

**VITAL and HEALTH STATISTICS**  
DATA FROM THE NATIONAL VITAL STATISTICS SYSTEM

# Seasonal Variation of Births

**United States, 1933-63**

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Seasonal pattern of births in the United States for 1933-63, by color, geographic region, live-birth order, age of mother, and legitimacy status. Changes in pattern over time. International comparisons. Discussion of factors associated with seasonality of births and possible causes. Revised birth rates and fertility rates by month and color. Observed rates adjusted for seasonal variation, based on new populations and new method of seasonal adjustment.

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Washington, D.C.

May 1966

U.S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE  
John W. Gardner  
Secretary

Public Health Service  
William H. Stewart  
Surgeon General



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## NOTES TO TABLES

1. *Alaska and Hawaii.*—All tables showing time series include data for Alaska beginning 1959, Hawaii 1960.
2. *50-percent sample.*—All data for the years 1951-54 and 1956-63 are derived from 50-percent samples of birth records. Statistics for these years were obtained by multiplying the sample figure by 2.
3. *Seasonal adjustment.*— Except where indicated, time series have been seasonally adjusted by the Bureau of Labor Statistics Seasonal Factor Method (1964). Prior to seasonal adjustment, births were corrected for the varying number of days in each month. Seasonal indexes for the United States are based on birth rates per 1,000 population; for regions on numbers of live births.
4. *Adjustment for underregistration of births.*— All rates are based on births adjusted for underregistration.
5. *Place of occurrence and residence.*—Births are classified by place of occurrence for 1933-41 and by place of residence for 1942-63.
6. *Population bases.*—Rates shown in this report are based on populations that include the Armed Forces overseas for 1941-46 and the Armed Forces stationed in the United States for each year. They exclude the Armed Forces overseas for other years and exclude other persons living abroad for all years. All rates are on an annual basis per 1,000 estimated population for specified month.
7. *Race and color not stated.*—Data on births by color are not available for New Jersey for 1962 because this State did not ask for the race of either parent on a revision of its birth certificate introduced at the beginning of 1962. The color item was restored in the latter part of 1962, but the certificates without this item were used for most of 1962 and 1963. Therefore, all tables showing data by color for 1962 and 1963 exclude data for residents of New Jersey.

*IN THIS REPORT the seasonal pattern of births in the United States since 1933 is described. This report compares the pattern of births in the United States with those of other countries and discusses factors that may be associated with seasonality. The use of seasonal factors is illustrated in time series of seasonally adjusted birth rates and fertility rates for the United States for the period 1933-63.*

*There was an average seasonal difference during the most recent 10-year period of about 15 percent between the peak month of September and the months with the fewest births, April and May. In the South the seasonal difference was over 20 percent, while in the Northeast the variation was somewhat less than the national average. During the past 30 years seasonality of births has increased, although the shape of the distribution has remained stable.*

*Seasonal variation of births does not appear to be related to season of marriage, to age of mother, or to birth order of the child; but this report suggests that socioeconomic status of parents and climate may affect season of birth.*

*A comparison of white and nonwhite fertility trends by month, free from seasonal variation, shows that the fertility rate for nonwhite women responded less to the demobilization after World War II than that for white women. Since 1957, cyclical interruptions in the downward trend in fertility have not been experienced simultaneously by white and nonwhite women.*

#### SYMBOLS

Data not available-----	---
Category not applicable-----	...
Quantity zero-----	-
Quantity more than 0 but less than 0.05-----	0.0
Figure does not meet standards of reliability or precision-----	*

# SEASONAL VARIATION OF BIRTHS

Harry M. Rosenberg, *Division of Vital Statistics*

## INTRODUCTION

During the period 1954-63 the monthly number of births in the United States exhibited a relatively stable seasonal pattern characterized by a trough in the spring and a peak in the fall. There was, on the average, a seasonal difference of about 15 percent in the monthly number of births—from a low of about 328,000 births in April and May to a high of about 377,000 in September.

January-----	335,000
February-----	343,000
March-----	340,000
April-----	328,000
May-----	328,000
June-----	341,000
July-----	361,000
August-----	371,000
September-----	377,000
October-----	358,000
November-----	346,000
December-----	345,000

This report is concerned with a description of the seasonal pattern of births in the national birth-registration area since 1933, when data for the country as a whole were first available. Seasonality of births will be described for the four geographic regions and in terms of a number of variables, including color, age of mother, live-birth order, and legitimacy. In addition, some of the theories set forth to explain the seasonal variation of births will be discussed in the light of the most recent data available from the United States and other countries. A concluding section

shows how knowledge about the seasonal distribution of births is useful in describing and interpreting changes in monthly birth rates and fertility rates. This report supplements two earlier reports prepared by this office.<sup>1 2</sup>

Throughout this report, the seasonal distribution of births is discussed in terms of an index, with the average monthly number of births for a year equaling 100.0. Births have been adjusted for the varying number of days in each month.

Except where indicated, the seasonal pattern (also referred to as the "seasonal component") has been derived by using a method developed recently by the U.S. Bureau of Labor Statistics—the BLS Seasonal Factor Method (1964)—for seasonally adjusting time series. (Specifications of the BLS Seasonal Factor Method are available upon request from the Deputy Associate Commissioner for Systems Analysis, U.S. Bureau of Labor Statistics, Washington, D.C., 20210.) This method, summarized in the Appendix, yields results similar to those of other methods that are based on the concept of the "ratio to moving average."<sup>3</sup> Data in this report were seasonally adjusted on the electronic computer (IBM 1401) in the National Center for Health Statistics.

## SEASONAL PATTERN OF BIRTHS

### Seasonality in the United States

In 1963 the seasonal distribution of births in the United States exhibited a bimodal pattern with a minor peak in February and a major peak in September. For 4 months of the year (July through October) the number of births was above the monthly average; for the remainder of the

year the monthly indexes were below the annual average of 100.0. April and May were the months with the fewest births.

Although there has been a gradual diminution in the February peak and an accentuation of the September peak, this distribution has exhibited no major changes in its modal points since 1933 (table 1 and fig. 1). In fact, the entire distribution appears to have pivoted counterclockwise around the month of July, which has shown relatively little variation in its seasonal index during the past 31 years. During this period April and May replaced November and December as the months with the smallest proportion of annual births.

Shifts in the monthly pattern of births, expressed in terms of seasonal indexes (tables 1 and 2), exhibit a general decrease in the proportion of births occurring during the first half of the year and a corresponding increase in the

latter half. This is shown in the following table.

Month	1963	1953	1943	1933
January-----	96.4	97.5	99.8	100.0
February-----	98.5	99.5	101.3	102.7
March-----	98.0	97.3	98.8	101.4
April-----	95.0	93.2	95.1	97.1
May-----	94.2	93.1	93.7	97.7
June-----	97.3	99.0	98.7	99.1
July-----	103.2	104.8	103.2	103.5
August-----	106.9	106.7	105.6	104.5
September----	108.6	107.9	106.6	105.3
October-----	102.9	102.8	101.4	98.7
November-----	99.4	99.3	98.6	95.8
December-----	99.6	98.8	97.2	94.7

Since 1933 there has also been a gradual increase in the amplitude of the distribution; that is, seasonal fluctuations over the past 31

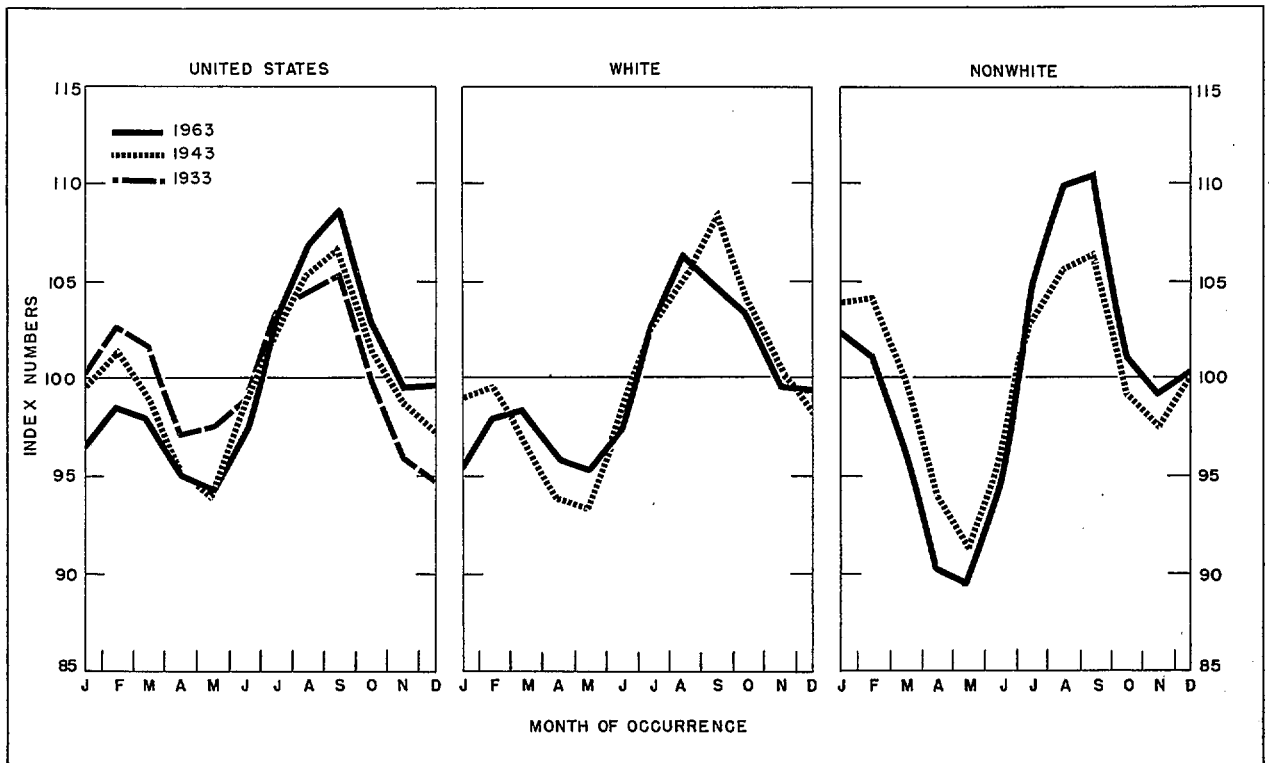


Figure 1. Seasonal indexes of live births, by color: United States, 1933, 1943, and 1963.

(Based on data in tables 1 and 2)



years have tended to increase rather than to decrease. A measure of the amplitude of these fluctuations around the annual average of 100.0 is the standard deviation (tables 1 and 2). In 1933 the standard deviation of the seasonal pattern for the country as a whole was 3.5. This means that two-thirds of the monthly variation in the number of births was within 3.5 percent of the monthly average for the year. The standard deviation of the monthly number of births increased to 4.5 by 1963.

Figure 1 shows the seasonal distribution of white and nonwhite births in 1943 and 1963; prior to 1942, monthly data for white and nonwhite births were not available. The seasonal pattern of white and nonwhite births combined is in effect an average pattern weighted proportionately by the monthly number of white and nonwhite births. In 1943 white births constituted about 87 percent of all annual births; in 1963, about 81 percent. Consequently, the pattern of total births resembled very closely the distribution of white births, although the impact of nonwhite births was evident in the low spring trough for all births.

Changes in the amplitude of the white and nonwhite seasonal distributions since 1943 have followed different courses. Seasonality of white births has tended to remain relatively constant with a standard deviation of about 4.5. The amplitude of the nonwhite seasonal pattern, in contrast, increased rapidly from 4.8 in 1943 to 6.5 in 1953; since 1953 there has been little change in the average magnitude of monthly fluctuations in births as measured by the standard deviation (fig. 2).

### Color and Geographic Region

When seasonality is examined in terms of both color and geographic area, certain systematic differences emerge; but the basic features of the distribution described above are preserved. Figure 3 shows the average seasonal distribution by color for the four geographic regions from 1954 through 1963.

Seasonality in the South, the region with the greatest monthly fluctuations in births, was over twice that of the Northeast, the region with the least seasonality. For these regions the standard deviations of seasonal indexes for 1954-63 were,

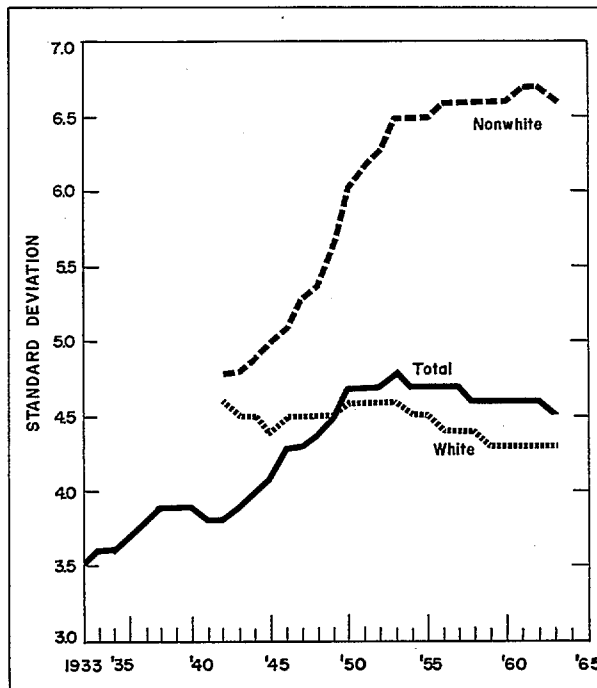


Figure 2. Standard deviations of seasonal indexes of births, by color: United States, 1933-63.

(Data by month by color not available prior to 1942. Based on data in tables 1 and 2)

respectively, 7.3 and 3.0 as compared with 4.6 for the United States as a whole. The white and nonwhite patterns in the South closely resembled each other in shape and amplitude; in the Northeast, in contrast, seasonality of white and nonwhite births differed considerably; the monthly variation of nonwhite births was 68 percent greater than that of white births (table A).

In every region but the West nonwhite births exhibited more seasonality than white births; in the West seasonality of nonwhite births had a standard deviation of 3.2 as compared with 3.8 for white births. It might be noted that nonwhite births in the West included a larger proportion of American Indian, Japanese, and Chinese than in the other regions.

### International Comparisons

The seasonal pattern of births has been observed with interest in the United States and in other countries for many years. For example,

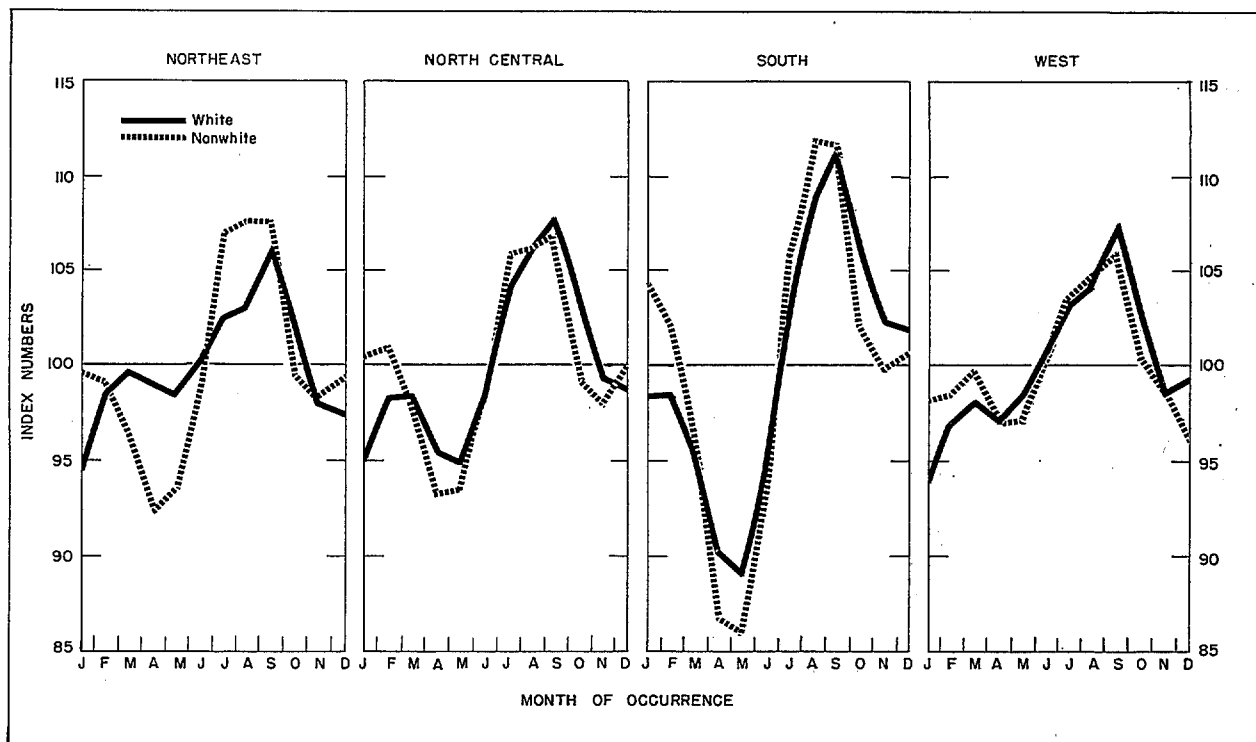


Figure 3. Average seasonal indexes of live births, by color for each geographic region: United States, 1954-63.

(Based on data in tables 1 and 2)

Table A. Average standard deviations of seasonal indexes of live births, by color: United States and each geographic region, 1954-63

(Based on data in tables 1 and 2)

Area	Total	White	Nonwhite
United States-	4.6	4.4	6.6
Northeast-----	3.0	3.1	5.2
North Central---	4.4	4.4	4.6
South-----	7.3	7.1	8.4
West-----	3.7	3.8	3.2

Sorokin cites a number of 19th century studies which describe this phenomenon in Europe.<sup>4</sup> In recent years, availability of increasingly reliable birth statistics for many countries throughout the world has made possible international comparisons of seasonality. For illustration, the

seasonal distributions of births for the United States and several other countries are compared in figure 4 for recent years.<sup>5</sup> The distributions are shown in terms of month of birth and month of conception by attributing birth occurrences to conceptions 9 months earlier.

Monthly data for most of these countries are on the basis of date of occurrence; for Mexico and Chile, the exceptions, births have been compiled by date of registration rather than by occurrence. This may introduce some distortion into the comparisons since there is frequently a lag of up to 2 months between the occurrence and the registration of the birth. In Mexico the time allowed for registration by law is 15 days if the father registers the birth and 40 days if the mother registers the birth. In Chile the interval allowed for registration is 60 days. In both countries registration is believed to be incomplete.<sup>6</sup> Nevertheless, with due regard for their limitations, data for these countries are

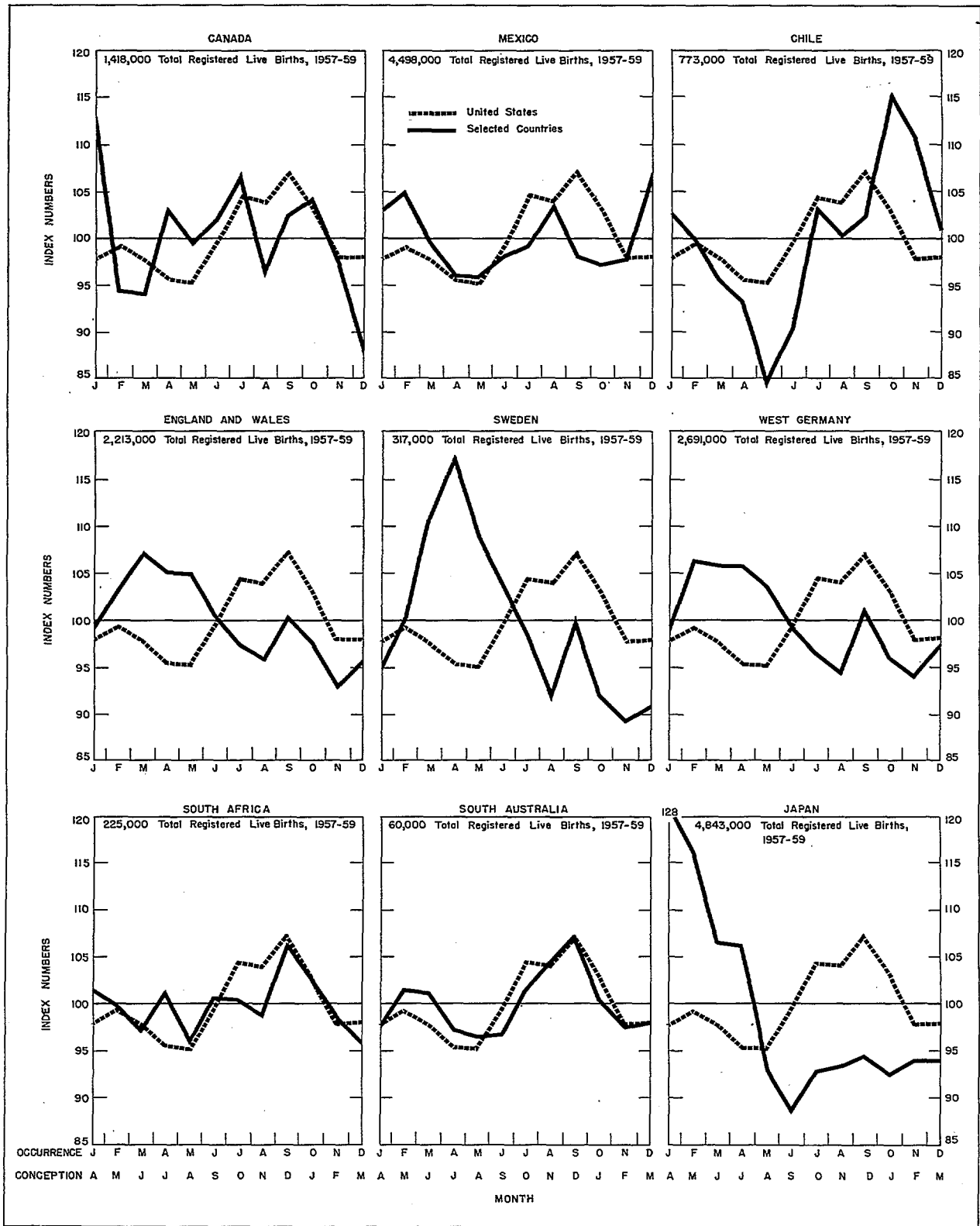


Figure 4. Seasonal indexes of live births: United States and selected countries, 1957-59.

(About 12,858,000 live births were registered in the United States during 1957-59)<sup>5</sup>

included in the belief that their general configurations are useful for comparative purposes. To ensure stability in the seasonal patterns, the figures are based on a compilation of data for the 3 years 1957-59. The total number of births during this period for each country is shown.

