby, did you want to become pregnant? (Check only one box)

Yes

No, wanted another baby, but did not want to become pregnant yet

No, did not want another baby

6. (a) After each birth, some couples feel that their families are complete while others expect more children. In your case, do you expect to have more children?

Definitely yes

Probably no

Probably yes

Definitely no

↓  
(b) When do you expect to have your next baby?  
\_\_\_\_\_ years

↓  
(c) How many more babies do you expect to have?  
\_\_\_\_\_ babies

↓  
(d) If you expect to have more than one, in how many years do you expect to have your last baby?  
\_\_\_\_\_ years

**PART IV. INFORMATION ABOUT YOURSELF AND YOUR HUSBAND**

1. Is this your *first* marriage?

Yes → Please give the year of your marriage-----

No → Please give the year of your *first* marriage-----

No → Please give the year your *first* marriage ended-----

No → Please give the year of your present marriage-----

2. (a) What is the highest grade (or year) of school that you have ever finished?

(Circle highest grade COMPLETED)

None----- 0

Public or other { 1 2 3 4 5 6  
regular school { 7 8 9 10 11 12

College or University 1 2 3 4 5+

Other (specify) \_\_\_\_\_

(b) Please give the year you finished that grade. -----

3. What is the highest grade (or year) of school that your husband has ever finished?

(Circle highest grade COMPLETED)

None----- 0

Public or other { 1 2 3 4 5 6  
regular school { 7 8 9 10 11 12

College or University 1 2 3 4 5+

Other (specify) \_\_\_\_\_

4. What is your religious preference?

Protestant

Roman Catholic

Jewish

Other (specify) \_\_\_\_\_

None

5. What is your husband's religious preference?

Protestant

Roman Catholic

Jewish

Other (specify) \_\_\_\_\_

None

## PART V. INFORMATION ABOUT YOUR HOUSEHOLD

*In this part, information is asked about the members of the household who lived with you when your new baby was born.*

1. List below everyone who *usually lived* in your household at the time your new baby was born. Be sure to list yourself, your husband (if he lived at home) and your newborn baby, as well as other children, relatives and nonrelatives living with you. Children who were away at school or college should also be listed. *Do not* include persons who lived away (for example, persons in the Armed Forces). Also, *do not* include persons who were only visiting in your house temporarily at the time your baby was born.

Enter your name on the first line; enter the names of every other person who lived with you, including your newborn baby, on the following lines.  (First name)                      (Last name)	For each person, provide the information requested below.		
	Relationship to you (husband, daughter, son, father-in-law, nephew, stepson, adopted daughter, lodger, etc.)	Date of birth Month-Day-Year	Marital Status Single (never married) Married      Separated Widowed      Divorced
	Yourself		

*(If more space is needed, please continue on back)*

2. At the time your new baby was born who was the head of your household?

Your husband

Another person → Name of head

3. At the time your new baby was born, was your husband serving in the Armed Forces?

Yes

No

*(GO ON TO PART VI)*

---

## PART VI. YOUR WORK HISTORY

---

*These questions concern work for pay, work in own business, profession or farm, or unpaid work in family's business, profession or farm. Include full-time and seasonal work.*

---

1.(a) Have you worked since the birth of your new baby?

Yes

No

(b) How old was your baby when you returned to work? \_\_\_\_\_ months

(d) Are you planning to go to work?

Yes

No

(c) Are you working at the present time?

(e) How soon do you plan to go to work?

Yes

No

\_\_\_\_\_ months or \_\_\_\_\_ years

---

2.(a) Did you work at any time during your recent pregnancy?

Yes

No

(b) How many months pregnant were you when you stopped working?

\_\_\_\_\_ months or  Worked until baby's birth

---

3. Did you work at any time between the birth of your new baby and the one before it?

Yes

No

---

4. After you were first married, did you work before your first baby was born?

Yes

No

---

5. Did you work at any time before you were first married?

Yes

No

---

## PART VII. FAMILY INCOME

*The following questions refer to the money income of all members of your family during 1967. Include all income of all the members of the family whom you listed even if they were not living together during 1967.*

1. (a) Did any member of your family earn money from wages or a salary in 1967?

Yes       No

(b) Did any member of your family receive any money from relief, welfare, or ADC from state or local government in 1967?

Yes       No

(c) Did any member of your family receive income from his own farm, business, professional practice, or partnership in 1967?

Yes       No

(d) Did any member of your family receive or earn money in any other way in 1967? (Include unemployment compensation, help from relatives, rent from property, Social Security, V.A. Benefits, dividends, etc.)