In terms of months of conception, a high point occurs in the United States during the period October-January and a secondary peak occurs in March; the low period of conceptions resulting in live births 9 months later is during the summer months of June, July, and August. The uniqueness of this pattern (evident from the charts) was recently pointed out by Takahashi<sup>7</sup> and Cowgill.<sup>8</sup> Countries bordering the United States to the north and south (Canada and Mexico) apparently do not share a common pattern with the United States. In Canada, where the seasonal pattern during 1957-59 showed large monthly fluctuations, the peak month of conception was April and the low month was March. This phenomenon, attributed to the Lenten Season and Easter, has been noted by Takahashi<sup>7</sup> for Italy, Yugoslavia, and Greece. The absence of this phenomenon in the Northeast Region of the United States (fig. 3) and in Mexico and Chile, all of which have large Catholic populations, is of interest. The low period of conceptions in Mexico during the summer months of July and August and the minor peaks in March and November coincide roughly with the pattern of the United States; the suggested similarities, however, may be largely a function of registration practices in Mexico.

In England and Wales, Sweden, and West Germany seasonality of conceptions associated with live births contrasted strikingly with the pattern of the United States. The patterns were very nearly reversed, with peaks in conception rates occurring during the summer months in Europe, when rates were lowest in the United States, and with below-average rates in Europe from about October through January, when rates achieve a maximum in the continental United States. A feature found among the European countries, Canada, Australia, and South Africa is the secondary peak in births occurring in September and associated with December conceptions; this coincides with the period of maximum conceptions in the United States and sup-

ports the often stated hypothesis that in industrial countries conceptions are highly correlated with the principal holidays. For the Union of South Africa, data refer only to the European or white population, as birth registration of natives is not compulsory in the rural areas where the majority live.<sup>6</sup>

Seasonality paralleling that of the United States prevails in several countries of the Southern Hemisphere, where climatic conditions are roughly the reverse of those in the Northern Hemisphere. Data for Chile, South Africa, and South Australia show periods in which conception rates are above the annual average occurring in the December through February period. Confidence in the strong similarity between the patterns of South Australia and of the United States is weakened by the small frequencies upon which South Australian seasonality is based. Unfortunately, data on births by month of occurrence for Australia as a whole were available only for 1962, not for the period 1957-59; in general, these support the pattern for South Australia, particularly the December peak in conceptions.

For Japan, although the statistics are allegedly on an occurrence basis, the unusually high conception rates occurring in April have been attributed to birth-registration practices. Takahashi stated that "In Japan previously age was given at every New Year. Parents do not like to notify the real date of birth especially when the girl is born in late December, because younger age is profitable for marriage when she becomes adult."<sup>7</sup>

The data for the countries above illustrate the diverse seasonal patterns of birth and conception. No doubt within these countries, as in the United States, regional patterns depart from the pattern of the country as a whole. Kosambi and Raghavachari,<sup>9</sup> in discussing seasonality of births in India, stated that ". . . there is no such thing as a standard India birth curve." In addition, they found that the villages where the greater part of the people of India dwell showed an entirely different seasonal variation from that of the cities they surrounded. They suggested that if the data for Europe were broken down regionally for separate economic classes considerable internal variation would be found.

## Factors Associated With Seasonality of Births

A number of serious attempts have been made to establish the factors underlying the seasonal distribution of births observed in the United States and abroad. Attention in recent years has focused on what might be referred to as "environmental" and "social" agents. Falling into the environmental category are climatic factors such as temperature, barometric pressure, and nutritional patterns; social factors include season of marriage, date of occurrence of major holidays, and socioeconomic status of parents.

The relationship between month of marriage and month of first birth in the United States, if it exists at all, seems to be a very weak one. Figure 5 illustrates this relationship by showing the average seasonal distribution of marriages by month (1960-62) and the average seasonal distribution of first births (1961-63) 10 months later. Assuming that the modal interval between marriage and first births is 10 months for recently married women,<sup>10</sup> there is essentially no correlation between the two series. Waggoner and Schachter,<sup>2</sup> who examined this relationship in an earlier report, found that the correlation between month of marriage and month of first birth did not reach a maximum until the interval between the two events was extended to 14 months. The correlation at 14 months (0.63) was significant, but it did not indicate a high degree of association between the two variables since it explained only about 40 percent of the variation in the number of births.

Month	Marriages	First births 10 months later
January-----	74.1	97.7
February-----	84.2	96.9
March-----	72.9	94.7
April-----	90.7	97.4
May-----	92.7	98.7
June-----	159.6	96.6
July-----	102.0	96.2
August-----	117.5	98.8
September-----	116.8	104.6
October-----	93.6	107.4
November-----	96.6	109.3
December-----	99.2	101.8

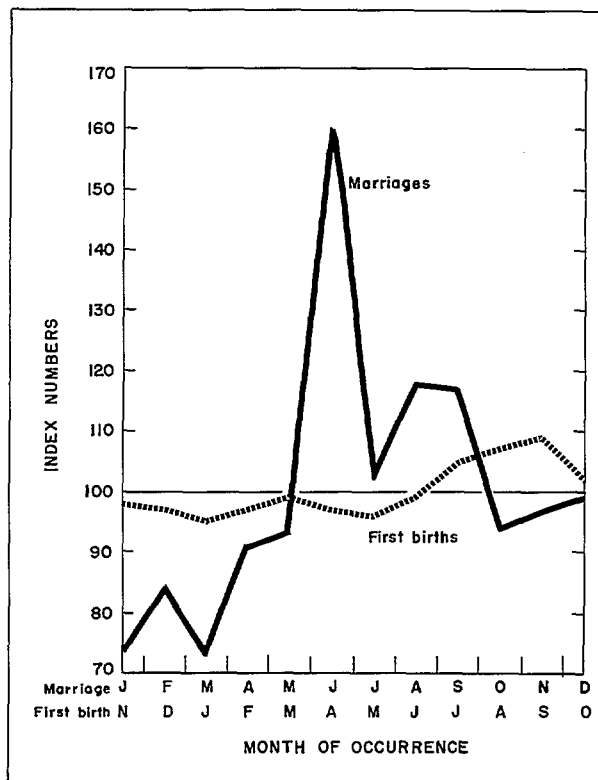


Figure 5. Seasonal indexes of marriages (1960-62) and of first births (1961-63): United States.

(Seasonal indexes of marriages by BLS Seasonal Factor Method. Indexes of first births from table B)

Further weakening the assumed relationship between seasonality of marriages and births is the fact that second births and births of higher orders also attain a maximum correlation with marriages at an interval of 14 months and that the strength of these correlations is of about the same magnitude as between marriages and first births.<sup>2</sup> This is not surprising in view of the highly significant correlation (0.95) between seasonality of first births and births of second or higher orders for the United States during 1961-63. In fact, when the distribution of births by month is cross-classified by age of mother and live-birth order, the familiar bimodal pattern is maintained for all categories (table B).

Additional evidence for the weak relationship between season of marriage and season of birth in the United States is seasonality of births occurring in wedlock compared with sea-

Table B. Seasonal indexes of births, by live-birth order and age of mother: United States, 1961-63

(Ratio of monthly births to monthly average for year taken as 100.0)

Live-birth order and age of mother	Month					
	Jan.	Feb.	Mar.	Apr.	May	June
First births-----	94.7	97.4	98.7	96.6	96.2	98.8
10-24 years-----	94.5	96.9	98.7	96.4	96.5	99.0
25-49 years-----	95.7	99.3	99.1	97.4	94.9	97.7
Second births-----	96.0	99.0	98.6	96.9	96.8	98.7
10-24 years-----	96.0	98.3	97.4	95.3	95.9	98.6
25-49 years-----	96.1	100.2	100.6	99.5	98.4	98.9
Third births and higher-----	99.4	100.8	98.9	94.7	93.6	95.8
10-24 years-----	98.4	99.3	97.0	93.7	93.4	98.2
25-49 years-----	99.8	101.4	99.6	95.1	93.7	95.0
Live-birth order and age of mother	Month					
	July	Aug.	Sept.	Oct.	Nov.	Dec.
First births-----	104.6	107.4	109.3	101.8	97.7	96.9
10-24 years-----	105.1	107.8	109.7	101.4	97.2	96.9
25-49 years-----	102.1	105.5	107.3	103.9	100.0	97.1
Second births-----	103.1	105.4	106.6	103.0	98.4	97.6
10-24 years-----	104.5	106.7	107.3	102.8	98.8	98.4
25-49 years-----	100.6	103.3	105.3	103.4	97.7	96.2
Third births and higher-----	102.3	106.2	107.8	102.5	98.9	99.0
10-24 years-----	104.3	107.9	108.5	102.0	98.5	98.7
25-49 years-----	101.6	105.6	107.6	102.7	99.0	99.0

sonal variation of births occurring out-of-wedlock. For the 39 birth-registration States for which data on legitimacy were available in 1963, the distributions of legitimate births and illegitimate births were virtually identical, as shown below:

Month	Legitimate births	Illegitimate births
January-----	98.5	98.1
February-----	99.1	99.2
March-----	97.8	98.1
April-----	94.0	95.0
May-----	94.4	95.1
June-----	97.5	97.8
July-----	103.7	103.5
August-----	106.8	106.2
September-----	109.4	108.8
October-----	103.3	102.9
November-----	97.8	97.6
December-----	97.7	97.7

Because white births accounted for a larger proportion of legitimate births than of illegitimate births, the seasonal indexes above were standardized with respect to color to facilitate comparison.

It is also difficult to establish a strong relationship between season of marriage and season of birth for other countries. Takahashi<sup>7</sup> pointed out that the conception rates for England and Wales and for Germany, which reach peaks in spring, do not accompany the peak month of marriages (August in Germany and May in England and Wales). Chang, Chan, Low, and Ng,<sup>11</sup> who found a high correlation in season of birth for births of different orders in Hong Kong, also stated that the influence of month of marriage on month of birth is a weak one.

The relation between conceptions and major holidays was mentioned briefly in connection with the seasonal pattern of births in Canada which, Takahashi suggested, is associated with the Lenten season. However, the validity of the relationship must be considered in the light of data from other countries with large Catholic populations such as Spain, Portugal, and Chile, in which the apparent association with the Lenten season is absent. According to Kosambi and

Raghavachari,<sup>9</sup> there is no connection between the conception rate and major holidays in India, although one of the two major Hindu holidays, Holi, is ". . . definitely of an orgiastic character, being the ancient spring festival and Saturnalia." They found that according to their data for 1930-39 conceptions reached peak levels at the two solstices, but that there were no corresponding solstitial festivals.

Several recent studies have attempted to correlate climatic conditions with monthly rates of conception and have suggested possible mechanisms through which the physical environment could influence the frequency of human reproduction. Using data for Hong Kong for the 10 years 1952-61, Chang<sup>11</sup> found a strong negative correlation (-0.97) between monthly conception rates and temperature. For Para I women, the correlation was -0.96; Para II, -0.87; Para III and over, -0.90; differences which, by analysis of variance, were found to be statistically insignificant. The magnitude of the fluctuations in the conception rate in Hong Kong are considerably greater than those in the United States. In Hong Kong summer conception rates are about 30 percent lower than rates in the winter;<sup>11</sup> in this country differences averaged about 15 percent during the period 1954-63. Climate was also indicated as an important factor in variations of the conception rate in India. Kosambi and Raghavachari<sup>9</sup> stated that for the urban population of India, season of conception ". . . depends entirely upon the climate, which in India is dominated and characterized by the rainy season of four months."

The relation between climate and conception rates is consistent for a number of countries. In the Northern Hemisphere Takahashi<sup>7</sup> found that conception rates varied roughly with temperature, with peaks in the conception rate from winter through spring to summer as one moves from countries of the Torrid Zone to the Northern Subfrigid Zone. The peak of the conception curve usually appears ". . . when monthly average temperature is up to about 20° C, which is fit for the physiological optimum."

In the United States, a relationship between temperature and conception rates has been noted in several recent studies. Takahashi<sup>7</sup> suggested that the pronounced trough in the conception curve

is greatest in the South Region during July and August because of the hot and humid climate during this period. The strength of the relationship suggested by Takahashi is illustrated in figure 6 which shows average monthly temperatures (expressed as indexes) for 1931-60 for Mobile, Alabama, and conception rates for the South Region for 1954-63. In the absence of climatic data for the entire region, it is assumed that the monthly temperatures for one city in a geographic region are reasonably representative of the variation in temperature experienced by the population of the entire region. The correlation between temperatures and conception rates for Mobile and the South is highly significant,  $-0.86$ , accounting for over 70 percent of the variation in monthly conception rates. Correlations between temperatures in selected cities and conception rates in the geographic regions which the cities are assumed to represent are shown below:

New York and Northeast -----	-0.24
Chicago and North Central -----	-0.62
Mobile and South -----	-0.86
Los Angeles and West-----	-0.30

The relationship between temperatures and conception rates in the United States was also examined by Pasamanick, Dinitz, and Knoblock<sup>12</sup> who found that the spring "dip" in births corresponded to summer temperatures in the United States. "Instead of the normal 8.3 percent expectancy, the percentage of April white male births, for example, was 7.8 percent in the United States, 6.7 in Mississippi, 8.0 in Wisconsin, 8.2 in Maine, and 8.5 in Washington."<sup>12</sup>

While statistical indications for a causal relation between temperature and conception rates are indeed compelling, departures from this simple relationship suggest that factors other than temperature account for part of the variance in monthly conception rates and birth rates. For example, in the United States the bimodality and asymmetry of the birth curve are in contrast with the single peak and symmetry of the monthly variations in temperature. It is questionable, too, whether differences in climate alone can explain why in the United States conceptions reach peak levels during October-January, while in much of continental Europe the

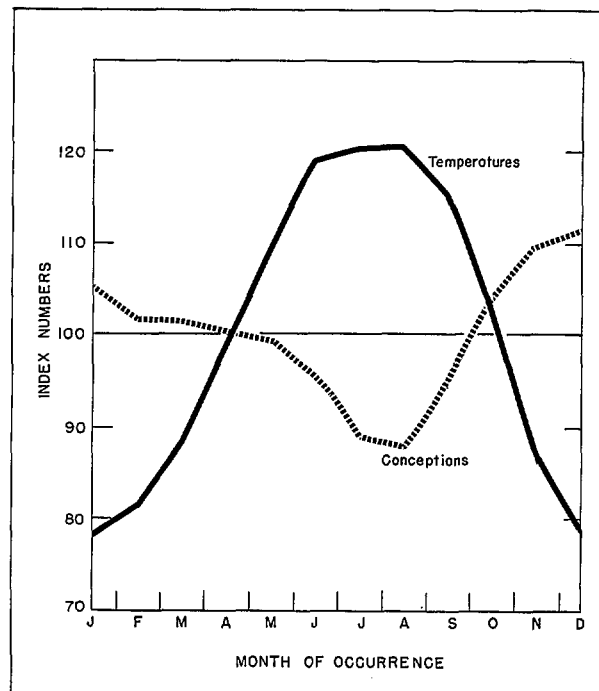


Figure 6. Seasonal indexes of mean monthly temperatures for Mobile, Alabama (1931-60) and of conceptions for the South Region (1954-63): United States.

(Temperatures from U.S. Department of Commerce, Weather Bureau records. Conceptions refer to births 9 months later)

peak period is from May through August.

Another reason for exercising caution in interpreting these data is methodological. In this study the common practice was adopted of equating live births with conceptions 9 months earlier. In fact, infants born during a particular period reflect a range of gestational ages. In 1964 an estimated 23 percent of all live births occurred during the 40th week of gestation; 71 percent occurred during the interval 38-41 weeks of gestation. These estimates are based on data from Baltimore, Maryland; New York City; the District of Columbia; and California—areas for which gestational length can be determined from information given as the date of the mother's last normal menstrual period.

Moreover, there is evidence that gestational length varies somewhat with month of conception.<sup>13</sup> The extent to which the seasonal distribution of live births departs from the pattern of con-



ceptions 9 months earlier should be examined in future studies.

## Causes of Seasonality in

### Births and Conceptions

Statistical associations such as those described above suggest but do not demonstrate a direct interaction between environmental or social factors and monthly variations in conception rates. A number of studies have hypothesized possible modes of interaction between these variables, but, as yet, no studies have systematically investigated the suggested causes of seasonal variation in conception rates of humans.

The direct effect of high summer temperatures on conception rates has been suggested by Pasamanick,<sup>12</sup> who stated that high temperatures may reduce sexual activity or adversely affect the viability of sperm, thereby reducing the risk of conceptions. Chang<sup>11</sup> stated that female fertility is also affected by high temperatures, which increase the incidence of amenorrhea. Increased fetal death rates during the summer months have also been cited as a possible explanation for the consistent depression in the number of births associated with summer conceptions in the United States. Pasamanick, Dinitz, and Knoblack<sup>14</sup> stated that "...prenatal stress via the hypothalamic-pituitary-adrenocortical system and dietary deficiencies during the early critical period of fetal development, the first trimester, result in fetal deaths in animals."

Consistent with the above hypotheses are the findings of a study on seasonal variation by socioeconomic status. Using census tract of residence of mother as the criterion of socioeconomic status, Pasamanick<sup>12</sup> found that seasonality varied inversely with socioeconomic data. "As predicted, the amount of over-representation of summer births varies inversely with socioeconomic status . . . the highest socioeconomic status category exhibits the smallest monthly variability in births."

Pasamanick<sup>12</sup> suggested several factors—environmental and social—which may operate to create these monthly disparities. Among them are the ability of the higher socioeconomic status

groups to modify by air conditioning the effects of climate. With better nutritional practices they are also able to minimize dietary deficiencies that might affect fetal mortality. Finally, Pasamanick suggested that family planning practices resulting from more frequent and effective utilization of birth-control devices may help randomize the occurrence of conceptions.

## SEASONALLY ADJUSTING BIRTH RATES AND FERTILITY RATES

Information on the seasonal distribution of births, expressed as indexes, can be useful in describing and interpreting changes in the birth rate on a monthly basis. To ascertain the underlying trend in a time series of monthly birth rates the observed data can be "seasonally adjusted"; that is, the seasonal component can be removed from the observed rates. Knowledge of the trend on a monthly basis, free from distortion due to large seasonal fluctuations, facilitates comparisons between different types of series; such studies include, for example, the relation between excess mortality and morbidity on pregnancy outcome<sup>15</sup> and the influence of business cycles on birth rates.<sup>16</sup>

### Components of Time Series

Seasonal adjustment of time series is based on the assumption that the total variation of a time series can be "decomposed," or broken down, into four components—the trend (T), the cycle (C), the seasonal component (S), and the irregular component (I).<sup>17</sup>

Under this mode of time series analysis, the cycle is defined as short-run movements made up of alternating periods of increase or decrease. In economic time series cycles usually last for several years (from 2 to 10) depending upon the type of series. In short-term analysis it has been convenient to combine the terms "trend" and "cycle," referring to the component as the trend-cycle, following the economist's usage, or just as the trend.

The seasonal factor described for births earlier in this report consists of intrayear movements which are repeated more or less

regularly each year. The pattern may, and usually does, change over time, but such changes are small and occur slowly. Irregular fluctuations are those that remain after systematic fluctuations have been accounted for. They include the random movements of the series as well as the deficiency of the method in identifying true seasonal and trend-cycle components.

Figure 7 shows the birth rate (births per 1,000 population) for the United States from 1957 to 1960 broken down into its seasonal, trend-cycle, and irregular components. The seasonal component clearly emerges as the strongest of the monthly fluctuations, tracing a bimodal pattern with a major peak in September and a minor peak in February. Irregular fluctuations are small in amplitude relative to seasonal component and short in duration. The trend-cycle traces a smooth path, with peaks in mid-1957 and early 1959.

The relative size of the components and the quantitative impact of each component on the total variation can be expressed in terms of their month-to-month change without regard to size. Thus, for the 10-year period 1954-63, the average month-to-month change in the observed birth rates for the United States was 2.91 percent. The average change in the irregular component was 0.79 percent; in the trend-cycle it was 0.24 percent; and in the seasonal component it was 2.81 percent. The seasonal component, therefore, emerges as the strongest source of monthly fluctuation and accounts for over 90 percent of the total monthly fluctuation in the birth rate during the period 1954-63.<sup>18</sup>

Therefore, once the seasonal component (S) has been established for a time series, it can be removed by dividing the observed rates (O) by the respective seasonal factor (S) for each month. This procedure is called seasonal adjustment. Table 3 and figure 8 show seasonally adjusted general fertility rates (births per 1,000 women 15-44 years) for the United States for 1933-63. These figures are based on the quotient of the observed general fertility rates by month for this period (table 3) and their respective seasonal factors.

The seasonally adjusted series, representing the trend-cycle and irregular components, is an improvement over the observed data in deter-

mining the trend of the series; but it still exhibits marked fluctuations due to the presence of the irregular component, which for birth rates is over three times as large as the trend-cycle component:

$$\frac{\text{Average percent change in irregular component}}{\text{Average percent change in trend-cycle}} = \frac{0.79}{0.24} = 3.3$$

Removal of the irregular component from the seasonally adjusted series by the BLS Seasonal Factor Method described in the Appendix leaves the trend-cycle, or trend, of the birth rate. Table 3 and figure 8 show the trend-cycle and the seasonally adjusted fertility rate for the total United States for 1933-63; table 4 and figure 9 show fertility rates for white and nonwhite women in the United States for 1942-63. Tables 5 and 6 show trends in fertility in terms of birth rates for the same periods.

### Seasonally Adjusted Fertility Rates, 1933-63

Figures 8 and 9 show the underlying trend in the fertility rate by month for the United States in terms of the trend-cycle. The fertility rate for white and nonwhite women combined fluctuated between 75 and 81 births per 1,000 women 15-44 years of age between 1933 and 1940, reaching a low of about 75 in November 1936. The rate began moving upward sharply in early 1941 attaining a peak during World War II of 100 in December 1942. By the end of the war it had fallen to 82 in December 1945. In the following 12 months the fertility rate increased by 50 percent to 124, reaching the peak of the postwar "baby boom" in December 1946, and subsided in a year's time to 107. From 1948 a gradual upward movement occurred culminating in July 1957, when the rate was 124 births per 1,000 women 15-44 years. Since 1957 the rate has declined gradually with two interruptions—one in the spring of 1959 and the other in the winter of 1960. By the end of 1963 the fertility rate was 109, about the same level as after the World War II peak.