Yes       No

Specify \_\_\_\_\_

2. What was the total money received by your husband from all sources in 1967? (Check the box that agrees with your best estimate)

<input type="checkbox"/> None or loss	<input type="checkbox"/> \$4,000-\$4,999
<input type="checkbox"/> Under \$1,000	<input type="checkbox"/> \$5,000-\$6,999
<input type="checkbox"/> \$1,000-\$1,999	<input type="checkbox"/> \$7,000-\$9,999
<input type="checkbox"/> \$2,000-\$2,999	<input type="checkbox"/> \$10,000-\$14,999
<input type="checkbox"/> \$3,000-\$3,999	<input type="checkbox"/> \$15,000 or more

3. Taken together then, what was the total money received by your family from all sources in 1967? (Check the box that agrees with your best estimate)

<input type="checkbox"/> None or loss	<input type="checkbox"/> \$4,000-\$4,999
<input type="checkbox"/> Under \$1,000	<input type="checkbox"/> \$5,000-\$6,999
<input type="checkbox"/> \$1,000-\$1,999	<input type="checkbox"/> \$7,000-\$9,999
<input type="checkbox"/> \$2,000-\$2,999	<input type="checkbox"/> \$10,000-\$14,999
<input type="checkbox"/> \$3,000-\$3,999	<input type="checkbox"/> \$15,000 or more

## PART VIII. PERSON COMPLETING THIS FORM

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

TELEPHONE NUMBER \_\_\_\_\_ DATE OF COMPLETION \_\_\_\_\_

### NOTES AND COMMENTS

# 1972 National Natality Survey



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION  
ROCKVILLE, MARYLAND 20852

NATIONAL CENTER FOR  
HEALTH STATISTICS

The Public Health Service is conducting a national survey of medical care provided to mothers who have babies during 1972. We are trying to learn more about the medical care mothers received during the period before and after the birth of the child. Past studies have shown that medical care is related to the health of a mother and her baby. The information which mothers throughout the country give us will greatly aid in planning better medical care programs for all American women.

You are one of a small sample of mothers being selected to represent all mothers having babies in 1972. Because of this you play an important role in telling us about the medical care you received before and after the birth of your child.

All information you give us, as well as that provided by medical personnel and facilities listed by you in the questionnaire will be held strictly confidential. No information will be released to any other person or agency.

In giving answers to the first part of the form, please name every doctor, hospital, or clinic from which you received any care related to your pregnancy during the period specified in the question. It is necessary that we obtain as complete and accurate a picture as possible of all the medical care you received before and after the birth of your baby. If you do not know an exact answer to any of the questions in the form, give your best estimate. Please complete the form and return it within the next few days in the enclosed postage-free envelope.

Thank you for your cooperation.

Sincerely yours,

Robert A. Israel  
Director, Division of Vital Statistics

NAME OF CHILD	DATE OF BIRTH
---------------	---------------

M

ASSURANCE OF CONFIDENTIALITY - All information which would permit identification of an individual, or of an establishment, will be held confidential, will be used only by persons engaged in and for the purpose of the survey, and will be protected against disclosure in accordance with provisions of 12 CFR Part 1.

VOLUNTARY PARTICIPATION - Completing this form is voluntary, you are under no legal obligation to do so.

## NATIONAL BIRTH SURVEY

### PART I. SOURCES OF MEDICAL CARE

This part is concerned with persons or places which provided medical care to you. If you do not know a complete address, please give us as much information as you can.

1. (a) List the name and address of the doctor, midwife, or other person who delivered your baby.

NAME *(First)* *(Last)*  
ADDRESS *(Number)* *(Street)*  
*(City or Town)* *(State)* *(Zip Code)*

(b) How many times were you seen for medical care by this person during the year before the baby was born? (DO NOT include the delivery episode).

\_\_\_\_\_ Number

3. Did you see a doctor, midwife, or other person for any medical care related to your pregnancy within THREE MONTHS AFTER THE BIRTH OF YOUR BABY?

Yes  No (Go on to Part II)

List the names and addresses of all persons who provided medical care related to your pregnancy within three months after the birth of your baby.

NAME *(First)* *(Last)*  
ADDRESS *(Number)* *(Street)*  
*(City or Town)* *(State)* *(Zip Code)*

NAME *(First)* *(Last)*  
ADDRESS *(Number)* *(Street)*  
*(City or Town)* *(State)* *(Zip Code)*

If more space is needed, continue below.

2. Were you seen by any other persons or places (hospitals, maternity clinics, etc.) for prenatal care (care related to your recent pregnancy)?

Yes  No (Go to question 3)

List the names and addresses of all persons or places which provided prenatal care to you.

A. NAME *(First)* *(Last)*  
ADDRESS *(Number)* *(Street)*  
*(City or Town)* *(State)* *(Zip Code)*

How many times were you seen for prenatal care by the above?