For white and nonwhite women fertility rates by month have followed very similar paths since 1942, the first date for which data are available to make these comparisons. Figure 9 indicates that the fertility of nonwhite women responded less to the demobilization after World War II than that

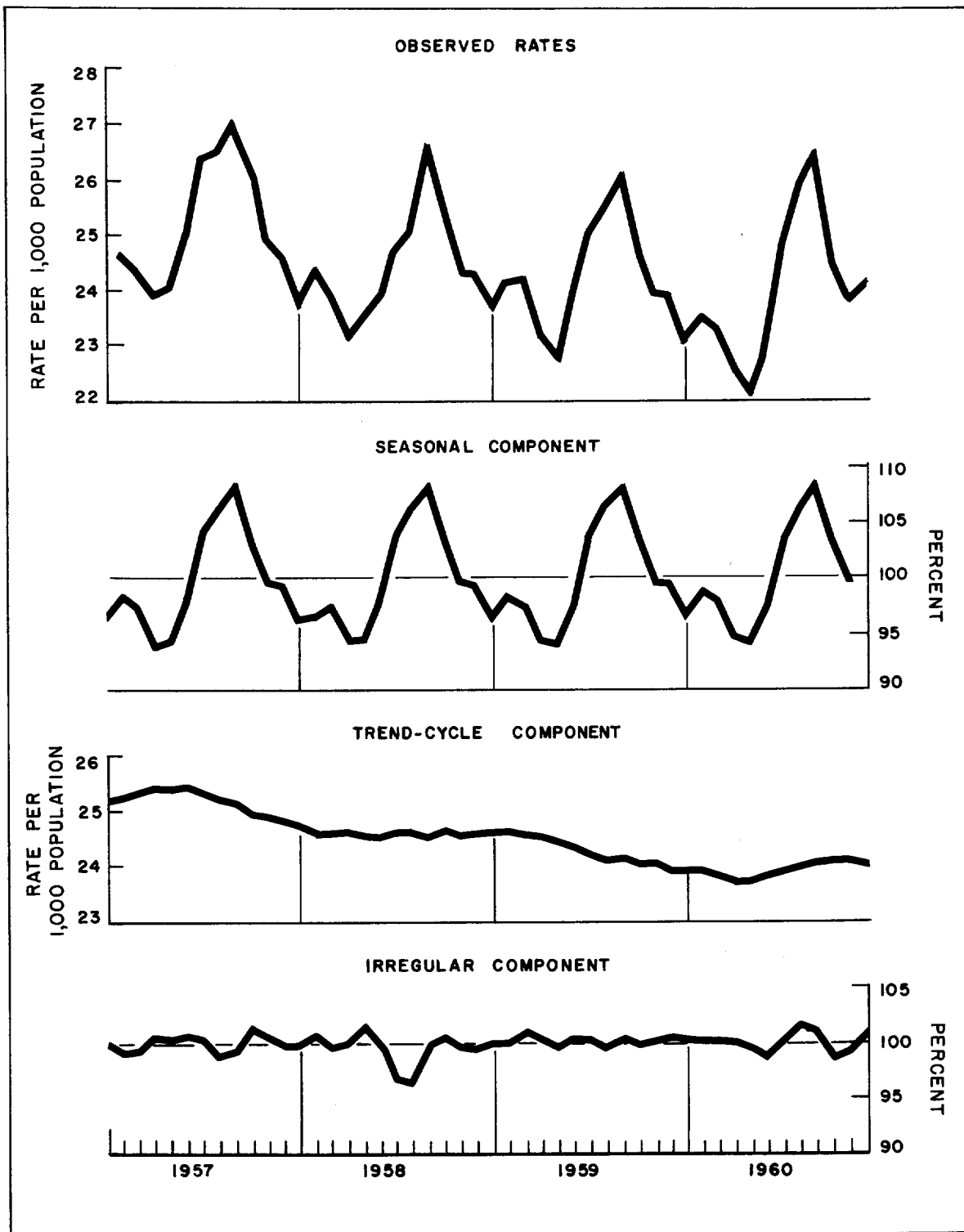


Figure 7. United States birth rates, by month: observed data and seasonal, trend-cycle, and irregular components, 1957-60.

(By month of occurrence. Rates on an annual basis per 1,000 population for specified month. Based on data in table 5)

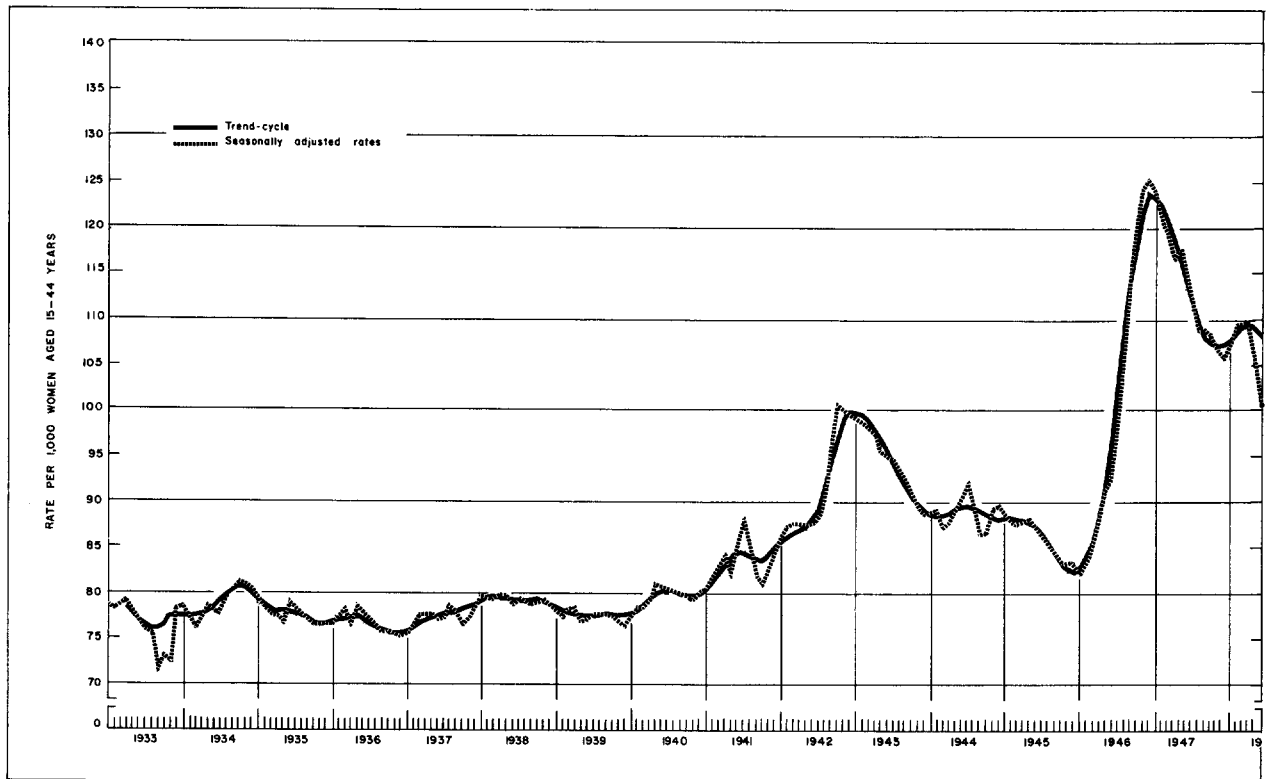


Figure 8. United States fertility rates, by month:

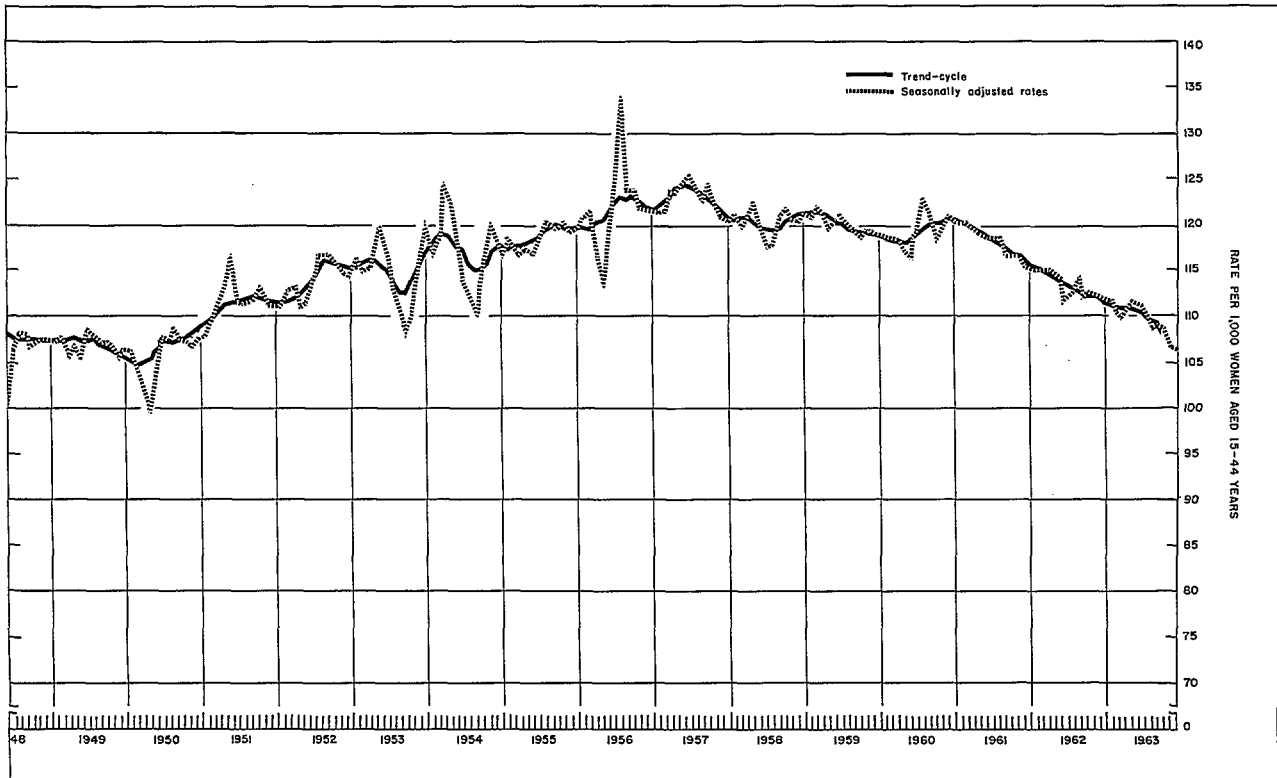
(By month of occurrence. Rates on an annual basis per 1,000 women aged

of white women. The fertility rate increased by 54 percent for white women from the end of 1945 to the end of 1946; for nonwhite women the increase was 26 percent. After the 1946 peak, however, the fertility rate for white women declined almost continuously until the middle of 1950, while the rate for nonwhite women declined for only a year, soon equaling then surpassing the 1946 high. During the 1950's rates for both white and nonwhite women moved upward, gradually attaining in mid-1957 the highest recorded levels—119 births per 1,000 women 15-44 years for white women and 165 for nonwhite. Since 1957 the general trend for both color groups has been downward, although there have been cyclical interruptions in the trend which were not experienced simultaneously by both groups. The nonwhite fertility rate reached two well-defined peaks after 1957—one in December 1958 (164) and the other in February 1961 (161). For white

women the downward movement in the fertility rate was interrupted three times after 1957, reaching peaks in March 1959 (116), September 1960 (116), and March 1962 (114). By the end of 1963 fertility rates for white and nonwhite women were, respectively, 9 and 10 percent below the high figure for 1957.

## CONCLUSION

Since 1933, changes have occurred in the seasonal pattern of births in the United States, although these changes have been largely shifts in intensity rather than in the basic shape of the distribution. The changes are concentrated among nonwhite births, where there has been a general increase in the proportion of births during the second half of the year and, especially during the 1940's, an increase in the amplitude of month-to-month changes in the number of births. For



trend-cycle and seasonally adjusted rates, 1933-63.

15-44 years estimated for specified month. Based on data in table 3)

white births the seasonal indexes have shown less change.

Geographic differences in seasonality persisted throughout the period, with the greatest seasonal fluctuation occurring in the South Region among white and nonwhite births alike. The least seasonality in births was exhibited in the Northeast. With the exception of the Northeast, the amplitude of the white and nonwhite distributions were similar, suggesting that geographic factors are more closely associated with seasonality than socioeconomic factors.

Since 1933 seasonality has increased for the United States as a whole, although this appears to be largely due to changes in the pattern of nonwhite births. That these changes are not due merely to interregional migration is indicated by the intensity of seasonal fluctuations increasing sharply for nonwhite births in several geographic regions. For nonwhite births in the South the

standard deviation of annual seasonal indexes increased by 60 percent between 1943 and 1963.

The apparent uniformity of the seasonal distribution of births within the United States from one geographic region to another contrasts sharply with the seasonal patterns of other countries, even those of the countries bordering the United States. Among those countries used as illustrations, South Australia exhibited seasonal variations most similar to those of this country, while many of the European nations, highly similar to each other, displayed patterns distinctly different from that of the United States. Similar patterns, then, were observed in areas widely separated geographically and culturally, while different patterns were observed in contiguous geographic areas among different socioeconomic groups, between the urban and rural populations of India, and among the residents of different census tracts in Baltimore, Maryland.

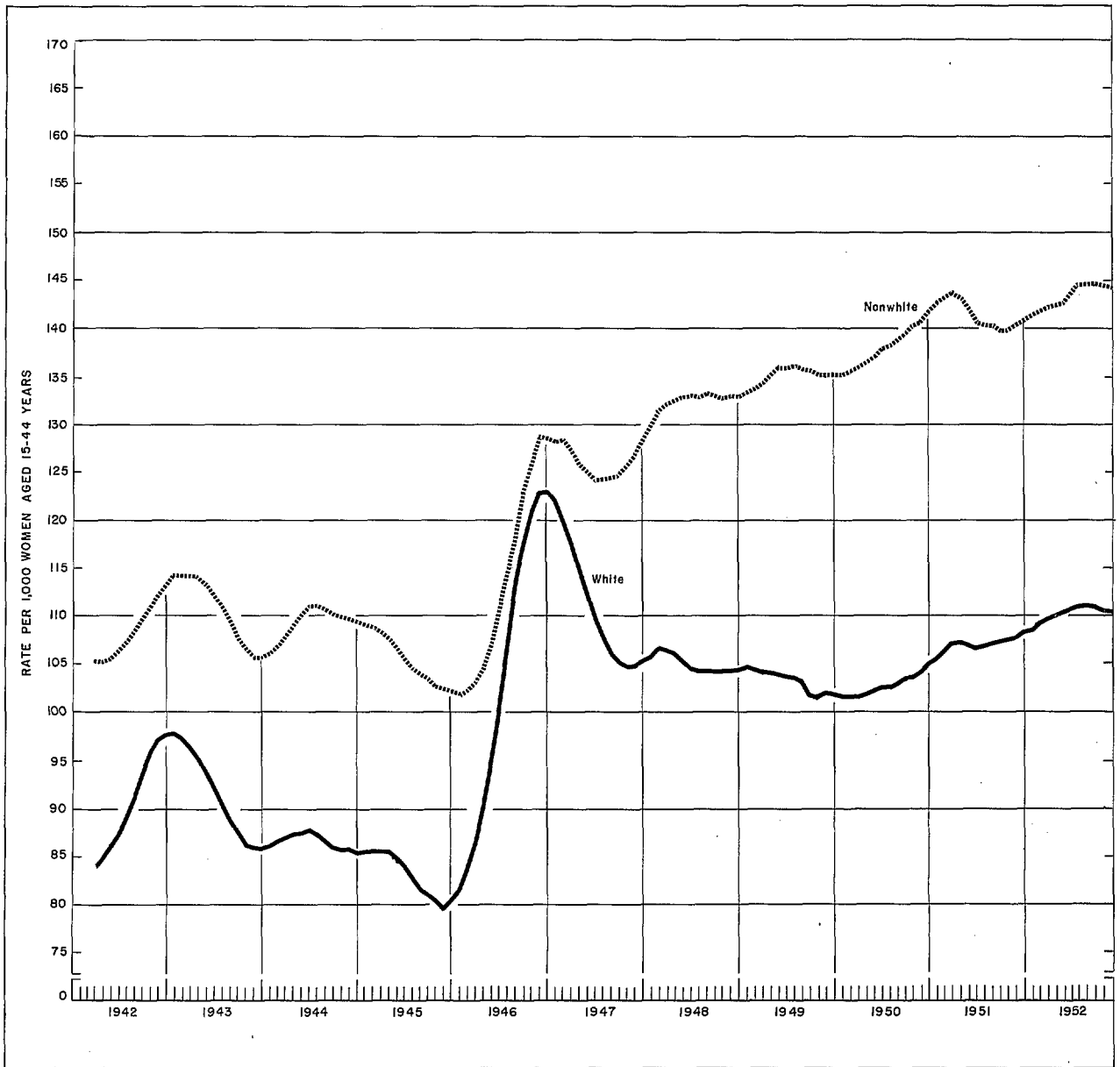
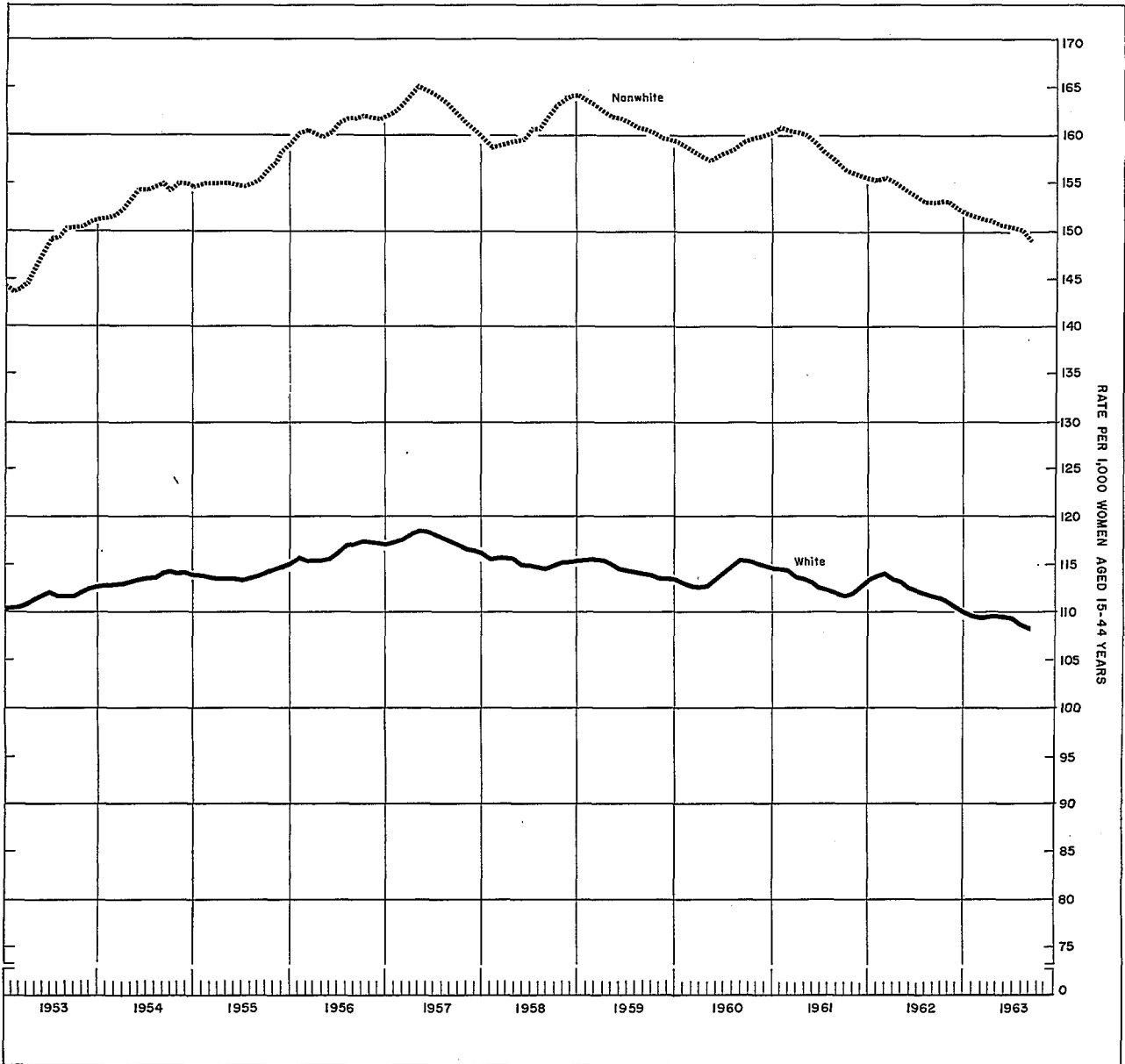


Figure 9. United States fertility rates,  
 (By month of occurrence. Rates on an annual basis per 1,000 women aged

Explanations for the seasonality of births have been sought in certain social phenomena, such as the occurrence of major holidays and periods of increased numbers of marriages, and in the physical environment, particularly from the effect of high temperatures. While statistically significant relations have been described between seasonality of births and a number of variables, the validity of these relationships remains to be demonstrated. Basic questions still remain, for example, as to whether seasonality of births

reflects differences in conception rates or in fetal mortality rates. Socioeconomic differences in seasonality may result from either. Further studies may bring to light some of the factors directly responsible for seasonal variation in births.

Monthly births and birth rates are subject not only to a remarkably stable pattern of seasonal variation but also to trend, cyclical, and irregular movements. Establishing the seasonal distribution and the magnitude of the irregular



by color by month: trend-cycle, 1942-63.

15-44 years estimated for specified month. Based on data in table 4)

movements for births makes it possible to adjust birth rates and fertility rates for these factors and to study the relations between seasonally adjusted rates and other factors. Seasonally adjusted birth rates and fertility rates are shown in this report for the period 1933-63 for all births and for white and nonwhite births for 1942-63.

Except where noted otherwise, seasonal indexes for geographic regions and color groups and seasonal adjustment of time series in this

report were based on a new method of seasonal adjustment. The results of the new method are consistent with those presented in earlier reports.

In view of the very large frequencies underlying the seasonal indexes in the United States and of the persistent shape of the distribution, tests of significance of seasonality were not presented in this report. They were carried out in an earlier report in which seasonality was found to be highly significant at the 0.001 level.<sup>1</sup>

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## DETAILED TABLES

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Table 1. Seasonal indexes of live births and standard deviation of seasonal indexes: United States and each geographic region, 1933-63

(Notes to tables given on page V)

Area and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<u>United States</u>													
1963-----	96.4	98.5	98.0	95.0	94.2	97.3	103.2	106.9	108.6	102.9	99.4	99.6	4.5
1962-----	96.4	98.5	98.1	94.9	94.0	97.5	103.4	106.7	108.7	102.9	99.4	99.6	4.6
1961-----	96.3	98.6	98.0	94.8	94.1	97.5	103.4	106.7	108.7	103.0	99.4	99.5	4.6
1960-----	96.3	98.5	97.8	94.7	94.1	97.7	103.6	106.5	108.6	103.2	99.5	99.4	4.6
1959-----	96.4	98.6	97.8	94.4	94.0	97.8	103.8	106.6	108.5	103.2	99.4	99.4	4.6
1958-----	96.3	98.6	97.6	94.1	94.2	97.9	103.9	106.6	108.6	103.1	99.5	99.3	4.6
1957-----	96.6	98.6	97.2	93.8	94.2	98.1	104.2	106.5	108.5	103.0	99.6	99.3	4.7
1956-----	96.8	98.8	96.9	93.6	94.1	98.4	104.5	106.5	108.3	103.1	99.6	99.3	4.7
1955-----	97.0	99.0	96.8	93.4	93.9	98.5	104.7	106.6	108.2	103.0	99.5	99.1	4.7
1954-----	97.3	99.2	97.1	93.3	93.6	98.8	104.7	106.5	108.0	102.9	99.5	99.0	4.7
1953-----	97.5	99.5	97.3	93.2	93.1	99.0	104.8	106.7	107.9	102.8	99.3	98.8	4.8
1952-----	97.7	99.6	97.6	93.2	93.0	99.0	104.9	106.6	107.7	102.8	99.4	98.5	4.7
1951-----	98.2	100.0	98.1	93.1	92.4	99.2	104.6	106.6	107.5	102.7	99.5	98.3	4.7
1950-----	98.5	100.0	98.3	93.0	92.4	99.2	104.3	106.5	107.3	102.8	99.5	98.0	4.7
1949-----	98.6	100.0	98.4	93.2	92.4	99.1	103.7	106.2	107.2	103.1	99.8	98.0	4.5
1948-----	98.9	100.0	98.2	93.3	92.6	99.0	103.4	106.0	107.1	103.1	100.1	98.1	4.4
1947-----	99.2	100.2	97.9	93.3	92.8	98.7	103.3	105.9	106.9	102.8	100.3	98.3	4.3
1946-----	99.3	100.2	97.9	93.5	93.0	98.6	103.2	105.7	106.9	102.7	100.3	98.2	4.3
1945-----	99.6	100.6	98.0	94.0	93.2	98.7	103.0	105.5	107.0	102.5	100.0	98.0	4.1
1944-----	99.7	100.8	98.3	94.4	93.4	98.8	103.1	105.5	106.7	102.3	99.4	97.6	4.0
1943-----	99.8	101.3	98.8	95.1	93.7	98.7	103.2	105.6	106.6	101.4	98.6	97.2	3.9
1942-----	99.9	101.6	99.4	95.7	94.2	98.6	103.6	105.8	106.4	100.7	97.8	96.6	3.8
1941-----	100.0	102.0	100.0	96.4	94.8	98.5	103.9	105.9	106.0	99.9	97.0	95.8	3.8
1940-----	100.0	102.1	100.8	97.1	95.3	98.3	103.9	106.0	106.0	99.5	96.2	95.2	3.9
1939-----	100.0	102.5	101.3	97.3	95.9	98.4	104.1	105.8	105.6	98.9	95.8	94.7	3.9
1938-----	99.9	102.4	101.4	97.5	96.2	98.7	104.4	105.9	105.2	98.7	95.4	94.4	3.9
1937-----	100.0	102.6	101.4	97.3	96.7	98.6	104.3	105.5	105.4	98.8	95.5	94.3	3.8
1936-----	100.0	102.5	101.5	97.4	96.9	98.6	104.1	105.2	105.3	98.7	95.5	94.3	3.7
1935-----	100.1	102.7	101.4	97.2	97.3	98.8	104.0	105.0	105.2	98.4	95.6	94.5	3.6
1934-----	100.0	102.7	101.4	97.1	97.5	98.9	103.7	104.8	105.4	98.4	95.6	94.6	3.6
1933-----	100.0	102.7	101.4	97.1	97.7	99.1	103.5	104.5	105.3	98.7	95.8	94.7	3.5

Table 1. Seasonal indexes of live births and standard deviation of seasonal indexes: United States and each geographic region, 1933-63—Con.

(Notes to tables given on page V)

Area and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<u>Northeast</u>													
1963-----	94.8	98.7	100.1	98.5	97.5	99.9	102.6	104.9	106.5	101.3	97.8	97.6	3.3
1962-----	94.9	98.8	100.2	98.3	97.4	100.1	102.8	104.2	106.5	101.3	97.8	97.6	3.3
1961-----	94.9	99.0	100.0	98.3	97.4	100.4	102.7	103.5	106.6	101.3	97.8	97.6	3.2
1960-----	95.1	99.1	99.9	98.5	97.8	100.5	102.8	103.1	106.5	101.5	98.0	97.6	3.1
1959-----	95.2	99.3	99.8	98.5	97.8	100.6	102.8	103.1	106.4	101.6	97.8	97.6	3.1
1958-----	95.2	99.2	99.7	98.6	98.3	100.6	102.9	102.7	106.1	101.5	98.0	97.6	2.9
1957-----	95.4	99.2	99.6	98.4	98.6	100.5	103.1	102.4	106.0	101.4	97.8	97.5	2.9
1956-----	95.5	99.3	99.5	98.5	98.7	100.6	103.3	102.5	105.6	101.1	97.7	97.5	2.8
1955-----	95.7	99.5	99.5	98.7	98.6	100.6	103.5	102.5	105.3	101.1	97.6	97.2	2.8
1954-----	95.9	99.5	99.9	98.6	98.5	100.6	103.7	102.8	105.2	101.1	97.4	97.0	2.8
1953-----	96.2	99.8	100.2	98.3	97.7	100.7	104.0	103.0	105.1	100.9	97.2	96.8	2.9
1952-----	96.4	99.8	100.5	98.0	97.3	100.7	104.3	103.0	105.0	101.1	97.4	96.6	3.0
1951-----	96.4	100.0	100.8	97.5	96.8	100.6	104.1	103.3	105.0	101.2	97.4	96.5	3.1
1950-----	96.7	100.0	101.0	97.5	96.3	101.1	103.9	103.4	104.9	101.5	97.8	96.4	3.1
1949-----	96.7	99.6	100.6	97.4	96.7	100.9	103.4	103.2	104.8	101.8	98.3	96.3	2.9
1948-----	96.8	99.5	100.5	97.1	96.6	101.3	103.0	103.2	104.8	101.8	98.5	96.5	2.9
1947-----	97.2	99.5	99.9	96.7	97.1	101.8	103.2	103.1	104.5	101.5	99.0	96.6	2.8
1946-----	97.2	99.3	99.4	96.8	97.4	102.0	103.2	103.1	104.5	101.6	99.0	96.6	2.8
1945-----	97.3	99.6	99.3	96.7	97.9	102.2	103.0	103.0	104.3	101.4	98.9	96.5	2.7
1944-----	97.3	99.6	99.3	96.9	98.2	102.3	103.8	103.2	103.9	100.9	98.4	96.4	2.7
1943-----	97.3	99.9	99.5	97.4	98.1	102.2	104.6	103.5	103.7	100.3	97.9	96.1	2.9
1942-----	97.2	100.1	100.0	97.8	97.8	102.0	105.4	103.7	103.4	99.5	97.0	95.6	3.1
1941-----	97.4	100.4	100.4	98.5	98.0	101.8	106.4	104.1	103.1	98.8	96.4	95.2	3.3
1940-----	97.3	100.5	101.0	99.2	97.8	101.7	106.6	104.5	102.9	98.4	95.6	94.8	3.5
1939-----	97.4	100.7	101.5	99.6	97.9	101.8	107.1	104.4	102.4	97.7	95.3	94.5	3.7
1938-----	97.7	100.7	101.6	100.0	98.3	102.2	107.0	104.3	102.1	97.2	94.9	94.2	3.8
1937-----	98.1	100.9	101.7	99.9	98.7	102.3	106.6	104.0	101.9	97.1	94.9	94.1	3.7
1936-----	98.1	101.0	101.9	99.9	99.3	102.5	106.1	104.0	101.4	96.8	94.8	94.2	3.6
1935-----	98.4	101.1	101.7	99.9	99.9	102.7	105.8	104.0	101.1	96.5	94.9	94.3	3.5
1934-----	98.4	101.1	101.7	99.8	100.4	102.9	105.3	103.7	101.0	96.3	94.9	94.5	3.4
1933-----	98.4	101.1	101.7	99.5	100.4	103.1	105.2	103.5	100.7	96.4	95.1	94.7	3.3

Table 1. Seasonal indexes of live births and standard deviation of seasonal indexes: United States and each geographic region, 1933-63—Con.

(Notes to tables given on page V)

Area and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<u>North Central</u>													
1963-----	95.4	98.3	99.2	96.4	94.5	96.4	103.7	107.2	107.8	102.4	99.2	99.2	4.4
1962-----	95.3	98.4	99.3	96.3	94.4	97.0	103.8	106.6	107.8	102.4	99.2	99.2	4.3
1961-----	95.2	98.5	99.3	96.0	94.5	97.6	103.7	106.5	107.8	102.6	99.1	99.1	4.3
1960-----	95.3	98.5	99.1	95.8	94.6	98.2	104.0	106.1	107.7	102.9	99.2	98.9	4.2
1959-----	95.3	98.6	99.0	95.6	94.6	98.3	104.2	106.1	107.7	103.0	99.1	98.9	4.3
1958-----	95.3	98.7	98.4	95.1	94.8	98.8	104.5	105.9	107.7	103.0	99.1	98.8	4.3
1957-----	95.6	98.7	97.8	94.7	94.8	99.3	104.9	105.8	107.7	102.9	99.2	98.7	4.4
1956-----	95.8	98.8	97.3	94.4	94.9	99.4	105.1	106.0	107.6	102.9	99.2	98.6	4.4
1955-----	95.8	98.8	97.0	94.1	94.9	99.7	105.3	106.2	107.6	102.8	99.1	98.4	4.5
1954-----	95.9	98.8	97.0	94.3	94.8	100.1	105.4	106.1	107.4	102.8	99.1	98.2	4.5
1953-----	96.0	99.0	97.2	94.2	94.3	100.2	105.4	106.4	107.4	102.6	99.0	98.0	4.5
1952-----	96.1	99.1	97.7	94.2	94.3	100.3	105.4	106.4	107.2	102.6	99.0	97.6	4.5
1951-----	96.6	99.4	98.2	94.4	94.0	100.5	105.0	106.3	106.9	102.5	99.1	97.5	4.4
1950-----	96.8	99.4	98.4	94.0	94.3	100.4	104.7	106.2	106.6	102.7	99.0	97.2	4.3
1949-----	96.9	99.4	98.7	94.1	94.0	100.4	104.2	105.9	106.6	103.1	99.4	97.1	4.2
1948-----	97.4	99.4	98.4	93.8	94.3	100.3	104.0	105.8	106.3	103.1	99.6	97.2	4.1
1947-----	97.9	99.7	98.1	93.4	94.3	100.2	104.2	105.9	106.1	102.9	99.8	97.4	4.1
1946-----	98.1	99.6	98.0	93.6	94.5	100.0	104.1	105.8	106.0	102.7	99.8	97.4	4.0
1945-----	98.5	100.0	97.9	93.7	94.4	100.1	104.1	105.6	106.1	102.6	99.6	97.2	4.0
1944-----	98.8	100.2	98.1	94.0	94.4	100.2	104.4	105.6	106.0	102.1	99.2	96.9	4.0
1943-----	99.1	100.8	98.4	94.4	94.5	100.0	104.6	105.9	105.8	101.5	98.5	96.5	4.0
1942-----	99.3	101.3	98.9	94.6	95.1	99.9	105.1	106.1	105.7	100.8	97.5	95.8	4.0
1941-----	99.5	101.6	99.4	95.0	95.5	99.7	105.3	106.3	105.6	100.3	96.7	95.1	4.1
1940-----	99.5	101.9	100.1	95.5	95.7	99.5	105.6	106.5	105.7	99.9	96.0	94.6	4.2
1939-----	99.5	102.3	100.6	95.4	96.0	99.6	105.7	106.3	105.3	99.3	95.6	94.1	4.2
1938-----	99.5	102.5	100.7	95.4	96.0	100.0	106.4	106.3	104.8	99.1	95.3	94.1	4.3
1937-----	99.7	102.5	100.6	95.3	95.9	100.3	106.3	105.9	104.7	99.1	95.6	94.1	4.2
1936-----	99.8	102.4	100.7	95.4	95.9	100.6	106.2	105.5	104.7	98.5	95.8	94.4	4.1
1935-----	100.0	102.5	100.5	95.2	95.9	100.9	106.2	105.3	104.5	98.1	96.0	94.6	4.1
1934-----	100.0	102.7	100.5	95.1	95.6	101.3	106.1	104.9	104.5	98.0	96.2	94.8	4.0
1933-----	100.0	102.7	100.5	95.1	96.1	101.7	105.7	104.9	104.3	98.0	96.5	94.9	3.9

Table 1. Seasonal indexes of live births and standard deviation of seasonal indexes: United States and each geographic region, 1933-63—Con.

(Notes to tables given on page V)

Area and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<u>South</u>													
1963-----	99.7	99.6	96.0	89.8	88.6	93.5	103.2	109.8	111.7	105.0	101.5	101.7	7.2
1962-----	99.8	99.4	96.0	89.8	88.3	93.8	103.3	109.8	111.7	105.0	101.5	101.7	7.2
1961-----	99.8	99.4	95.9	89.7	88.3	93.9	103.3	109.8	111.8	105.1	101.6	101.5	7.2
1960-----	99.8	99.2	95.7	89.7	88.3	94.0	103.5	109.7	111.7	105.3	101.6	101.5	7.2
1959-----	99.9	99.1	95.8	89.6	88.0	94.2	103.7	109.9	111.6	105.4	101.7	101.5	7.3
1958-----	99.8	99.2	95.6	89.3	88.0	94.2	103.7	110.2	111.8	105.2	101.7	101.4	7.4
1957-----	99.9	99.1	95.5	89.0	87.9	94.5	103.9	110.1	111.8	104.9	101.9	101.5	7.4
1956-----	100.3	99.4	95.2	88.6	87.7	94.9	104.3	110.0	111.5	104.9	101.8	101.6	7.5
1955-----	100.5	99.9	95.3	88.2	87.4	95.0	104.7	110.1	111.4	104.7	101.7	101.4	7.5
1954-----	100.8	100.1	95.6	87.7	87.3	95.3	104.8	109.8	110.9	104.5	101.5	101.2	7.5
1953-----	101.4	100.7	96.1	87.2	86.9	95.6	104.7	109.9	110.6	104.2	101.2	101.0	7.5
1952-----	102.0	101.2	96.4	86.7	86.9	95.7	105.0	109.8	110.3	104.2	101.3	100.9	7.6
1951-----	102.4	101.6	96.7	86.3	86.7	96.0	104.7	109.5	110.0	104.3	101.2	100.7	7.6
1950-----	102.7	101.9	96.7	86.5	86.8	95.8	104.2	109.2	109.9	104.5	101.1	100.5	7.6
1949-----	102.7	102.0	97.2	88.5	86.7	95.4	103.1	108.7	109.6	104.5	101.2	100.2	7.1
1948-----	102.9	102.0	97.0	89.3	87.2	95.0	102.6	108.3	109.6	104.3	101.3	100.3	6.8
1947-----	103.1	102.4	96.9	89.6	87.4	94.8	102.3	108.2	109.6	103.9	101.3	100.4	6.7
1946-----	103.2	102.5	97.1	90.1	87.7	94.7	102.2	108.0	109.4	103.6	101.1	100.1	6.6
1945-----	103.4	103.1	97.5	91.0	88.1	94.4	101.7	107.7	109.5	103.4	100.4	99.4	6.4
1944-----	103.6	103.3	98.3	91.9	88.4	94.5	101.7	107.3	109.3	103.2	99.6	98.4	6.1
1943-----	103.8	104.1	99.2	93.1	88.8	94.6	101.5	107.3	109.3	102.3	98.6	97.8	5.9
1942-----	103.7	104.4	100.0	94.2	89.5	94.5	101.5	107.1	109.0	101.4	97.8	96.6	5.7
1941-----	103.7	105.0	100.8	95.4	89.9	94.6	101.5	107.0	108.6	100.9	97.0	95.7	5.6
1940-----	103.4	105.3	101.4	96.2	91.0	94.3	101.3	106.7	108.5	100.5	95.9	95.0	5.5
1939-----	103.2	105.7	102.0	96.8	91.9	94.4	101.4	106.6	108.5	100.3	95.2	94.4	5.4
1938-----	102.7	105.6	102.2	97.0	92.6	94.8	101.7	106.5	108.3	99.8	94.8	94.2	5.3
1937-----	102.5	105.6	101.9	97.0	93.8	94.5	101.6	106.3	108.4	99.9	94.8	93.9	5.2
1936-----	102.4	105.5	102.0	97.1	93.9	94.4	101.7	106.1	108.4	99.8	95.1	93.8	5.1
1935-----	102.4	105.5	101.8	96.9	94.4	94.5	101.6	105.8	108.3	99.6	95.0	93.8	5.0
1934-----	102.4	105.4	101.9	96.8	94.4	94.6	101.7	105.7	108.7	99.7	95.0	93.8	5.1
1933-----	102.4	105.4	101.9	96.8	94.4	94.6	101.8	105.4	108.6	99.7	95.4	93.9	5.1

Table 1. Seasonal indexes of live births and standard deviation of seasonal indexes: United States and each geographic region, 1933-63—Con.

(Notes to tables given on page V)

Area and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<u>West</u>													
1963-----	94.4	97.2	98.3	97.1	98.5	100.6	102.8	104.5	107.3	102.3	98.3	99.0	3.6
1962-----	94.3	97.2	98.3	97.2	98.4	100.5	102.9	104.4	107.4	102.3	98.3	99.0	3.6
1961-----	94.2	97.2	98.3	97.2	98.4	100.4	102.9	104.3	107.4	102.3	98.3	99.1	3.6
1960-----	94.1	97.1	98.2	97.2	98.4	100.5	103.1	104.3	107.3	102.4	98.4	99.0	3.7
1959-----	94.1	97.1	98.2	97.3	98.4	100.5	103.2	104.3	107.3	102.4	98.5	99.0	3.7
1958-----	94.0	97.0	98.3	97.1	98.3	100.5	103.5	104.3	107.2	102.4	98.6	98.9	3.7
1957-----	94.0	97.0	98.3	97.0	98.3	100.5	103.7	104.3	107.2	102.3	98.6	98.9	3.7
1956-----	94.0	97.0	98.5	97.1	98.1	100.6	103.7	104.5	107.1	102.3	98.6	98.8	3.7
1955-----	94.3	97.2	98.4	96.7	98.1	100.5	103.7	104.6	106.9	101.9	98.5	98.7	3.7
1954-----	94.7	97.4	98.7	96.7	98.3	100.7	103.7	104.6	106.7	102.0	98.4	98.5	3.6
1953-----	95.0	97.7	98.9	96.6	98.4	100.7	103.6	104.7	106.6	101.5	98.2	98.2	3.5
1952-----	95.3	97.9	98.9	96.7	98.4	100.8	103.5	104.7	106.3	101.4	98.2	97.8	3.4
1951-----	95.8	98.0	98.9	96.9	98.6	100.7	103.3	104.8	106.0	101.2	98.3	97.7	3.2
1950-----	96.1	98.0	98.8	97.0	98.7	100.6	103.3	104.8	105.9	101.0	98.2	97.3	3.2
1949-----	96.4	98.0	98.6	97.2	99.0	100.6	103.2	104.5	105.6	101.3	98.8	96.7	3.1
1948-----	96.7	97.9	98.6	97.6	98.9	100.4	103.1	104.1	105.5	101.1	98.9	96.8	2.9
1947-----	97.0	98.0	98.4	97.8	98.6	100.5	103.0	104.2	105.4	100.9	99.0	97.0	2.8
1946-----	97.0	97.9	98.4	98.0	98.4	100.7	103.2	104.0	105.5	100.9	98.8	96.9	2.9
1945-----	97.2	98.1	98.7	98.1	98.7	101.0	103.2	103.8	105.2	100.8	98.5	96.8	2.8
1944-----	97.2	98.2	98.8	98.4	99.0	101.5	103.3	103.4	105.1	100.8	98.0	96.3	2.8
1943-----	97.0	98.5	99.3	98.6	99.5	101.7	103.1	103.5	104.7	100.4	97.6	96.1	2.7
1942-----	97.0	98.6	99.8	99.0	99.7	102.0	103.2	104.0	104.3	100.1	97.1	95.4	2.9
1941-----	97.1	98.7	100.0	99.0	100.2	102.4	103.3	104.0	103.9	99.7	96.5	94.8	3.0
1940-----	97.2	98.6	100.4	99.2	100.6	102.4	103.6	104.1	103.7	99.6	96.1	94.5	3.1
1939-----	97.5	98.7	100.5	99.4	101.0	102.4	103.5	104.2	103.3	99.1	96.0	94.4	3.1
1938-----	97.6	98.4	100.5	99.6	101.0	102.3	103.8	104.4	103.2	98.6	95.8	94.4	3.2
1937-----	98.0	98.5	100.7	99.6	100.7	102.1	103.8	104.4	103.1	98.5	96.0	94.9	3.0
1936-----	98.3	98.4	100.6	99.7	100.6	102.2	103.7	104.0	103.1	98.2	96.2	95.2	2.9
1935-----	98.5	98.4	100.6	99.6	100.7	102.0	103.7	103.8	103.1	97.9	96.4	95.5	2.8
1934-----	98.6	98.4	100.6	99.8	100.5	101.7	103.5	103.9	102.9	97.7	96.7	95.9	2.6
1933-----	98.6	98.4	100.6	100.0	100.4	101.7	103.0	103.6	103.0	97.7	96.7	96.1	2.5

Table 2. Seasonal indexes of live births and standard deviation of seasonal indexes, by color: United States and each geographic region, 1942-63

(Notes to tables given on page V)