\_\_\_\_\_ (Number)

B. NAME *(First)* *(Last)*  
ADDRESS *(Number)* *(Street)*  
*(City or Town)* *(State)* *(Zip Code)*

How many times were you seen for prenatal care by the above?

\_\_\_\_\_ (Number)

If more space is needed, continue below.



## PART II. INFORMATION ON HEALTH INSURANCE

In this part, we are interested in any health insurance you or your husband may have had during the TWELVE MONTHS before the baby was born.

1. Did you have any kind of health insurance for hospital or doctor bills at any time during the twelve months before your baby was born?

Yes       No (Go to question 6)

2. Did you have any kind of health insurance at the time your baby was born?

Yes       No

3. (a) Did health insurance pay for any part of the medical care you received during your pregnancy PRIOR TO the delivery?

Yes       No       No medical care bill during pregnancy

(b) What part of the medical bills during pregnancy did your insurance pay?

1/4 or less       over 1/2 to 3/4  
 over 1/4 to 1/2       over 3/4

4. (a) Did health insurance pay any part of the hospital bill when your baby was born?

Yes       No       No hospital bill

(b) What part of the hospital bill did your insurance pay?

1/4 or less       over 1/2 to 3/4  
 over 1/4 to 1/2       over 3/4

5. (a) Did health insurance pay any part of the doctor's bill for delivering your baby?

Yes       No       No doctor's bill

(b) What part of the doctor's bill did your insurance pay?

1/4 or less       over 1/2 to 3/4  
 over 1/4 to 1/2       over 3/4

6. (a) Did any organization or agency (such as the Armed Forces, Medicaid, welfare, lodges, unions, etc.), pay for or provide any part of the medical services connected with pregnancy or birth?

Yes       No

(b) What part of the medical services were paid for or provided by the organization or agency?

1/4 or less       over 1/2 to 3/4  
 over 1/4 to 1/2       over 3/4

(c) What is the name of the agency or organization?

(GO ON TO PART III)

## PART III. INFORMATION ABOUT YOU AND YOUR CHILDREN

We are interested in the outcomes of all the pregnancies you have ever had, even if they occurred before your present marriage. Please INCLUDE the child listed on the front of the questionnaire.

1. How many children have you ever had? (Count all those that were born ALIVE to you AT ANY TIME.)

Number
--------

2. Have any of these children died? (DO NOT count miscarriages or babies that were born dead.)

Yes       No (Go to question 3)

Please list below, the name, sex, and dates of birth and death of each such child.

NAME OF CHILD (First)	NAME OF CHILD (Middle)		SEX			DATE OF BIRTH			DATE OF DEATH		
	M	F	Mo.	Day	Year	Mo.	Day	Year			

3. Were any of your children living away from you when the child listed on the front of the questionnaire was born? (For example, usually living with relatives, adopted by someone else, in the Armed Forces, etc.) Do not include children who were away at school or college.

Yes       No (Go to question 4)

Please list below the name, sex, and date of birth of each such child.

NAME OF CHILD (First)	NAME OF CHILD (Middle)		SEX		DATE OF BIRTH		
	M	F	Mo.	Day	Year		

4. (a) Have you ever had a stillbirth? (That is, a baby that was born dead)

Yes       No (Go to question 5)

(b) How many have you ever had?

Number
--------

(c) Please give the date of your last stillbirth. \_\_\_\_\_  
(Mo. Day Year)

**PART III. Continued**

5. (a) Have you ever had a miscarriage? (DO NOT include any stillbirth counted in Question 4)

Yes       No (Go to question 6)

↓  
(b) How many have you ever had? 

Number

(c) Please give the date of your last miscarriage. 

<i>Mo.</i>	<i>Day</i>	<i>Year</i>

6. Thinking back, just before you became pregnant with your new baby, did you want to become pregnant at that time?

- I wanted this pregnancy at an earlier time, as well as at that time.
- I wanted to become pregnant at that time.
- I did not want to become pregnant at that time, but I wanted another child sometime in the future.
- I did not want to become pregnant at that time, or at any time in the future.

7. Do you expect to have more children?

Definitely yes }  
 Probably yes } → How many more children do you think you will probably have?