Area, color, and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<u>UNITED STATES</u>													
<u>White</u>													
1963-----	95.3	98.0	98.3	95.8	95.2	97.5	102.8	106.4	108.3	103.3	99.5	99.4	4.3
1962-----	95.3	98.1	98.5	95.8	95.0	97.6	103.0	106.1	108.4	103.3	99.5	99.4	4.3
1961-----	95.3	98.2	98.4	95.6	95.0	97.9	102.9	106.0	108.4	103.5	99.4	99.4	4.3
1960-----	95.3	98.2	98.3	95.5	95.1	98.1	103.1	105.8	108.3	103.7	99.5	99.3	4.3
1959-----	95.4	98.3	98.3	95.5	94.9	98.0	103.2	106.0	108.2	103.7	99.5	99.3	4.3
1958-----	95.3	98.2	97.8	95.0	95.0	98.3	103.4	106.1	108.4	103.7	99.5	99.2	4.4
1957-----	95.6	98.3	97.5	94.7	95.0	98.5	103.7	106.0	108.3	103.5	99.7	99.2	4.4
1956-----	95.8	98.5	97.1	94.5	94.9	98.6	104.0	106.1	108.1	103.4	99.7	99.1	4.4
1955-----	96.0	98.6	97.0	94.2	94.6	98.7	104.3	106.3	108.0	103.2	99.7	99.0	4.5
1954-----	96.3	98.8	97.2	94.0	94.4	99.0	104.4	106.2	107.9	103.2	99.7	98.8	4.5
1953-----	96.7	99.1	97.5	93.7	93.9	99.2	104.4	106.4	107.8	103.0	99.5	98.6	4.6
1952-----	96.9	99.2	97.7	93.6	93.7	99.2	104.5	106.3	107.7	103.1	99.6	98.4	4.6
1951-----	97.3	99.4	98.0	93.6	93.1	99.4	104.4	106.4	107.5	103.2	99.7	98.3	4.6
1950-----	97.6	99.4	98.1	93.2	93.0	99.4	104.2	106.4	107.4	103.4	99.7	98.0	4.6
1949-----	97.8	99.3	98.1	93.4	92.9	99.3	103.7	106.1	107.3	103.7	100.1	97.9	4.5
1948-----	98.1	99.3	97.9	93.3	93.0	99.2	103.4	106.0	107.3	103.8	100.4	98.0	4.5
1947-----	98.5	99.4	97.5	93.2	93.1	99.0	103.3	105.8	107.3	103.7	100.6	98.2	4.5
1946-----	98.7	99.3	97.2	93.3	93.1	98.8	103.3	105.7	107.4	103.9	100.7	98.3	4.5
1945-----	98.9	99.4	96.9	93.5	93.3	98.8	103.0	105.4	107.8	103.9	100.7	98.2	4.4
1944-----	99.1	99.3	96.7	93.5	93.4	98.8	103.1	105.3	107.9	104.0	100.7	98.2	4.5
1943-----	99.1	99.6	96.6	93.7	93.3	98.6	103.1	105.3	108.2	104.0	100.6	98.3	4.5
1942-----	99.1	99.6	96.6	93.6	93.4	98.5	103.4	105.4	108.5	103.7	100.4	98.3	4.6
<u>Nonwhite</u>													
1963-----	102.4	101.3	96.4	90.2	89.6	94.6	104.9	109.9	110.3	101.1	99.2	100.2	6.6
1962-----	102.4	101.2	96.4	90.1	89.4	94.7	105.3	110.0	110.1	101.1	99.2	100.2	6.7
1961-----	102.4	101.0	96.4	90.1	89.5	94.6	105.3	109.9	110.1	101.2	99.3	100.1	6.7
1960-----	102.3	100.8	96.4	90.0	89.5	95.0	105.7	109.7	109.9	101.3	99.2	100.0	6.6
1959-----	102.4	100.7	96.5	89.9	89.4	95.4	105.9	109.9	109.8	101.2	99.2	100.0	6.6
1958-----	102.3	100.7	96.4	89.4	89.5	96.1	106.2	109.8	109.4	100.9	99.2	99.8	6.6
1957-----	102.3	100.7	96.2	89.2	89.7	96.6	106.3	109.7	109.4	100.7	99.2	99.8	6.6
1956-----	102.5	101.0	96.1	88.9	89.7	97.2	106.6	109.4	109.0	100.6	99.2	99.9	6.6
1955-----	102.7	101.5	96.5	88.7	89.7	97.3	106.7	109.1	108.8	100.5	98.9	99.8	6.5
1954-----	102.8	101.8	97.3	88.7	89.5	97.7	106.7	108.8	108.6	100.2	98.5	99.7	6.5
1953-----	103.2	102.6	97.8	88.6	89.1	97.9	106.4	108.6	108.3	99.8	98.2	99.6	6.5
1952-----	103.4	103.0	98.3	88.9	89.2	97.8	106.4	108.1	107.8	99.7	98.0	99.4	6.3
1951-----	103.7	103.5	99.1	89.4	88.9	97.9	106.0	107.6	107.3	99.5	97.8	99.4	6.2
1950-----	104.1	104.1	99.3	90.0	89.1	97.7	105.3	107.3	107.1	99.4	97.6	99.2	6.0
1949-----	104.0	104.3	99.7	90.8	89.4	97.0	104.7	106.7	106.9	99.5	97.6	99.0	5.7
1948-----	104.2	104.4	99.7	91.9	90.0	96.6	103.9	106.2	106.6	99.2	97.9	99.2	5.4
1947-----	104.4	104.7	99.6	92.3	90.1	96.3	103.5	106.0	106.5	98.8	98.0	99.5	5.3
1946-----	104.4	104.4	100.0	92.8	90.6	96.1	103.4	105.8	106.3	98.7	98.0	99.6	5.1
1945-----	104.3	104.4	99.9	93.3	90.9	96.1	102.9	105.7	106.4	98.4	97.9	99.9	5.0
1944-----	104.4	104.2	99.9	93.4	91.3	96.1	102.9	105.7	106.4	98.3	97.8	99.9	4.9
1943-----	104.0	104.2	100.0	93.8	91.3	96.1	102.9	105.7	106.3	98.0	97.5	100.2	4.8
1942-----	104.0	104.2	100.0	94.1	91.4	96.1	103.0	105.8	106.3	97.5	97.4	99.8	4.8

Table 2. Seasonal indexes of live births and standard deviation of seasonal indexes, by color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

Area, color, and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<u>NORTHEAST</u>													
<u>White</u>													
1963-----	94.2	97.3	99.5	98.8	97.8	99.3	102.6	105.0	107.2	102.4	98.0	97.7	3.7
1962-----	94.3	97.6	99.8	98.6	97.7	99.5	102.7	104.5	107.1	102.4	98.0	97.7	3.6
1961-----	94.2	98.0	99.6	98.6	97.7	99.9	102.6	104.1	107.1	102.3	97.9	97.6	3.5
1960-----	94.3	98.3	99.6	98.7	98.0	100.1	102.5	103.5	106.8	102.4	98.0	97.6	3.3
1959-----	94.5	98.7	99.6	98.7	98.0	100.1	102.4	103.4	106.7	102.4	97.9	97.5	3.3
1958-----	94.7	99.2	100.0	99.2	98.6	100.8	102.2	102.2	105.9	102.0	97.9	97.6	2.9
1957-----	94.9	99.2	99.8	98.9	99.1	100.7	102.3	101.9	105.8	101.7	97.9	97.4	2.8
1956-----	95.1	99.3	99.8	99.0	99.2	100.7	102.6	102.0	105.5	101.4	97.7	97.4	2.7
1955-----	95.3	99.4	99.7	99.2	99.1	100.7	102.9	102.1	105.2	101.4	97.7	97.1	2.7
1954-----	95.6	99.4	100.2	99.0	98.9	100.7	103.2	102.4	105.1	101.3	97.5	96.9	2.7
1953-----	95.9	99.7	100.5	98.5	98.3	100.7	103.5	102.7	105.0	101.1	97.3	96.6	2.8
1952-----	96.0	99.7	100.8	98.2	97.9	100.8	103.9	102.8	104.9	101.3	97.5	96.4	2.9
1951-----	96.2	99.9	101.0	97.7	97.3	100.7	103.9	103.1	104.9	101.4	97.5	96.3	3.0
1950-----	96.4	99.7	100.9	97.5	96.8	101.1	103.7	103.3	104.8	101.6	97.7	96.2	3.0
1949-----	96.6	99.5	100.6	97.4	97.0	101.0	103.3	103.2	104.7	101.9	98.2	96.2	2.9
1948-----	96.8	99.4	100.5	97.0	96.8	101.4	103.0	103.3	104.8	102.0	98.5	96.4	2.9
1947-----	97.2	99.4	99.5	96.8	97.2	101.8	103.1	103.1	104.6	101.8	99.0	96.6	2.8
1946-----	97.4	99.2	98.8	96.8	97.3	101.8	102.9	103.1	104.7	102.0	99.2	96.8	2.8
1945-----	97.6	99.3	98.2	96.7	97.8	102.0	102.7	103.0	105.0	101.8	99.4	96.9	2.8
1944-----	97.9	99.2	97.9	96.5	98.3	101.8	102.7	102.8	104.9	101.7	99.4	97.0	2.7
1943-----	98.0	99.3	97.5	96.5	98.3	101.8	102.7	102.9	105.1	101.8	99.5	97.1	2.7
1942-----	98.0	99.3	97.5	96.3	98.2	101.7	102.9	103.0	105.2	101.6	99.3	97.0	2.8
<u>Nonwhite</u>													
1963-----	98.5	98.7	95.5	93.1	93.7	97.6	106.6	107.9	108.9	99.8	99.6	100.2	5.2
1962-----	98.9	98.8	96.0	92.4	93.3	98.1	106.9	107.3	108.7	99.8	99.6	100.2	5.2
1961-----	99.3	99.1	95.7	92.7	93.4	97.6	107.0	107.8	108.9	99.4	99.0	99.8	5.3
1960-----	99.4	98.9	96.1	92.7	93.6	98.0	106.9	108.0	108.5	99.7	98.6	99.3	5.2
1959-----	99.8	99.1	96.6	92.0	93.6	98.4	107.2	108.2	107.9	99.5	98.4	99.5	5.3
1958-----	99.8	99.3	96.6	92.3	94.1	99.0	107.1	108.0	107.4	99.5	98.2	99.0	5.1
1957-----	100.0	99.3	96.8	92.5	93.7	99.4	107.3	108.0	107.2	99.2	98.0	98.8	5.1
1956-----	99.8	99.2	97.2	92.0	93.5	100.4	107.7	107.8	106.6	99.0	97.9	98.7	5.1
1955-----	99.6	99.6	96.8	92.3	93.5	100.6	107.6	107.9	106.4	98.9	97.6	99.1	5.1
1954-----	99.4	99.8	97.2	91.8	93.1	101.5	107.8	107.3	106.2	99.3	97.4	99.2	5.1
1953-----	99.8	100.9	97.1	91.7	91.9	101.8	108.1	106.9	106.5	99.1	97.2	99.4	5.3
1952-----	99.9	101.2	97.1	91.8	91.8	101.2	108.0	106.4	106.7	99.4	97.1	99.1	5.3
1951-----	100.2	102.0	97.4	91.4	91.3	101.2	107.8	106.0	106.6	99.8	97.1	99.5	5.3
1950-----	100.2	102.7	97.3	91.6	91.5	100.7	107.0	105.5	106.3	100.3	97.4	99.6	5.1
1949-----	100.4	103.0	96.9	92.2	92.1	100.2	106.0	104.5	106.1	101.1	98.1	99.7	4.7
1948-----	100.5	103.0	97.1	92.4	92.4	99.8	105.4	104.0	105.8	101.1	99.1	99.4	4.4
1947-----	100.9	102.9	97.0	92.5	92.9	99.9	105.1	103.7	105.4	101.2	99.7	99.3	4.2
1946-----	100.6	102.6	97.1	92.6	93.9	99.7	104.9	103.6	105.0	101.4	100.1	98.6	4.0
1945-----	100.5	102.5	97.0	92.7	94.6	100.5	104.6	103.5	104.6	101.4	99.9	97.9	3.8
1944-----	100.6	102.3	96.9	92.8	95.5	100.9	104.8	103.4	104.6	101.3	100.1	97.2	3.7
1943-----	100.4	102.1	97.4	92.5	95.8	101.4	105.1	103.4	104.2	101.3	99.5	96.5	3.8
1942-----	100.4	102.1	97.4	92.5	96.2	101.8	105.6	103.9	104.4	101.0	98.9	95.3	4.0



Table 2. Seasonal indexes of live births and standard deviation of seasonal indexes, by color: United States and each geographic region, 1942-63--Con.

(Notes to tables given on page V)

Area, color, and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<b><u>NORTH CENTRAL</u></b>													
<b><u>White</u></b>													
1963-----	94.8	98.0	99.2	96.7	94.7	96.4	103.6	107.2	107.9	102.7	99.4	99.1	4.5
1962-----	94.7	98.2	99.4	96.6	94.6	97.0	103.7	106.6	107.9	102.7	99.4	99.1	4.4
1961-----	94.7	98.3	99.3	96.3	94.7	97.7	103.5	106.6	107.9	102.9	99.2	99.0	4.3
1960-----	94.7	98.3	99.0	96.1	94.8	98.3	103.8	106.1	107.8	103.2	99.3	98.8	4.3
1959-----	94.7	98.4	98.9	95.9	94.8	98.3	104.0	106.2	107.8	103.3	99.2	98.8	4.3
1958-----	94.8	98.5	98.4	95.4	95.0	98.8	104.2	106.1	107.8	103.3	99.2	98.7	4.3
1957-----	95.1	98.5	97.7	94.9	95.0	99.2	104.5	106.0	107.8	103.3	99.3	98.6	4.4
1956-----	95.3	98.6	97.3	94.6	95.1	99.4	104.8	106.2	107.7	103.1	99.3	98.5	4.5
1955-----	95.4	98.6	97.1	94.3	95.1	99.6	105.1	106.4	107.7	103.0	99.2	98.4	4.5
1954-----	95.4	98.6	97.2	94.4	95.0	100.0	105.3	106.2	107.5	103.0	99.3	98.3	4.5
1953-----	95.6	98.9	97.5	94.3	94.5	100.1	105.3	106.4	107.4	102.7	99.1	98.0	4.5
1952-----	95.9	99.0	97.9	94.3	94.4	100.3	105.2	106.3	107.3	102.7	99.2	97.7	4.5
1951-----	96.1	99.2	98.3	94.5	94.1	100.4	104.9	106.4	107.1	102.8	99.2	97.5	4.4
1950-----	96.4	99.1	98.5	94.0	94.3	100.4	104.7	106.3	106.8	103.0	99.1	97.1	4.4
1949-----	96.7	99.2	98.7	94.1	94.0	100.4	104.2	106.0	106.9	103.5	99.6	97.2	4.3
1948-----	97.1	99.2	98.2	93.7	94.1	100.4	104.1	106.0	106.6	103.6	99.7	97.2	4.3
1947-----	97.8	99.5	98.0	93.3	94.2	100.1	104.2	106.0	106.4	103.4	100.0	97.5	4.3
1946-----	98.0	99.3	97.7	93.3	94.2	99.9	104.2	105.9	106.5	103.5	100.2	97.7	4.3
1945-----	98.1	99.4	97.2	93.4	93.8	100.0	104.1	105.8	106.7	103.5	100.1	97.5	4.3
1944-----	98.3	99.2	96.9	93.3	93.7	99.9	104.5	105.7	106.8	103.7	100.3	97.6	4.4
1943-----	98.5	99.5	96.8	93.6	93.4	99.7	104.5	105.8	107.0	103.4	100.2	97.8	4.4
1942-----	98.5	99.5	96.8	93.5	93.5	99.7	105.0	106.2	107.0	103.1	100.1	97.5	4.5
<b><u>Nonwhite</u></b>													
1963-----	100.2	100.8	98.4	93.9	93.6	96.6	105.2	106.2	107.2	99.0	98.3	100.4	4.4
1962-----	100.1	100.7	98.2	93.7	93.5	96.9	105.4	106.3	107.1	99.0	98.3	100.4	4.5
1961-----	100.1	100.6	98.3	93.6	93.4	96.6	105.5	106.3	107.2	99.2	98.2	100.5	4.5
1960-----	100.3	100.7	97.9	93.3	93.4	96.9	106.1	106.3	107.2	99.2	98.2	100.5	4.6
1959-----	100.2	100.7	97.7	93.3	93.2	97.2	106.3	106.6	107.0	99.4	98.0	100.2	4.7
1958-----	100.4	100.6	97.5	93.1	93.3	97.8	106.4	106.4	107.0	99.5	98.1	99.9	4.7
1957-----	100.5	100.7	96.8	93.0	93.7	98.7	106.5	106.3	107.1	99.3	97.9	99.7	4.7
1956-----	100.7	101.0	96.3	92.7	93.9	99.7	106.2	106.1	106.8	99.4	97.9	99.4	4.6
1955-----	101.0	101.3	96.3	93.0	93.8	100.4	105.8	106.1	106.5	99.4	97.5	99.1	4.5
1954-----	100.9	101.4	96.5	93.1	94.1	101.1	105.6	106.0	106.2	99.2	97.3	98.6	4.4
1953-----	100.9	101.7	97.3	93.5	93.7	101.2	105.3	106.2	105.7	98.9	97.1	98.3	4.3
1952-----	100.9	102.0	98.2	93.1	93.7	101.1	105.5	106.1	105.2	98.5	97.3	98.4	4.3
1951-----	101.2	102.3	98.9	93.0	93.5	101.2	105.4	106.1	104.8	98.3	97.4	98.2	4.3
1950-----	101.6	102.3	99.4	92.8	93.6	100.8	105.0	106.2	104.5	98.3	97.5	97.9	4.3
1949-----	101.6	102.3	100.1	93.1	93.8	99.9	104.7	106.1	103.9	98.4	98.0	97.8	4.0
1948-----	101.7	102.3	100.1	93.3	94.1	99.3	104.6	106.3	103.6	98.0	98.6	97.7	4.0
1947-----	102.3	102.5	100.0	93.6	93.8	99.1	104.8	106.3	103.0	97.7	99.1	98.0	4.0
1946-----	102.3	102.5	100.3	93.9	94.1	98.8	104.9	106.0	102.8	97.6	99.1	97.8	3.9
1945-----	102.5	102.3	100.2	94.4	94.3	98.8	105.3	106.2	103.0	97.0	99.1	97.3	3.9
1944-----	102.4	102.4	100.0	94.6	94.3	98.8	105.7	106.2	102.8	96.7	99.0	97.3	4.0
1943-----	102.1	102.6	100.2	94.9	94.0	98.7	106.1	106.3	102.5	96.1	99.0	97.3	4.1
1942-----	102.1	102.6	100.2	94.9	94.2	99.0	106.7	106.3	102.9	95.7	98.6	96.8	4.2

Table 2. Seasonal indexes of live births and standard deviation of seasonal indexes, by color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

Area, color, and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<u>SOUTH</u>													
<u>White</u>													
1963-----	97.8	98.5	96.2	91.1	89.9	93.8	102.3	108.7	111.6	106.1	102.0	101.9	6.8
1962-----	98.0	98.4	96.2	91.0	89.7	94.0	102.4	108.6	111.6	106.1	102.0	101.9	6.8
1961-----	98.0	98.4	96.1	90.9	89.6	94.2	102.5	108.6	111.6	106.2	102.1	101.8	6.8
1960-----	98.1	98.2	95.8	90.8	89.6	94.3	102.7	108.5	111.5	106.4	102.2	101.8	6.8
1959-----	98.2	98.2	95.8	90.6	89.2	94.4	102.9	108.7	111.4	106.6	102.3	101.7	6.9
1958-----	98.2	98.3	95.5	90.2	89.1	94.4	103.0	109.2	111.7	106.4	102.3	101.7	7.1
1957-----	98.5	98.3	95.3	89.9	88.8	94.6	103.4	109.4	111.4	106.3	102.6	101.8	7.2
1956-----	98.9	98.6	94.8	89.7	88.4	94.9	103.7	109.7	111.3	106.0	102.6	101.9	7.3
1955-----	99.1	99.0	94.7	89.1	88.0	95.0	104.1	110.0	111.2	105.9	102.6	101.7	7.4
1954-----	99.5	99.3	94.8	88.7	87.7	95.2	104.2	109.8	110.9	105.8	102.5	101.6	7.4
1953-----	100.1	99.7	95.1	88.3	87.2	95.4	104.2	109.9	110.9	105.6	102.3	101.4	7.5
1952-----	100.6	100.0	95.3	87.4	86.9	95.4	104.4	109.8	110.7	105.6	102.3	101.2	7.6
1951-----	101.1	100.5	95.5	87.1	86.5	95.7	104.3	109.8	110.6	105.9	102.4	101.1	7.7
1950-----	101.4	100.7	95.5	86.8	86.5	95.6	103.8	109.6	110.7	106.1	102.4	100.7	7.7
1949-----	101.5	100.6	95.8	87.3	86.4	95.5	103.2	109.2	110.5	106.5	102.7	100.6	7.6
1948-----	101.8	100.6	95.6	87.8	86.8	95.3	102.6	108.9	110.6	106.4	103.0	100.7	7.5
1947-----	102.1	100.9	95.4	88.1	86.9	94.9	102.4	109.0	110.5	106.1	103.0	100.9	7.4
1946-----	102.1	101.0	95.4	88.5	86.9	94.5	102.3	108.8	110.5	106.1	103.1	100.9	7.4
1945-----	102.2	101.1	95.3	88.8	87.1	94.2	101.7	108.6	110.9	106.2	102.7	100.7	7.4
1944-----	102.4	101.0	95.3	88.9	87.2	94.2	101.7	108.5	110.9	106.1	102.6	100.7	7.3
1943-----	102.4	101.3	95.4	89.3	87.1	93.9	101.6	108.6	111.1	106.0	102.4	100.8	7.3
1942-----	102.4	101.3	95.4	89.3	87.3	93.9	101.7	108.8	111.4	105.7	102.0	100.4	7.3
<u>Nonwhite</u>													
1963-----	104.6	102.5	95.2	86.8	85.5	91.7	105.1	113.0	112.8	102.3	99.6	101.2	8.9
1962-----	104.6	102.2	95.2	86.9	85.3	91.9	105.3	113.1	112.4	102.3	99.6	101.2	8.9
1961-----	104.6	102.0	95.2	86.9	85.5	92.0	105.3	112.9	112.4	102.5	99.9	101.0	8.8
1960-----	104.4	101.8	95.4	86.9	85.7	92.4	105.6	112.6	112.1	102.6	99.9	100.9	8.6
1959-----	104.3	101.5	95.6	87.0	85.7	92.8	105.6	112.4	111.9	102.5	100.0	100.8	8.5
1958-----	104.1	101.5	95.8	86.8	85.9	93.6	105.7	112.2	111.4	101.9	101.1	100.5	8.3
1957-----	104.0	101.5	95.9	86.8	86.4	94.4	105.8	111.9	111.2	101.7	100.2	100.6	8.1
1956-----	104.2	101.8	96.0	86.2	86.6	95.0	106.1	111.2	110.5	101.3	100.0	100.8	8.0
1955-----	104.3	102.3	96.6	86.0	86.9	95.1	106.4	110.7	110.3	101.0	99.6	100.5	7.9
1954-----	104.5	102.8	97.6	85.7	86.8	95.8	106.4	110.3	110.0	100.4	99.1	100.4	7.9
1953-----	104.9	103.6	98.5	85.5	87.0	96.3	106.2	110.1	109.4	100.0	98.6	100.2	7.8
1952-----	105.3	104.2	99.2	85.6	87.2	96.4	106.3	109.4	108.6	99.7	98.3	99.9	7.6
1951-----	105.8	104.9	99.9	85.6	87.3	96.5	106.0	108.6	108.2	99.4	97.8	99.6	7.5
1950-----	106.3	105.5	100.1	86.5	87.9	96.3	105.2	108.1	107.8	99.4	97.5	99.4	7.2
1949-----	106.3	105.9	100.6	87.9	88.3	95.7	104.5	107.6	107.6	99.5	97.4	99.2	6.9
1948-----	106.5	105.9	100.6	89.5	88.7	95.5	103.5	106.7	107.2	99.0	97.5	99.3	6.4
1947-----	106.6	106.2	100.6	90.4	88.9	95.1	103.2	106.3	106.9	98.6	97.4	99.5	6.2
1946-----	106.6	106.0	100.7	91.9	89.2	94.9	102.9	106.0	106.7	98.3	97.3	99.5	5.9
1945-----	106.5	106.0	100.7	92.8	89.7	94.9	102.3	105.8	106.8	98.1	96.8	99.6	5.7
1944-----	106.5	105.8	100.8	92.9	89.8	94.9	102.3	105.8	106.6	98.1	96.6	99.5	5.7
1943-----	106.2	105.8	100.9	93.6	90.0	94.8	102.3	105.9	106.6	97.8	96.3	99.8	5.6
1942-----	106.2	105.8	100.9	94.1	90.3	95.0	102.5	105.9	106.8	97.2	96.2	99.5	5.5

Table 2. Seasonal indexes of live births and standard deviation of seasonal indexes, by color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

Area, color, and year	Month												Standard deviation of seasonal indexes
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
<u>WEST</u>													
<u>White</u>													
1963-----	93.8	97.0	98.1	97.2	98.6	100.7	102.9	104.5	107.6	102.4	98.3	99.3	3.8
1962-----	93.7	97.0	98.2	97.2	98.5	100.6	103.0	104.3	107.7	102.4	98.3	99.3	3.8
1961-----	93.5	97.0	98.1	97.3	98.4	100.6	103.0	104.2	107.8	102.4	98.3	99.3	3.8
1960-----	93.5	96.9	98.0	97.3	98.5	100.7	103.1	104.1	107.6	102.6	98.5	99.3	3.8
1959-----	93.4	96.8	98.0	97.3	98.4	100.7	103.2	104.2	107.5	102.6	98.6	99.3	3.8
1958-----	93.4	96.8	98.1	97.1	98.4	100.7	103.4	104.2	107.4	102.6	98.6	99.2	3.8
1957-----	93.5	96.8	98.2	97.0	98.4	100.6	103.6	104.2	107.4	102.5	98.7	99.1	3.8
1956-----	93.6	96.9	98.3	97.1	98.2	100.7	103.5	104.4	107.2	102.3	98.7	99.1	3.8
1955-----	93.9	97.1	98.4	96.9	98.2	100.7	103.6	104.6	107.1	101.9	98.6	99.0	3.7
1954-----	94.3	97.2	98.6	96.8	98.3	100.8	103.7	104.6	106.8	101.9	98.5	98.7	3.6
1953-----	94.6	97.5	98.9	96.8	98.3	100.7	103.6	104.7	106.6	101.5	98.3	98.4	3.5
1952-----	95.0	97.7	98.9	96.9	98.3	100.8	103.5	104.7	106.4	101.6	98.3	98.0	3.4
1951-----	95.4	97.8	98.9	97.1	98.5	100.8	103.3	104.8	106.1	101.3	98.4	97.8	3.3
1950-----	95.8	97.8	98.7	97.2	98.6	100.7	103.3	104.8	106.0	101.2	98.4	97.3	3.2
1949-----	96.2	97.8	98.5	97.3	98.8	100.5	103.2	104.4	105.8	101.4	98.7	97.2	3.1
1948-----	96.4	97.6	98.5	97.5	98.6	100.5	103.1	104.2	105.7	101.4	98.9	97.1	3.0
1947-----	96.7	97.7	98.2	97.6	98.4	100.6	103.0	104.2	105.7	101.2	99.1	97.2	3.0
1946-----	96.8	97.6	98.1	97.6	98.2	100.7	103.3	104.1	105.9	101.3	99.0	97.3	3.0
1945-----	97.0	97.7	98.1	97.7	98.3	100.9	103.2	103.7	105.6	101.3	98.9	97.4	2.9
1944-----	97.0	97.8	98.0	97.6	98.1	101.2	103.4	103.5	105.8	101.5	98.7	97.3	3.0
1943-----	96.9	97.9	98.1	97.7	98.0	101.4	103.2	103.2	105.5	101.4	98.8	97.4	2.9
1942-----	96.9	97.9	98.1	97.7	98.1	101.4	103.5	103.4	105.5	101.3	98.5	97.4	2.9
<u>Nonwhite</u>													
1963-----	97.9	98.2	99.5	96.7	97.9	100.6	102.6	104.2	106.8	100.7	99.3	95.8	3.2
1962-----	97.8	98.2	99.3	97.1	97.7	100.5	102.8	104.4	106.6	100.7	99.3	95.8	3.2
1961-----	97.8	98.1	99.6	97.1	97.3	100.6	102.9	104.4	106.4	100.8	99.0	96.1	3.2
1960-----	97.7	98.1	99.7	97.3	97.1	100.6	103.2	104.5	106.1	100.6	99.0	96.3	3.1
1959-----	97.9	98.3	100.0	97.3	96.9	100.3	103.3	104.8	106.0	100.4	98.8	96.3	3.2
1958-----	97.8	98.7	100.0	97.3	96.6	100.1	103.5	105.2	105.9	100.2	98.8	96.1	3.2
1957-----	97.8	98.8	99.7	97.2	96.6	99.9	103.9	105.3	105.6	100.2	98.5	96.3	3.3
1956-----	98.2	98.7	99.8	97.1	96.6	99.5	104.4	104.9	105.8	99.8	98.3	96.5	3.3
1955-----	99.1	98.5	100.1	96.5	96.7	99.3	104.6	104.8	105.6	99.8	98.2	96.7	3.3
1954-----	99.6	99.0	100.0	96.0	97.0	99.4	104.9	104.4	105.6	99.5	97.9	96.6	3.3
1953-----	100.6	99.1	100.0	95.5	97.1	99.5	104.5	104.2	105.8	99.0	97.9	96.6	3.3
1952-----	101.0	99.4	99.8	95.7	97.2	99.6	104.1	104.0	105.6	98.9	97.7	96.7	3.1
1951-----	101.6	99.7	100.2	95.5	97.6	99.4	103.4	104.2	105.5	98.6	97.5	96.8	3.1
1950-----	101.2	100.6	100.3	95.4	97.6	99.0	102.9	104.6	105.1	98.0	98.0	96.8	3.0
1949-----	100.9	101.5	100.1	95.9	97.9	99.2	102.4	104.6	104.2	98.2	98.6	96.8	2.8
1948-----	100.6	102.0	99.8	96.9	97.8	98.9	102.3	104.1	104.0	97.8	99.3	96.5	2.6
1947-----	100.7	102.0	99.6	97.8	98.2	98.1	102.1	104.5	103.3	97.3	99.8	96.7	2.5
1946-----	100.9	102.0	99.7	98.6	98.0	98.3	102.3	104.0	103.2	97.5	99.4	96.2	2.5
1945-----	101.2	102.2	99.8	99.2	98.0	99.0	102.3	103.8	103.2	97.0	99.0	95.6	2.5
1944-----	101.4	102.3	99.5	99.9	98.0	99.2	102.5	103.4	103.3	96.7	98.8	95.3	2.6
1943-----	101.9	102.2	99.3	100.4	98.0	100.0	101.9	102.9	103.5	96.7	98.4	94.8	2.7
1942-----	101.9	102.2	99.3	100.8	97.9	100.8	101.9	103.1	104.1	96.2	97.6	94.0	3.0

Table 3. Fertility rates by month; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1933-63

(Notes to tables given on page V)

Year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Observed rates per 1,000 women aged 15-44 years												
1963-----	107.56	108.99	107.68	105.40	105.45	108.08	113.42	115.42	118.37	111.85	106.33	106.27
1962-----	111.24	113.69	113.04	109.02	107.67	108.65	116.10	121.08	121.61	115.78	111.35	111.10
1961-----	115.86	118.84	118.02	113.36	112.02	115.54	121.97	125.65	126.97	120.22	116.11	114.70
1960-----	114.65	116.90	116.03	112.05	110.33	113.81	123.80	129.69	132.27	122.32	119.18	120.40
1959-----	116.96	119.53	119.74	114.30	112.69	118.15	124.55	126.52	129.62	122.31	118.53	118.69
1958-----	116.39	119.67	117.25	113.67	115.41	117.69	121.42	123.65	131.22	125.45	120.10	119.90
1957-----	118.18	119.80	118.71	116.55	117.33	122.34	129.17	129.54	132.18	127.55	121.85	120.36
1956-----	116.81	119.58	118.73	109.70	108.42	118.53	127.27	139.56	132.89	126.82	121.73	121.71
1955-----	113.57	117.13	114.74	110.26	112.43	115.79	122.16	126.57	128.87	122.01	119.72	118.83
1954-----	117.20	116.10	115.80	117.80	117.10	117.70	117.70	117.10	117.70	117.90	119.80	118.50
1953-----	114.30	114.20	112.90	111.30	113.60	116.00	116.60	115.60	114.90	112.30	115.10	118.80
1952-----	109.04	112.27	110.94	105.53	105.02	112.46	120.74	122.47	124.08	117.42	113.74	112.91
1951-----	106.36	109.43	109.58	107.10	109.60	111.00	114.90	117.00	118.87	115.17	110.00	109.14
1950-----	104.66	106.21	103.44	94.07	96.94	106.70	110.84	114.16	114.40	109.46	106.03	105.67
1949-----	106.22	107.30	106.43	99.17	99.76	104.45	112.64	114.20	114.26	110.12	106.25	103.54
1948-----	106.23	109.73	107.90	102.98	97.68	99.19	110.39	114.98	115.63	110.13	107.40	105.85
1947-----	123.12	120.83	117.69	109.10	109.53	112.55	114.79	115.21	115.44	111.08	107.22	103.93
1946-----	81.50	83.56	83.45	83.28	85.22	91.35	104.41	113.96	122.52	123.61	124.90	123.21
1945-----	87.76	88.14	85.62	82.33	82.21	85.88	89.15	89.92	90.30	85.31	83.17	81.94
1944-----	88.65	89.69	85.69	82.68	83.37	89.35	95.30	94.79	91.99	88.48	88.70	87.58
1943-----	99.45	99.59	96.76	92.30	89.63	93.83	97.87	98.71	98.12	92.13	87.93	86.31
1942-----	86.28	88.60	87.23	83.07	81.97	86.23	91.65	95.58	101.85	101.62	97.60	95.68
1941-----	80.41	82.82	82.98	81.19	77.52	85.23	91.45	89.51	86.72	80.84	80.43	81.43
1940-----	77.74	80.48	79.15	77.04	77.44	79.25	83.69	85.03	84.69	78.97	76.19	76.23
1939-----	77.89	79.22	79.26	76.36	73.75	75.74	80.79	82.01	82.21	77.60	73.60	72.19
1938-----	79.73	81.62	80.27	77.85	76.80	77.54	82.87	83.85	82.76	78.13	75.58	74.14
1937-----	75.62	78.36	78.58	75.18	74.90	75.87	80.73	83.10	82.06	75.77	73.59	74.26
1936-----	76.69	79.44	79.23	73.98	71.54	76.41	80.03	79.76	79.47	74.70	71.87	70.79
1935-----	79.13	80.49	78.73	75.50	74.08	78.28	81.25	81.42	80.92	75.17	73.13	72.48
1934-----	78.61	79.23	76.93	74.82	76.80	77.53	80.42	83.63	85.03	80.24	77.43	75.89
1933-----	78.57	79.92	79.87	76.90	75.87	75.86	78.40	78.76	74.96	72.24	74.09	74.33

Table 3. Fertility rates by month; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1933-63—Con.

(Notes to tables given on page V)

Year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Seasonally adjusted rates per 1,000 women aged 15-44 years												
1963-----	111.46	110.54	109.77	110.83	111.71	111.19	109.80	108.27	108.90	108.80	106.86	106.70
1962-----	115.27	115.30	115.11	114.76	114.30	111.55	112.39	113.80	111.88	112.63	111.91	111.55
1961-----	120.19	120.41	120.31	119.58	118.79	118.38	118.19	118.43	116.70	116.72	116.69	115.16
1960-----	118.81	118.44	118.40	118.20	117.00	116.37	119.85	122.70	121.80	118.64	119.78	121.01
1959-----	121.08	120.98	122.06	120.82	119.50	120.68	120.45	119.81	119.47	118.63	119.13	119.29
1958-----	120.36	120.88	119.64	120.41	122.13	120.09	117.31	117.43	121.05	121.80	120.58	120.50
1957-----	121.71	121.13	121.26	123.59	123.38	124.20	125.04	123.84	122.39	124.08	122.22	120.84
1956-----	119.81	120.91	121.40	116.21	113.29	119.85	123.44	133.81	123.73	123.85	121.97	121.95
1955-----	116.24	118.07	117.32	116.80	117.36	116.84	118.37	121.47	120.33	119.50	120.08	119.31
1954-----	119.59	116.92	118.04	124.26	122.23	118.53	113.94	112.27	110.41	115.59	120.28	119.22
1953-----	116.40	114.66	114.97	117.28	119.33	116.58	112.88	110.52	107.89	110.31	115.79	119.76
1952-----	110.93	112.72	112.86	110.85	111.13	113.03	116.77	116.75	116.73	115.34	114.54	114.28
1951-----	107.76	109.43	111.14	112.86	116.60	111.33	111.23	111.32	112.04	113.02	110.55	110.58
1950-----	106.04	106.10	104.91	99.65	104.01	107.34	107.09	108.21	107.42	107.00	106.67	107.72
1949-----	107.62	107.09	107.83	105.39	107.50	105.40	108.94	107.94	106.88	107.02	106.57	105.55
1948-----	107.41	109.62	109.77	109.79	105.26	100.29	106.97	108.68	108.17	106.92	107.29	107.79
1947-----	124.11	120.59	120.21	116.81	117.77	113.80	111.34	108.89	108.09	108.16	106.90	105.62
1946-----	82.07	83.48	85.24	88.97	91.54	92.55	101.17	107.81	114.72	120.36	124.65	125.21
1945-----	88.11	87.61	87.28	87.68	88.02	87.01	86.55	85.23	84.47	83.15	83.17	83.44
1944-----	88.92	88.98	87.08	87.58	89.26	90.34	92.34	89.85	86.29	86.32	89.33	89.55
1943-----	99.65	98.31	97.94	97.16	95.55	94.97	94.74	93.48	92.13	90.68	89.18	88.61
1942-----	86.37	87.20	87.67	86.89	87.02	87.45	88.47	90.34	95.81	100.61	99.90	99.05
1941-----	80.33	81.20	82.98	84.31	81.86	86.44	88.02	84.60	81.89	80.68	83.00	84.91
1940-----	77.74	78.75	78.52	79.42	81.17	80.62	80.47	80.22	79.97	79.45	79.20	80.07
1939-----	77.89	77.29	78.24	78.56	76.90	76.97	77.61	77.51	77.85	78.46	76.91	76.23
1938-----	79.81	79.63	79.16	79.93	79.75	78.56	79.38	79.18	78.67	79.16	79.31	78.46
1937-----	75.62	76.37	77.50	77.35	77.54	76.95	77.40	78.77	77.93	76.69	77.14	78.75
1936-----	76.69	77.50	78.06	76.03	73.83	77.42	76.88	75.82	75.54	75.68	75.34	75.07
1935-----	79.05	78.37	77.72	77.67	76.14	79.15	78.13	77.47	76.92	76.31	76.58	76.78
1934-----	78.53	77.22	75.94	77.05	78.77	78.31	77.48	79.80	80.75	81.46	81.08	80.31
1933-----	78.49	77.89	78.85	79.28	77.66	76.47	75.68	75.37	71.25	73.19	77.42	78.66

Table 3. Fertility rates by month; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1933-63—Con.

(Notes to tables given on page V)

Year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Trend-cycle: rates per 1,000 women aged 15-44 years											
1963-----	111.34	110.91	110.90	110.93	110.67	110.37	109.89	109.38	108.82	---	---	---
1962-----	115.45	115.25	114.94	114.42	114.03	113.46	113.04	112.81	112.41	112.26	112.01	111.52
1961-----	120.25	120.24	119.85	119.26	119.11	118.63	118.08	117.79	117.25	116.74	116.27	115.72
1960-----	118.77	118.51	118.16	118.07	117.91	118.48	119.08	119.69	120.34	120.35	120.35	120.43
1959-----	121.12	121.18	121.36	121.10	120.81	120.45	120.06	119.74	119.47	119.11	119.03	118.80
1958-----	120.97	120.47	120.54	120.61	120.08	119.51	119.51	119.41	119.63	120.36	120.80	121.00
1957-----	121.78	121.89	122.26	122.97	123.73	124.05	124.16	123.84	123.40	122.60	122.01	121.44
1956-----	119.91	120.10	119.76	120.37	120.52	121.10	122.36	123.04	122.94	123.04	122.50	122.03
1955-----	117.44	117.52	117.41	117.20	117.69	118.13	118.76	119.47	119.96	120.06	119.85	119.71
1954-----	117.74	118.80	119.14	118.67	117.70	116.92	115.52	114.92	115.15	115.80	117.18	117.57
1953-----	115.35	115.47	115.94	116.06	115.36	114.93	113.64	112.36	112.22	113.34	115.43	117.15
1952-----	111.41	111.43	111.65	112.07	112.88	113.87	115.05	116.04	115.86	115.72	115.42	115.25
1951-----	108.91	109.64	110.39	111.03	111.43	111.41	111.55	111.77	111.95	111.73	111.48	111.44
1950-----	105.66	105.18	104.97	105.16	105.66	106.38	107.07	107.07	107.46	107.50	107.71	108.12
1949-----	107.50	107.76	107.57	107.51	107.68	107.53	107.26	107.37	106.88	106.60	106.13	105.76
1948-----	107.79	108.34	109.20	109.49	109.02	108.34	107.77	107.57	107.63	107.56	107.44	107.49
1947-----	123.59	122.66	120.76	118.43	115.94	113.52	111.13	109.51	107.97	107.20	107.00	107.14
1946-----	82.71	83.85	85.63	88.28	92.15	97.22	103.06	109.02	114.70	118.33	122.13	123.94
1945-----	88.18	88.15	87.88	87.91	87.78	87.32	86.40	85.26	84.39	83.49	82.71	82.38
1944-----	88.42	88.26	88.45	88.69	89.22	89.65	89.83	89.37	88.86	88.48	88.33	88.23
1943-----	99.65	99.27	98.36	97.43	96.33	95.35	94.22	93.07	91.74	90.43	89.50	88.88
1942-----	85.70	86.02	86.60	86.94	87.13	88.22	89.42	91.70	94.42	97.19	99.06	99.72
1941-----	80.75	81.46	82.43	83.33	84.38	84.62	84.75	83.98	83.80	83.55	84.39	85.06
1940-----	77.55	78.03	78.89	79.52	80.01	80.43	80.62	80.35	79.97	79.82	79.70	79.93
1939-----	78.43	78.04	77.63	77.58	77.47	77.40	77.48	77.61	77.65	77.45	77.39	77.44
1938-----	79.21	79.51	79.52	79.31	79.20	79.18	79.10	79.01	79.19	79.31	78.96	78.61
1937-----	75.82	76.35	76.88	77.14	77.30	77.38	77.46	77.54	77.59	78.01	78.43	78.74
1936-----	76.90	76.94	77.04	77.19	77.12	76.68	76.42	76.17	75.81	75.47	75.36	75.52
1935-----	79.32	78.58	78.00	77.70	77.80	77.79	77.61	77.40	77.12	76.68	76.53	76.77
1934-----	77.26	77.37	77.43	77.59	77.89	78.52	79.23	79.97	80.47	80.78	80.50	79.96
1933-----	---	---	---	78.09	77.25	76.88	76.43	75.91	75.95	76.70	77.49	77.81

Table 4. Fertility rates by month and color; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1942-63

(Notes to tables given on page V)

Color and year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<u>White</u>	Observed rates per 1,000 women aged 15-44 years											
1963-----	105.39	107.15	107.14	105.59	105.46	107.59	111.95	113.43	116.70	111.38	105.41	104.71
1962-----	109.16	112.20	112.48	108.91	107.64	108.38	114.92	119.45	120.15	115.13	110.49	109.85
1961-----	109.16	112.93	112.86	109.33	107.90	110.73	115.50	119.38	120.95	114.92	110.71	109.18
1960-----	108.17	111.17	111.10	107.78	106.39	109.18	118.07	123.43	126.03	117.16	114.06	114.93
1959-----	110.34	113.66	114.90	110.27	108.63	112.79	118.32	119.77	123.68	117.31	113.16	113.31
1958-----	110.18	114.44	112.69	109.84	111.70	113.62	116.45	116.81	124.34	119.98	114.44	114.16
1957-----	112.17	114.25	113.55	112.60	113.28	117.47	123.03	123.30	126.26	122.65	116.96	115.22
1956-----	110.71	113.95	113.59	105.78	104.82	113.65	121.62	134.10	127.02	122.03	116.68	116.47
1955-----	108.19	111.98	110.46	106.58	108.73	111.40	117.00	120.92	123.51	117.61	114.62	113.80
1954-----	109.66	111.34	108.49	105.91	106.79	112.62	118.90	120.32	122.97	117.58	115.24	113.41
1953-----	107.16	109.81	105.99	100.37	103.99	111.23	118.13	118.84	120.15	112.64	110.60	113.37
1952-----	104.42	107.79	107.24	102.91	102.56	109.07	116.43	118.06	119.99	113.92	110.32	108.98
1951-----	101.33	104.82	105.37	103.95	106.52	107.32	110.59	112.97	114.82	112.06	106.75	105.40
1950-----	100.16	101.64	99.51	91.25	93.94	103.22	106.72	109.78	110.19	105.96	102.35	101.56
1949-----	102.15	103.29	102.94	96.59	96.96	101.19	108.54	110.24	110.50	106.99	102.89	99.79
1948-----	102.77	106.19	104.93	100.37	95.19	96.73	106.99	111.63	112.21	107.57	104.61	102.50
1947-----	121.33	119.31	116.43	108.31	108.90	111.54	113.27	113.22	113.38	109.48	105.16	101.39
1946-----	78.50	80.70	81.09	81.77	84.03	90.03	103.44	113.02	121.93	123.19	123.78	121.62
1945-----	84.56	84.95	82.92	79.86	80.10	83.83	86.77	87.54	87.88	83.38	80.80	79.39
1944-----	85.85	87.04	83.16	80.44	81.44	87.09	92.55	92.04	89.84	86.53	86.43	84.74
1943-----	97.32	97.33	94.37	90.36	87.93	92.02	95.58	96.22	95.96	90.52	86.12	84.29
1942-----	83.10	85.40	84.60	80.52	80.06	84.39	89.57	93.39	100.10	100.87	96.87	94.68
<u>White</u>	Seasonally adjusted rates per 1,000 women aged 15-44 years											
1963-----	110.13	109.00	108.77	109.88	110.78	110.35	109.11	106.51	108.06	108.24	106.26	104.92
1962-----	114.06	114.14	114.08	113.45	113.31	110.93	111.79	112.48	111.04	111.89	111.38	110.07
1961-----	114.30	114.77	114.58	114.12	113.46	113.11	112.46	112.41	111.78	111.46	111.60	109.62
1960-----	113.15	113.09	113.02	112.62	111.75	111.29	114.74	116.66	116.48	113.31	114.86	115.51
1959-----	115.42	115.51	116.89	115.59	114.23	114.97	114.76	113.20	114.31	113.34	113.84	113.88
1958-----	115.49	116.42	115.22	115.74	117.46	115.58	112.84	110.51	114.70	115.70	114.90	114.96
1957-----	117.33	116.23	116.46	119.03	119.12	119.26	118.87	116.87	116.58	118.27	117.19	116.03
1956-----	115.44	115.69	116.98	112.06	110.45	115.15	117.17	126.99	117.50	117.79	116.91	117.29
1955-----	112.58	113.57	113.88	113.26	114.82	112.75	112.39	114.18	114.26	113.74	114.85	114.83
1954-----	113.87	112.81	111.62	112.67	113.13	113.64	114.00	113.62	113.97	113.71	115.59	114.56
1953-----	110.82	110.81	108.71	107.12	110.75	112.13	113.15	111.90	111.46	109.25	111.04	114.75
1952-----	107.65	108.66	109.76	109.83	109.46	110.06	111.52	111.17	111.51	110.39	110.76	110.64
1951-----	104.14	105.45	107.63	110.82	114.29	108.08	106.03	106.27	106.81	108.48	107.07	107.11
1950-----	102.73	102.25	101.44	97.70	100.90	103.95	102.52	103.27	102.60	102.38	102.66	103.53
1949-----	104.55	104.02	104.93	103.30	104.37	102.01	104.67	103.90	102.98	103.17	102.68	101.83
1948-----	104.87	106.94	107.29	107.46	102.24	97.61	103.47	105.41	104.67	103.63	104.19	104.49
1947-----	123.30	120.03	119.54	116.21	116.85	112.67	109.55	107.01	105.76	105.68	104.43	103.14
1946-----	79.61	81.27	83.43	87.64	90.16	91.12	100.14	106.93	113.53	118.68	122.80	123.47
1945-----	85.67	85.46	85.57	85.41	85.85	84.85	84.16	82.98	81.52	80.41	80.16	80.68
1944-----	86.72	87.65	86.00	86.03	87.10	88.15	89.68	87.41	83.26	83.44	85.74	86.12
1943-----	98.20	97.82	97.69	96.44	94.14	93.33	92.71	91.38	88.77	87.54	85.52	85.49
1942-----	83.85	85.83	87.58	86.03	85.63	85.59	86.62	88.52	92.26	97.84	96.39	96.22
<u>White</u>	Trend-cycle: rates per 1,000 women aged 15-44 years											
1963-----	109.99	109.57	109.47	109.72	109.68	109.57	109.21	108.73	108.10	---	---	---
1962-----	113.40	113.83	113.91	113.32	113.09	112.54	112.18	111.93	111.61	111.36	111.01	110.41
1961-----	114.72	114.72	114.28	113.81	113.52	113.05	112.59	112.21	111.94	111.79	112.21	112.70
1960-----	113.26	113.01	112.64	112.55	112.64	113.42	114.21	114.91	115.62	115.42	115.20	114.94
1959-----	115.52	115.53	115.56	115.42	115.02	114.70	114.35	114.15	114.02	113.87	113.67	113.59
1958-----	116.17	115.69	115.85	115.67	115.47	114.97	114.93	114.68	114.61	115.06	115.22	115.23
1957-----	117.15	117.31	117.61	118.19	118.68	118.64	118.39	117.96	117.58	117.08	116.75	116.58
1956-----	115.18	115.61	115.29	115.50	115.31	115.63	116.38	117.04	117.09	117.36	117.29	117.28
1955-----	113.82	113.76	113.70	113.61	113.60	113.48	113.37	113.68	113.85	114.29	114.56	114.90
1954-----	112.81	112.81	112.87	112.77	112.97	113.54	113.63	113.72	114.05	114.16	114.15	114.18
1953-----	110.56	110.44	110.36	110.73	111.21	111.70	112.05	111.77	111.70	111.77	112.20	112.59
1952-----	108.16	108.62	109.16	109.68	110.02	110.43	110.81	111.00	111.05	110.94	110.81	110.63
1951-----	104.90	105.61	106.68	107.33	107.33	106.83	106.69	106.94	107.14	107.15	107.49	107.85
1950-----	101.84	101.43	101.40	101.45	101.59	102.15	102.57	102.66	102.93	103.17	103.44	104.17
1949-----	104.22	104.55	104.22	104.13	104.13	103.95	103.65	103.60	103.08	102.75	102.23	101.90
1948-----	105.35	105.75	106.57	106.54	106.02	105.08	104.35	104.11	104.24	104.12	104.08	104.11
1947-----	123.00	122.13	120.02	117.45	114.74	112.13	109.43	107.64	105.92	105.01	104.54	104.69
1946-----	80.38	81.72	83.80	86.52	90.60	95.94	102.04	108.21	113.91	117.50	121.10	123.14
1945-----	85.51	85.58	85.62	85.55	85.36	84.81	84.00	82.82	81.73	80.91	80.15	79.83
1944-----	85.82	86.07	86.63	86.92	87.19	87.48	87.88	87.49	86.54	85.91	85.74	85.55
1943-----	97.98	98.07	97.54	96.58	95.16	93.70	92.14	90.48	88.76	87.27	86.33	85.87
1942-----	---	---	---	84.34	84.78	86.17	87.16	89.03	91.21	93.90	96.08	97.30