Probably no  
 Definitely no

Number

(GO ON TO PART IV)

**PART IV. INFORMATION ABOUT YOU AND YOUR HUSBAND**

(Check ONE box only)

1. Is this your first marriage?

Yes → Please give the date of your marriage 

<i>Mo.</i>	<i>Day</i>	<i>Year</i>

No {  
  Please give the date of your first marriage 

<i>Mo.</i>	<i>Day</i>	<i>Year</i>

  
  Please give the date of your present marriage 

<i>Mo.</i>	<i>Day</i>	<i>Year</i>

2. (a) What is the highest grade of regular school (elementary school, high school, two year or four year college or university) that you COMPLETED? (DO NOT include business or trade schools, or other specialized training)

(Circle the highest grade of regular school completed)

0    1   2   3   4   5   6   7   8    9   10   11   12    13   14   15   16    17   18+

None    Elementary school    High school    University or college    Graduate school

(b) Other specialized training;

Yes       No  
↓  
Specify: \_\_\_\_\_  
(trade schools, beauty-barber college, hospital schools, etc.)

Circle years completed  
Less than one    1    2    3    or more

3. (a) What is the highest grade of regular school (elementary school, high school, two-year or four-year college or university) that your husband COMPLETED? (DO NOT include business or trade schools or other specialized training.)

(Circle the highest grade of regular school he completed)

0    1   2   3   4   5   6   7   8    9   10   11   12    13   14   15   16    17   18+

None    Elementary school    High school    University or college    Graduate school

(b) Other specialized training;

Yes       No  
↓  
Specify: \_\_\_\_\_  
(trade schools, beauty-barber college, hospital schools, etc.)

Circle years completed  
Less than one    1    2    3    or more

(GO ON TO PART V)



**PART VI. FAMILY INCOME**

The following questions refer to the money income of members of your family during the TWELVE MONTHS before the baby was born. Include all incomes of members of the family whom you listed even if they were not living together during part of the twelve months. Include all income from wages, salaries, investments, property, Social Security, welfare, unemployment compensation, help from relatives, etc.

1. What was the income (total income before deductions for taxes, bonds, dues, insurance, etc.) received by YOUR HUSBAND from all sources during the twelve months before the baby was born? (This income should include money from wages, salaries, commissions, bonuses, tips, own business, professional practice, farm, unemployment compensation, etc.) If exact amount is not known, please check your best estimate.

(Check one)

- |  |   |
|--|---|
| <input type="checkbox"/> none or under \$1,000 | <input type="checkbox"/> \$5,000 to \$6,999   |
| <input type="checkbox"/> \$1,000 to \$1,999    | <input type="checkbox"/> \$7,000 to \$9,999   |
| <input type="checkbox"/> \$2,000 to \$2,999    | <input type="checkbox"/> \$10,000 to \$14,999 |
| <input type="checkbox"/> \$3,000 to \$3,999    | <input type="checkbox"/> \$15,000 to \$24,999 |
| <input type="checkbox"/> \$4,000 to \$4,999    | <input type="checkbox"/> \$25,000 or more     |

2. What was the total family income (before deductions for taxes, bonds, dues, insurance, etc.) received by YOURSELF, YOUR HUSBAND, and ALL OTHER LISTED FAMILY MEMBERS from all sources during the twelve months before the baby was born? (This income should include money from wages, salaries, commissions, bonuses, tips, own business, professional practice, farm, unemployment compensation, etc.) If exact amount is not known, please check your best estimate.

(Check one)

- |  |   |
|--|---|
| <input type="checkbox"/> none or under \$1,000 | <input type="checkbox"/> \$5,000 to \$6,999   |
| <input type="checkbox"/> \$1,000 to \$1,999    | <input type="checkbox"/> \$7,000 to \$9,999   |
| <input type="checkbox"/> \$2,000 to \$2,999    | <input type="checkbox"/> \$10,000 to \$14,999 |
| <input type="checkbox"/> \$3,000 to \$3,999    | <input type="checkbox"/> \$15,000 to \$24,999 |
| <input type="checkbox"/> \$4,000 to \$4,999    | <input type="checkbox"/> \$25,000 or more     |

(GO ON TO PART VII)

**PART VII. PERSON COMPLETING THIS FORM**

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

*(Number)*

*(Street)*

*(City or Town)*

*(State)*

*(Zip Code)*

TELEPHONE NO. \_\_\_\_\_

DATE OF COMPLETION \_\_\_\_\_

*(Month, day, year)*

NOTES AND COMMENTS

## VITAL AND HEALTH STATISTICS Series

- Series 1. Programs and Collection Procedures.*—Reports which describe the general programs of the National Center for Health Statistics and its offices and divisions and data collection methods used and include definitions and other material necessary for understanding the data.
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National Center for Health Statistics  
Public Health Service  
Hyattsville, Md. 20782

**DHEW Publication No. (PHS) 78-1918**  
**Series 21 - No. 32**

**NCHS**

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service  
National Center for Health Statistics  
3700 East-West Highway  
Hyattsville, Maryland 20782

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