Table 4. Fertility rates by month and color; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1942-63—Con.

(Notes to tables given on page V)

Color and year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Nonwhite</b>												
Observed rates per 1,000 women aged 15-44 years												
1963-----	155.43	154.82	143.67	135.31	136.40	143.52	157.38	163.62	165.02	147.81	143.86	148.45
1962-----	158.62	157.49	149.95	141.43	139.06	142.69	159.43	169.19	168.56	155.03	150.84	153.33
1961-----	165.42	162.55	156.15	143.14	142.42	150.99	169.71	171.95	171.38	159.28	155.97	155.44
1960-----	163.08	159.67	152.58	143.73	139.57	148.14	166.29	176.00	178.44	160.52	157.02	160.84
1959-----	167.49	164.29	156.69	145.05	143.60	158.96	171.90	177.66	174.48	159.99	158.97	158.99
1958-----	163.86	159.68	152.19	142.96	143.81	148.80	159.39	175.88	183.81	167.20	163.29	163.74
1957-----	164.29	162.36	158.21	146.85	148.35	159.58	176.15	177.29	177.51	165.08	159.32	159.72
1956-----	163.81	162.86	158.26	139.82	136.07	156.00	170.62	178.81	177.94	163.60	160.51	161.87
1955-----	155.20	157.02	147.85	138.65	140.98	149.68	161.94	170.15	170.15	155.92	156.65	157.58
1954-----	156.02	152.26	140.66	134.65	137.51	151.09	165.82	167.78	168.82	153.86	154.90	154.56
1953-----	151.45	147.63	137.63	124.39	129.16	147.67	162.52	162.79	161.09	142.59	147.40	153.48
1952-----	145.53	147.63	140.12	126.16	124.36	139.14	154.63	157.21	156.23	144.94	140.56	143.76
1951-----	146.29	146.04	142.97	132.13	134.06	140.21	149.10	148.92	150.92	139.80	135.70	138.64
1950-----	140.49	142.59	134.76	116.48	120.77	134.63	143.90	149.49	148.61	138.14	136.27	139.36
1949-----	138.70	139.40	134.24	119.74	122.10	130.41	145.37	145.85	144.24	135.14	133.03	133.44
1948-----	133.94	138.07	131.70	123.90	117.62	118.96	137.65	141.77	142.98	130.58	129.74	132.63
1947-----	137.53	133.05	127.81	115.44	114.55	120.59	127.00	131.13	131.95	123.91	123.73	124.31
1946-----	105.65	106.65	102.52	95.53	94.84	102.03	112.25	121.53	127.26	127.00	133.85	136.05
1945-----	113.64	113.93	107.47	102.25	99.27	102.50	108.45	109.10	109.83	100.84	102.28	102.51
1944-----	111.36	111.17	106.24	100.83	99.01	107.66	117.56	117.05	109.34	104.26	107.11	110.53
1943-----	116.70	117.91	116.21	108.09	103.37	108.53	116.50	118.94	115.64	105.24	102.58	102.72
1942-----	112.15	114.68	108.65	103.89	97.51	101.26	108.55	113.44	116.04	107.75	103.57	103.77
<b>Nonwhite</b>												
Seasonally adjusted rates per 1,000 women aged 15-44 years												
1963-----	151.79	152.83	149.04	150.18	152.23	151.87	150.03	148.88	149.61	146.20	145.02	148.15
1962-----	154.90	155.62	155.55	156.97	155.55	150.99	151.41	153.81	153.10	153.34	152.06	153.02
1961-----	161.39	160.94	162.15	158.87	159.13	159.95	161.02	156.46	155.66	157.39	157.23	155.28
1960-----	159.41	158.25	158.28	159.70	155.94	156.27	157.32	160.29	162.37	158.46	158.29	160.84
1959-----	163.56	163.15	162.37	161.35	160.63	166.97	162.32	161.66	159.05	158.09	160.25	158.99
1958-----	160.18	158.57	158.04	159.91	160.68	154.84	149.94	160.33	167.86	165.71	164.61	163.90
1957-----	160.60	161.23	164.46	164.63	165.57	165.03	165.71	161.76	162.26	163.93	160.44	160.04
1956-----	159.81	161.25	164.68	157.28	151.69	160.33	160.06	163.60	163.25	162.62	161.80	162.19
1955-----	151.12	154.85	153.21	156.31	157.34	153.83	151.63	155.96	156.39	155.14	158.39	157.90
1954-----	151.77	149.57	144.71	151.63	153.81	154.65	155.41	154.21	155.45	153.55	157.26	155.03
1953-----	146.75	144.03	140.73	140.08	145.12	150.84	152.74	149.90	148.74	142.88	150.10	154.10
1952-----	140.74	143.33	142.54	141.59	139.57	142.27	145.33	145.43	144.93	145.38	143.43	144.63
1951-----	141.21	141.10	144.27	147.47	150.80	143.22	140.66	138.40	140.65	140.64	138.75	139.48
1950-----	134.83	136.97	135.71	129.14	135.54	137.94	136.66	139.32	138.76	138.97	139.48	140.63
1949-----	133.37	133.65	134.51	131.73	136.42	134.44	138.84	136.56	134.80	135.82	136.16	134.92
1948-----	128.54	132.25	132.10	134.82	130.69	132.15	132.48	133.49	134.00	131.77	132.52	134.11
1947-----	131.61	127.20	128.19	125.07	127.00	125.09	122.59	123.71	123.78	125.54	126.26	125.31
1946-----	101.10	102.06	102.52	102.94	104.68	106.06	108.45	114.65	119.49	128.80	136.58	137.01
1945-----	108.85	109.13	107.47	109.59	109.09	106.55	105.39	103.22	103.03	102.58	104.58	103.03
1944-----	106.56	106.69	106.24	107.96	108.44	111.91	114.25	110.74	102.57	106.17	109.63	111.20
1943-----	112.21	113.05	116.09	115.11	113.10	112.93	113.11	112.42	108.48	107.39	105.21	102.93
1942-----	107.84	109.95	108.54	110.29	106.45	105.15	105.39	107.32	109.16	110.40	106.33	103.98
<b>Nonwhite</b>												
Trend-cycle: rates per 1,000 women aged 15-44 years												
1963-----	152.13	151.50	151.42	151.27	150.83	150.63	150.51	150.01	149.16	---	---	---
1962-----	155.45	155.29	155.37	155.22	154.68	153.92	153.39	153.00	152.96	152.94	152.89	152.57
1961-----	160.62	161.01	160.60	160.29	160.02	159.28	158.29	157.80	157.02	156.21	155.99	155.74
1960-----	159.17	158.87	158.28	157.96	157.42	157.91	158.23	158.61	159.36	159.81	159.91	160.29
1959-----	163.73	163.12	162.53	161.90	161.58	161.52	160.98	160.60	160.08	159.69	159.46	159.03
1958-----	159.51	158.99	159.11	159.26	159.53	159.53	160.66	161.96	163.32	164.09	164.01	164.22
1957-----	162.17	162.84	163.44	164.45	165.10	164.79	164.36	163.74	162.72	161.99	161.14	160.45
1956-----	159.30	160.44	160.66	160.18	159.86	160.36	161.36	161.84	161.97	162.23	162.07	161.79
1955-----	154.56	154.87	155.02	155.00	155.03	154.93	154.73	154.80	155.33	156.46	157.42	158.58
1954-----	151.21	151.34	151.71	152.34	153.26	154.29	154.26	154.79	155.05	154.97	155.11	154.87
1953-----	144.25	143.70	143.98	144.53	145.91	147.86	149.60	149.72	150.26	150.49	150.55	151.09
1952-----	140.97	141.54	141.96	142.25	142.52	142.79	143.95	144.61	144.67	144.78	144.68	144.42
1951-----	141.84	142.60	143.39	143.98	143.18	141.84	140.65	140.25	140.18	139.58	139.82	140.50
1950-----	135.63	135.35	135.68	136.12	136.66	137.04	137.94	138.35	139.00	139.57	140.26	140.82
1949-----	133.00	133.73	133.95	134.46	135.59	136.04	136.01	136.35	135.95	135.76	135.36	135.34
1948-----	128.50	129.90	131.33	132.34	132.48	132.68	132.95	132.83	133.28	133.03	132.86	133.01
1947-----	128.69	128.12	128.23	127.25	125.71	124.84	123.93	124.09	124.16	124.74	125.80	126.86
1946-----	102.04	101.96	102.12	103.03	104.73	107.27	111.17	114.95	118.16	123.16	125.96	128.97
1945-----	109.25	109.08	108.67	108.15	107.81	106.74	105.45	104.28	103.78	103.29	102.84	102.43
1944-----	105.73	106.03	106.97	107.92	109.03	110.34	111.14	111.02	110.85	109.87	109.94	109.52
1943-----	113.13	114.04	114.26	114.24	114.06	113.34	112.15	110.87	109.30	107.60	106.37	105.61
1942-----	---	---	---	105.21	105.10	105.59	106.54	107.30	108.17	109.69	110.83	112.05



Table 5. Birth rates by month; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1933-63

(Notes to tables given on page V)

Year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Observed rates per 1,000 population											
1963-----	21.53	21.82	21.57	21.12	21.13	21.66	22.73	23.13	23.72	22.41	21.31	21.30
1962-----	22.18	22.68	22.56	21.77	21.52	21.73	23.24	24.24	24.34	23.17	22.29	22.24
1961-----	23.15	23.73	23.55	22.60	22.32	23.01	24.29	25.03	25.29	23.95	23.15	22.88
1960-----	23.07	23.52	23.32	22.51	22.15	22.83	24.82	25.98	26.46	24.46	23.83	24.07
1959-----	23.68	24.19	24.22	23.10	22.77	23.86	25.14	25.53	26.14	24.65	23.88	23.90
1958-----	23.73	24.40	23.90	23.15	23.50	23.95	24.70	25.13	26.65	25.46	24.35	24.29
1957-----	24.31	24.62	24.38	23.92	24.06	25.07	26.45	26.51	27.02	26.07	24.88	24.56
1956-----	24.32	24.88	24.68	22.78	22.49	24.57	26.35	27.21	27.45	26.16	25.09	25.06
1955-----	23.99	24.72	24.19	23.21	23.64	24.31	25.62	26.52	26.96	25.49	24.98	24.77
1954-----	24.69	24.89	24.04	23.37	23.58	24.98	26.50	26.77	27.25	25.83	25.37	24.99
1953-----	24.45	24.85	23.84	22.40	23.19	25.01	26.68	26.79	26.96	25.03	24.73	25.37
1952-----	24.10	24.79	24.47	23.25	23.12	24.73	26.52	26.87	27.18	25.69	24.85	24.64
1951-----	23.81	24.48	24.49	23.91	24.45	24.74	25.58	26.01	26.39	25.55	24.38	24.15
1950-----	23.72	24.04	23.39	21.25	21.89	24.08	24.98	25.71	25.74	24.61	23.82	23.71
1949-----	24.48	24.71	24.49	22.80	22.91	23.96	25.82	26.14	26.12	25.15	24.24	23.59
1948-----	24.76	25.55	25.11	23.94	22.69	23.02	25.60	26.64	26.76	25.46	24.80	24.42
1947-----	29.11	28.52	27.74	25.68	25.74	26.41	26.91	26.98	27.01	25.96	25.03	24.24
1946-----	19.31	19.80	19.77	19.72	20.17	21.61	24.68	26.91	28.90	29.13	29.40	28.70
1945-----	20.89	20.97	20.36	19.57	19.53	20.39	21.16	21.34	21.42	20.23	19.72	19.42
1944-----	21.23	21.47	20.50	19.77	19.93	21.34	22.75	22.62	21.94	21.09	21.14	20.86
1943-----	23.98	24.00	23.31	22.22	21.56	22.56	23.52	23.71	23.56	22.11	21.08	20.69
1942-----	20.92	21.48	21.14	20.13	19.86	20.88	22.18	23.12	24.62	24.55	23.57	23.09
1941-----	19.52	20.11	20.15	19.71	18.83	20.70	22.21	21.73	21.05	19.62	19.51	19.75
1940-----	18.90	19.57	19.25	18.85	18.96	19.34	20.36	20.69	20.60	19.22	18.54	18.52
1939-----	18.90	19.23	19.24	18.54	17.91	18.39	19.62	19.92	19.97	18.86	17.89	17.55
1938-----	19.32	19.78	19.45	18.87	18.62	18.80	20.10	20.34	20.07	18.95	18.34	17.99
1937-----	18.28	18.95	19.01	18.19	18.13	18.36	19.54	20.12	19.87	18.35	17.82	17.99
1936-----	18.49	19.16	19.11	17.85	17.26	18.44	19.32	19.26	19.20	18.05	17.37	17.11
1935-----	19.03	19.36	18.94	18.17	17.83	18.85	19.56	19.61	19.49	18.11	17.63	17.47
1934-----	18.86	19.01	18.47	17.96	18.44	18.62	19.32	20.09	20.44	19.29	18.62	18.25
1933-----	19.18	19.44	19.35	18.56	18.24	18.19	18.78	18.87	17.97	17.32	17.77	17.83

Table 5. Birth rates by month; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1933-63

(Notes to tables given on page V)

Year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Seasonally adjusted rates per 1,000 population											
1963-----	22.33	22.15	22.01	22.23	22.43	22.26	22.03	21.64	21.84	21.78	21.44	21.39
1962-----	23.01	23.03	23.00	22.94	22.89	22.29	22.48	22.72	22.39	22.52	22.42	22.33
1961-----	24.04	24.07	24.03	23.84	23.72	23.60	23.49	23.46	23.27	23.25	23.29	22.99
1960-----	23.96	23.88	23.84	23.77	23.54	23.37	23.96	24.39	24.36	23.70	23.95	24.22
1959-----	24.56	24.53	24.76	24.47	24.22	24.40	24.22	23.95	24.09	23.89	24.02	24.04
1958-----	24.64	24.75	24.49	24.60	24.95	24.46	23.77	23.57	24.54	24.69	24.47	24.46
1957-----	25.17	24.97	25.08	25.50	25.54	25.56	25.38	24.89	24.90	25.31	24.98	24.73
1956-----	25.12	25.18	25.47	24.34	23.90	24.97	25.22	25.55	25.35	25.37	25.19	25.24
1955-----	24.73	24.97	24.99	24.85	25.18	24.68	24.47	24.88	24.92	24.75	25.11	24.99
1954-----	25.38	25.09	24.76	25.05	25.19	25.28	25.31	25.14	25.23	25.10	25.50	25.24
1953-----	25.08	24.97	24.50	24.03	24.91	25.26	25.46	25.11	24.99	24.35	24.90	25.68
1952-----	24.67	24.89	25.07	24.95	24.86	24.98	25.28	25.21	25.24	24.99	25.00	25.02
1951-----	24.25	24.48	24.96	25.68	26.46	24.94	24.46	24.40	24.55	24.88	24.50	24.57
1950-----	24.08	24.04	23.79	22.85	23.69	24.27	23.95	24.14	23.99	23.94	23.94	24.19
1949-----	24.83	24.71	24.89	24.46	24.79	24.18	24.90	24.61	24.37	24.39	24.29	24.07
1948-----	25.04	25.55	25.57	25.66	24.50	23.25	24.76	25.13	24.99	24.69	24.78	24.89
1947-----	29.34	28.46	28.34	27.52	27.74	26.76	26.05	25.48	25.27	25.25	24.96	24.66
1946-----	19.45	19.76	20.19	21.09	21.69	21.92	23.91	25.46	27.03	28.36	29.31	29.23
1945-----	20.97	20.84	20.78	20.82	20.95	20.66	20.54	20.23	20.02	19.74	19.72	19.82
1944-----	21.29	21.30	20.85	20.94	21.34	21.60	22.07	21.44	20.56	20.62	21.27	21.37
1943-----	24.03	23.69	23.59	23.36	23.01	22.86	22.79	22.45	22.10	21.80	21.38	21.29
1942-----	20.94	21.14	21.27	21.03	21.08	21.18	21.41	21.85	23.14	24.38	24.10	23.90
1941-----	19.52	19.72	20.15	20.45	19.86	21.02	21.38	20.52	19.86	19.64	20.11	20.62
1940-----	18.90	19.17	19.10	19.41	19.90	19.67	19.60	19.52	19.43	19.32	19.27	19.45
1939-----	18.90	18.76	18.99	19.05	18.68	18.69	18.85	18.83	18.91	19.07	18.67	18.53
1938-----	19.34	19.32	19.18	19.35	19.36	19.05	19.25	19.21	19.08	19.20	19.22	19.06
1937-----	18.28	18.47	18.75	18.69	18.75	18.62	18.73	19.07	18.85	18.57	18.66	19.08
1936-----	18.49	18.69	18.83	18.33	17.81	18.70	18.56	18.31	18.23	18.29	18.19	18.14
1935-----	19.01	18.85	18.68	18.69	18.32	19.08	18.81	18.68	18.53	18.40	18.44	18.49
1934-----	18.86	18.51	18.21	18.50	18.91	18.83	18.63	19.17	19.39	19.60	19.48	19.29
1933-----	19.18	18.93	19.08	19.11	18.67	18.36	18.14	18.06	17.07	17.55	18.55	18.83

Table 5. Birth rates by month; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1933-63

(Notes to tables given on page V)

Year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Trend-cycle: rates per 1,000 population											
1963-----	22.29	22.21	22.21	22.20	22.17	22.13	22.04	21.94	21.83	---	---	---
1962-----	23.04	23.00	22.93	22.86	22.79	22.69	22.60	22.54	22.49	22.47	22.40	22.33
1961-----	24.05	24.03	23.95	23.82	23.76	23.63	23.49	23.43	23.32	23.24	23.18	23.10
1960-----	23.92	23.87	23.79	23.74	23.71	23.80	23.93	24.03	24.15	24.13	24.12	24.08
1959-----	24.59	24.56	24.54	24.48	24.38	24.29	24.18	24.11	24.06	24.00	24.00	23.96
1958-----	24.71	24.61	24.60	24.59	24.55	24.51	24.57	24.56	24.52	24.58	24.53	24.56
1957-----	25.18	25.21	25.28	25.37	25.43	25.40	25.33	25.19	25.09	24.96	24.90	24.82
1956-----	25.07	25.19	25.13	25.05	25.06	25.15	25.26	25.30	25.30	25.33	25.29	25.21
1955-----	25.08	25.03	24.98	24.91	24.85	24.78	24.73	24.75	24.79	24.89	24.97	25.03
1954-----	25.15	25.11	25.09	25.11	25.12	25.22	25.22	25.22	25.23	25.23	25.20	25.17
1953-----	24.95	24.88	24.84	24.93	25.04	25.11	25.22	25.13	25.11	25.08	25.11	25.15
1952-----	24.74	24.82	24.89	24.95	25.01	25.08	25.13	25.18	25.16	25.10	25.08	24.98
1951-----	24.43	24.54	24.72	24.82	24.78	24.60	24.56	24.61	24.62	24.59	24.64	24.69
1950-----	23.99	23.86	23.80	23.78	23.84	23.93	24.01	23.98	24.05	24.07	24.13	24.27
1949-----	24.77	24.80	24.73	24.69	24.70	24.64	24.58	24.55	24.42	24.32	24.15	24.05
1948-----	25.10	25.19	25.36	25.38	25.25	25.07	24.96	24.90	24.90	24.85	24.80	24.78
1947-----	29.09	28.88	28.46	27.90	27.30	26.69	26.09	25.68	25.28	25.07	24.96	24.98
1946-----	19.62	19.87	20.31	20.92	21.82	23.00	24.33	25.74	27.00	27.87	28.72	29.15
1945-----	20.99	20.95	20.90	20.88	20.84	20.72	20.51	20.23	20.02	19.82	19.63	19.53
1944-----	21.18	21.13	21.16	21.19	21.30	21.42	21.45	21.35	21.22	21.12	21.08	21.02
1943-----	24.02	23.93	23.68	23.45	23.18	22.90	22.65	22.36	22.04	21.72	21.49	21.33
1942-----	20.77	20.86	21.00	21.08	21.12	21.40	21.59	22.12	22.73	23.42	23.88	24.05
1941-----	19.62	19.78	20.02	20.23	20.47	20.54	20.55	20.33	20.31	20.29	20.45	20.62
1940-----	18.87	18.99	19.20	19.37	19.52	19.60	19.62	19.54	19.46	19.41	19.37	19.41
1939-----	19.04	18.94	18.84	18.83	18.81	18.79	18.82	18.85	18.87	18.80	18.80	18.82
1938-----	19.19	19.29	19.27	19.23	19.20	19.18	19.18	19.18	19.21	19.24	19.16	19.07
1937-----	18.33	18.46	18.58	18.65	18.69	18.73	18.75	18.77	18.77	18.89	19.02	19.10
1936-----	18.52	18.56	18.58	18.62	18.63	18.53	18.45	18.39	18.31	18.24	18.21	18.27
1935-----	19.08	18.91	18.77	18.70	18.72	18.73	18.71	18.64	18.57	18.50	18.44	18.49
1934-----	18.52	18.54	18.57	18.61	18.71	18.86	19.06	19.22	19.32	19.40	19.34	19.21
1933-----	---	---	---	18.82	18.59	18.46	18.32	18.19	18.19	18.34	18.56	18.63

Table 6. Birth rates by month and color; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1942-63

(Notes to tables given on page V)

Color and year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<u>White</u>	Observed rates per 1,000 population											
1963-----	20.21	20.54	20.55	20.21	20.20	20.63	21.48	21.80	22.43	21.40	20.26	20.12
1962-----	20.86	21.46	21.53	20.84	20.63	20.79	22.03	22.89	23.02	22.08	21.19	21.08
1961-----	21.72	22.45	22.42	21.69	21.40	21.95	22.90	23.68	23.99	22.80	21.98	21.69
1960-----	21.67	22.26	22.22	21.54	21.25	21.79	23.56	24.61	25.09	23.31	22.70	22.87
1959-----	22.21	22.86	23.10	22.15	21.82	22.65	23.76	24.04	24.81	23.52	22.67	22.70
1958-----	22.33	23.18	22.82	22.23	22.59	22.97	23.54	23.61	25.11	24.20	23.07	23.00
1957-----	22.92	23.33	23.17	22.95	23.07	23.91	25.04	25.07	25.65	24.90	23.73	23.37
1956-----	22.88	23.53	23.43	21.79	21.57	23.38	25.00	25.75	26.05	24.99	23.87	23.81
1955-----	22.68	23.44	23.10	22.25	22.67	23.20	24.35	25.14	25.63	24.37	23.79	23.54
1954-----	23.37	23.70	23.06	22.48	22.63	23.85	25.16	25.42	25.93	24.74	24.22	23.80
1953-----	23.17	23.72	22.87	21.62	22.38	23.92	25.38	25.51	25.75	24.09	23.63	24.19
1952-----	22.90	23.62	23.47	22.49	22.39	23.79	25.38	25.70	26.08	24.72	23.91	23.59
1951-----	22.51	23.26	23.36	23.02	23.56	23.72	24.42	24.91	25.29	24.65	23.46	23.14
1950-----	22.53	22.84	22.33	20.45	21.04	23.10	23.86	24.52	24.59	23.61	22.79	22.60
1949-----	23.39	23.63	23.53	22.05	22.11	23.06	24.71	25.07	25.09	24.26	23.30	22.58
1948-----	23.79	24.56	24.24	23.16	21.95	22.29	24.64	25.68	25.78	24.68	23.98	23.48
1947-----	28.50	27.98	27.26	25.31	25.41	25.99	26.37	26.34	26.35	25.41	24.39	23.50
1946-----	18.53	19.04	19.11	19.25	19.77	21.17	24.29	26.51	28.56	28.82	28.93	28.14
1945-----	20.02	20.10	19.60	18.87	18.91	19.78	20.47	20.64	20.72	19.65	19.04	18.71
1944-----	20.44	20.70	19.77	19.11	19.33	20.66	21.96	21.83	21.28	20.49	20.46	20.07
1943-----	23.31	23.30	22.58	21.60	21.00	21.97	22.82	22.96	22.88	21.56	20.51	20.07
1942-----	20.04	20.59	20.37	19.39	19.26	20.29	21.53	22.43	24.01	24.15	23.18	22.66
<u>White</u>	Seasonally adjusted rates per 1,000 population											
1963-----	21.21	20.96	20.91	21.10	21.22	21.16	20.89	20.49	20.71	20.72	20.36	20.24
1962-----	21.89	21.88	21.86	21.75	21.72	21.30	21.39	21.57	21.24	21.37	21.30	21.21
1961-----	22.79	22.86	22.78	22.69	22.53	22.42	22.25	22.34	22.13	22.03	22.11	21.82
1960-----	22.74	22.67	22.60	22.55	22.34	22.21	22.85	23.26	23.17	22.48	22.81	23.03
1959-----	23.28	23.26	23.50	23.19	22.99	23.11	23.02	22.68	22.93	22.68	22.78	22.86
1958-----	23.43	23.60	23.33	23.40	23.78	23.37	22.77	22.25	23.16	23.34	23.19	23.19
1957-----	23.97	23.73	23.76	24.23	24.28	24.27	24.15	23.65	23.68	24.06	23.80	23.56
1956-----	23.88	23.89	24.13	23.06	22.73	23.71	24.04	24.27	24.10	24.17	23.94	24.03
1955-----	23.63	23.77	23.81	23.62	23.96	23.51	23.35	23.65	23.73	23.61	23.86	23.78
1954-----	24.27	23.99	23.72	23.91	23.97	24.09	24.10	23.94	24.03	23.97	24.29	24.09
1953-----	23.96	23.94	23.46	23.07	23.83	24.11	24.31	23.98	23.89	23.39	23.75	24.53
1952-----	23.63	23.81	24.02	24.03	23.90	23.98	24.29	24.18	24.22	23.98	24.01	23.97
1951-----	23.13	23.40	23.84	24.59	25.31	23.86	23.39	23.41	23.53	23.89	23.53	23.54
1950-----	23.08	22.98	22.76	21.94	22.62	23.24	22.90	23.05	22.90	22.83	22.86	23.06
1949-----	23.92	23.80	23.99	23.61	23.80	23.22	23.83	23.63	23.38	23.39	23.28	23.06
1948-----	24.25	24.73	24.76	24.82	23.60	22.47	23.83	24.23	24.03	23.78	23.88	23.96
1947-----	28.93	28.15	27.96	27.16	27.29	26.25	25.53	24.90	24.56	24.50	24.24	23.93
1946-----	18.77	19.17	19.66	20.63	21.24	21.43	23.51	25.08	26.59	27.74	28.73	28.63
1945-----	20.24	20.22	20.23	20.18	20.27	20.02	19.87	19.58	19.22	18.91	18.91	19.05
1944-----	20.63	20.85	20.44	20.44	20.70	20.91	21.30	20.73	19.72	19.70	20.32	20.44
1943-----	23.52	23.39	23.37	23.05	22.51	22.28	22.13	21.80	21.15	20.73	20.39	20.42
1942-----	20.22	20.67	21.09	20.72	20.62	20.60	20.82	21.28	22.13	23.29	23.09	23.05
<u>White</u>	Trend-cycle: rates per 1,000 population											
1963-----	21.13	21.07	21.07	21.08	21.05	21.01	20.91	20.82	20.70	---	---	---
1962-----	21.88	21.85	21.78	21.71	21.62	21.54	21.47	21.41	21.35	21.32	21.26	21.19
1961-----	22.86	22.83	22.77	22.61	22.57	22.44	22.33	22.26	22.16	22.09	22.02	21.94
1960-----	22.72	22.65	22.58	22.56	22.50	22.62	22.75	22.87	23.03	22.99	22.96	22.91
1959-----	23.30	23.27	23.27	23.23	23.14	23.06	22.95	22.88	22.84	22.81	22.78	22.79
1958-----	23.57	23.46	23.46	23.43	23.38	23.30	23.30	23.23	23.21	23.26	23.26	23.27
1957-----	23.95	23.95	24.02	24.11	24.20	24.17	24.08	23.98	23.87	23.76	23.72	23.65
1956-----	23.82	23.92	23.88	23.82	23.85	23.93	24.03	24.06	24.05	24.09	24.05	23.98
1955-----	23.90	23.85	23.78	23.70	23.65	23.60	23.55	23.58	23.61	23.70	23.77	23.79
1954-----	24.01	24.00	23.98	23.96	23.96	24.01	24.00	24.02	24.06	24.04	24.00	24.01
1953-----	23.91	23.85	23.80	23.85	23.92	24.00	24.05	23.94	23.91	23.88	23.95	23.99
1952-----	23.75	23.82	23.90	23.99	24.02	24.08	24.11	24.15	24.13	24.08	24.02	23.95
1951-----	23.30	23.41	23.59	23.68	23.68	23.54	23.54	23.59	23.59	23.57	23.63	23.65
1950-----	22.94	22.81	22.75	22.72	22.76	22.88	22.93	22.92	22.96	22.98	23.04	23.16
1949-----	23.86	23.92	23.81	23.77	23.74	23.68	23.60	23.53	23.40	23.32	23.15	23.01
1948-----	24.32	24.42	24.59	24.55	24.41	24.20	24.03	23.95	23.96	23.92	23.89	23.86
1947-----	28.69	28.52	28.09	27.50	26.76	26.10	25.48	25.04	24.64	24.39	24.25	24.25
1946-----	18.95	19.25	19.73	20.38	21.35	22.56	23.96	25.36	26.62	27.45	28.28	28.71
1945-----	20.26	20.25	20.22	20.20	20.16	20.03	19.81	19.52	19.28	19.06	18.90	18.81
1944-----	20.42	20.47	20.58	20.65	20.71	20.78	20.90	20.84	20.64	20.47	20.38	20.31
1943-----	23.49	23.48	23.34	23.09	22.76	22.38	22.00	21.57	21.15	20.77	20.54	20.45
1942-----	---	---	---	20.29	20.42	20.72	20.97	21.41	21.92	22.55	23.06	23.36

Table 6. Birth rates by month and color; observed rates, seasonally adjusted rates, and trend-cycle: United States, 1942-63—Con.

(Notes to tables given on page V)

Color and year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<u>Nonwhite</u>	Observed rates per 1,000 population											
1963-----	31.85	31.72	29.44	27.73	27.95	29.41	32.25	33.54	33.83	30.30	29.49	30.44
1962-----	32.55	32.29	30.74	28.99	28.51	29.24	32.67	34.67	34.54	31.77	30.91	31.42
1961-----	34.20	33.58	32.24	29.52	29.35	31.09	34.92	35.38	35.26	32.76	32.08	31.97
1960-----	34.05	33.31	31.85	29.98	29.09	30.85	34.57	36.56	37.03	33.28	32.53	33.29
1959-----	35.46	34.75	33.10	30.61	30.26	33.44	36.10	37.28	36.57	33.51	33.26	33.23
1958-----	35.19	34.25	32.61	30.60	30.74	31.77	33.98	37.46	39.11	35.52	34.66	34.70
1957-----	35.80	35.34	34.39	31.88	32.17	34.55	38.09	38.30	38.30	35.57	34.29	34.34
1956-----	36.27	36.01	34.95	30.83	29.97	34.31	37.47	39.22	38.97	35.79	35.07	35.32
1955-----	34.95	35.31	33.19	31.08	31.56	33.46	36.15	37.93	37.88	34.66	34.78	34.94
1954-----	35.76	34.85	32.14	30.73	31.34	34.39	37.68	38.07	38.25	34.81	34.99	34.86
1953-----	35.24	34.32	31.96	28.85	29.93	34.18	37.56	37.57	37.13	32.82	33.87	35.22
1952-----	34.33	34.79	32.98	29.66	29.20	32.64	36.22	36.79	36.52	33.84	32.78	33.50
1951-----	34.99	34.90	34.12	31.50	31.92	33.35	35.41	35.34	35.77	33.10	32.09	32.74
1950-----	34.06	34.54	32.61	28.16	29.16	32.47	34.67	35.97	35.71	33.16	32.67	33.38
1949-----	33.96	34.10	32.81	29.25	29.80	31.81	35.42	35.51	35.09	32.85	32.30	32.38
1948-----	33.07	34.07	32.48	30.53	28.97	29.28	33.85	34.84	35.11	32.04	31.81	32.49
1947-----	34.26	33.11	31.78	28.68	28.44	29.91	31.49	32.49	32.67	30.66	30.59	30.71
1946-----	26.33	26.57	25.54	23.79	23.61	25.40	27.92	30.21	31.62	31.54	33.22	33.52
1945-----	28.48	28.54	26.89	25.57	24.79	25.59	27.06	27.22	27.40	25.14	25.50	25.55
1944-----	28.21	28.14	26.87	25.48	25.00	27.16	29.62	29.47	27.50	26.21	26.89	27.73
1943-----	29.87	30.15	29.69	27.60	26.37	27.66	29.67	30.26	29.40	26.73	26.03	26.04
1942-----	28.96	29.60	28.03	26.78	25.13	26.07	27.93	29.16	29.81	27.65	26.55	26.58
<u>Nonwhite</u>	Seasonally adjusted rates per 1,000 population											
1963-----	31.10	31.31	30.54	30.74	31.19	31.09	30.74	30.52	30.67	29.97	29.73	30.38
1962-----	31.79	31.91	31.89	32.18	31.89	30.88	31.03	31.52	31.37	31.42	31.16	31.36
1961-----	33.40	33.25	33.44	32.76	32.79	32.86	33.16	32.19	32.03	32.37	32.31	31.94
1960-----	33.28	33.05	33.04	33.31	32.50	32.47	32.71	33.33	33.69	32.85	32.79	33.29
1959-----	34.63	34.51	34.30	34.05	33.85	35.05	34.09	33.92	33.31	33.11	33.53	33.23
1958-----	34.40	34.01	33.83	34.23	34.35	33.06	32.00	34.12	35.75	35.20	34.94	34.77
1957-----	35.00	35.09	35.75	35.74	35.86	35.77	35.83	34.91	35.01	35.32	34.57	34.41
1956-----	35.39	35.65	36.37	34.68	33.41	35.30	35.15	35.85	35.75	35.58	35.35	35.36
1955-----	34.03	34.79	34.39	35.04	35.18	34.39	33.88	34.77	34.82	34.49	35.17	35.01
1954-----	34.79	34.23	33.03	34.64	35.02	35.20	35.31	34.99	35.22	34.74	35.52	34.96
1953-----	34.15	33.45	32.68	32.56	33.59	34.91	35.30	34.59	34.28	32.89	34.49	35.36
1952-----	33.20	33.78	33.55	33.36	32.74	33.37	34.04	34.03	33.88	33.94	33.45	33.70
1951-----	33.74	33.72	34.43	35.23	35.91	34.07	33.41	32.84	33.34	33.27	32.81	32.94
1950-----	32.72	33.18	32.84	31.29	32.73	33.23	32.92	33.52	33.34	33.36	33.47	33.65
1949-----	32.65	32.69	32.91	32.21	33.33	32.79	33.83	33.28	32.83	33.02	33.09	32.71
1948-----	31.74	32.63	32.58	33.22	32.19	30.31	32.58	32.81	32.94	32.30	32.49	32.75
1947-----	32.82	31.62	31.91	31.07	31.56	31.06	30.43	30.65	30.68	31.03	31.21	30.86
1946-----	25.22	25.45	25.54	25.64	26.06	26.43	27.00	28.55	29.75	31.96	33.90	33.65
1945-----	27.31	27.34	26.92	27.41	27.27	26.63	26.30	25.75	25.75	25.55	26.05	25.58
1944-----	27.02	27.01	26.90	27.28	27.38	28.26	28.79	27.88	25.85	26.66	27.49	27.76
1943-----	28.72	28.93	29.69	29.42	28.88	28.78	28.83	28.63	27.66	27.28	26.70	25.99
1942-----	27.85	28.41	28.03	28.46	27.49	27.13	27.12	27.56	28.04	28.36	27.26	26.93
<u>Nonwhite</u>	Trend-cycle: rates per 1,000 population											
1963-----	31.17	31.05	31.03	30.97	30.91	30.84	30.81	30.74	30.60	---	---	---
1962-----	31.92	31.87	31.87	31.80	31.68	31.52	31.44	31.34	31.34	31.34	31.32	31.26
1961-----	33.22	33.27	33.16	33.07	32.96	32.80	32.57	32.48	32.30	32.15	32.09	32.02
1960-----	33.23	33.14	33.02	32.89	32.79	32.82	32.90	32.92	33.04	33.10	33.09	33.18
1959-----	34.68	34.50	34.33	34.15	34.08	34.03	33.87	33.72	33.58	33.46	33.35	33.24
1958-----	34.22	34.09	34.04	34.03	34.01	33.97	34.17	34.40	34.69	34.84	34.80	34.77
1957-----	35.35	35.45	35.53	35.70	35.80	35.69	35.56	35.41	35.15	34.91	34.70	34.50
1956-----	35.29	35.49	35.49	35.37	35.25	35.31	35.46	35.51	35.49	35.50	35.42	35.31
1955-----	34.79	34.83	34.81	34.75	34.70	34.63	34.54	34.51	34.58	34.76	34.96	35.18
1954-----	34.64	34.64	34.68	34.77	34.96	35.15	35.05	35.12	35.13	35.06	35.04	34.94
1953-----	33.56	33.39	33.39	33.47	33.75	34.19	34.52	34.54	34.62	34.63	34.61	34.62
1952-----	33.26	33.39	33.41	33.44	33.46	33.52	33.76	33.87	33.85	33.80	33.74	33.65
1951-----	33.91	34.02	34.20	34.27	34.04	33.68	33.39	33.26	33.17	33.03	33.10	33.20
1950-----	32.87	32.78	32.85	32.92	32.98	33.04	33.19	33.28	33.40	33.49	33.58	33.70
1949-----	32.56	32.70	32.73	32.86	33.08	33.16	33.16	33.21	33.09	32.98	32.86	32.83
1948-----	31.70	32.06	32.39	32.62	32.65	32.68	32.69	32.64	32.70	32.64	32.58	32.55
1947-----	32.27	32.03	31.95	31.62	31.62	31.01	30.72	30.72	30.72	30.84	31.07	31.32
1946-----	25.37	25.38	25.43	25.69	26.09	26.71	27.71	28.65	29.63	30.88	31.61	32.35
1945-----	27.36	27.29	27.17	27.07	26.95	26.69	26.35	26.03	25.86	25.73	25.59	25.48
1944-----	26.80	26.85	27.06	27.28	27.55	27.85	28.02	27.94	27.85	27.55	27.55	27.42
1943-----	29.01	29.19	29.25	29.18	29.15	28.92	28.59	28.21	27.82	27.34	27.00	26.78
1942-----	---	---	---	27.09	27.06	27.17	27.40	27.57	27.77	28.17	28.44	28.72

## APPENDIX

### TECHNICAL NOTES ON METHODS

#### Seasonally Adjusted Birth Statistics

Seasonal adjustment of birth statistics can be accomplished in several ways.<sup>19</sup> Among the early methods used were monthly means and link relatives. The seasonal adjustment method most widely used today is the ratio-to-moving-average method developed during the 1920's by Frederick Macaulay at the National Bureau of Economic Research. The advantages of this method are its relative precision in measuring time series components and its flexibility; it is, however, the most laborious method of seasonal adjustment. The advent of the electronic computer with its capacities for making rapid statistical computations has made practicable the application of this method to time series of birth statistics.

Adaptations of the ratio-to-moving-average method, programmed for the electronic computer, were developed by the U.S. Bureau of the Census in 1954 (Census Method II)<sup>20</sup> and more recently by the U.S. Bureau of Labor Statistics (BLS Seasonal Factor Method).<sup>21</sup> Fundamental to both methods are the concepts that the 12-month moving average is a first approximation of the trend-cycle and that the original time series ( $O$ ) can be represented by a multiplicative relationship among the components ( $O = T \times C \times S \times I$ ). However, the programs differ technically in certain respects—mainly in their treatment of extreme monthly values, which are eliminated by a control chart procedure, and in their final estimate of the trend-cycle.

The BLS Method and Census Method II (version X-9) give similar results for 1948-54 (table I). There are no differences larger than 0.7 percent in the average seasonal pattern based on these two methods. However, results differ for the pattern of change in the seasonal component over time; in general, the BLS Method shows less variation in the seasonal factors because "credence factors," discussed later, reduce the impact of large irregular values associated with certain observations.

In this report time series components were estimated using the BLS program, and measures of relationships among components were based on concepts developed at the Bureau of the Census. The BLS Seasonal Factor Method and Census Method II are undergoing periodic revision and refinement. The BLS Method was introduced about 5 years ago, but

the version used in this report was developed in 1964. In 1965 the X-11 version of Method II replaced X-9 and X-10 versions as the standard program at the Bureau of the Census.<sup>22</sup>

#### Description of the BLS Seasonal Factor Method

The BLS Seasonal Factor Method assumes a multiplicative relationship among the constituent parts of a time series, that is, among the trend-cycle ( $T$ ), the seasonal component ( $S$ ), and the irregular movements ( $I$ ). When multiplied together, these components exhaust the original observations. The following description of the BLS Method is based on the document cited in reference 21, pages 2-12.

The method by which the components of the time series are developed is an iterative one in which each of the three iterations results in an improved estimate of the components. Each iteration is composed of two phases. The first phase starts with a centered 12-month moving average as the estimate of trend-cycle; the second phase starts with an improved 12-month moving average that is based on information from the first phase.

A feature of the BLS Method is the use of "credence factors" which are used as supplementary weights to reduce the impact of large irregular values associated with certain observations. Observations with a small irregular component are given full weight in developing the trend-cycle and seasonal factors (credence factor of 1.0); observations with large irregulars are given no weight (credence factor of 0.0). Observations in between are given weights commensurate with the size of their irregular values, weights between the value of one and zero.

The first phase of the first iteration starts with a centered 12-month moving average of the original observations as an estimate of the trend-cycle. Ratios of the original observations to the centered 21-month moving average produce a series of seasonal-irregular ratios ( $O/T = S \times I$ ), which are arrayed by month. A smooth curve fitted to these ratios yields an estimate of unforced seasonal factors. These ratios are then adjusted to yield a monthly average of 100.0 for the calendar year. The forced seasonal factors ( $S$ ) are divided into each seasonal-irregular ratio ( $S \times I$ ) to yield the random or irregular ratio  $\frac{(S \times I)}{S} = I$ .

The second phase of the first iteration starts with an improved estimate of the trend-cycle, secured by multiplying the 12-month moving average of the original observations with the residual trend-cycle that can be extracted from the irregular developed above. The residual trend-cycle in the irregular is represented by a weighted moving average of the irregulars. The improved trend-cycle is used to develop new  $S \times I$  ratios, new unforced seasonals, new forced seasonals, and new irregulars, as in the first phase of the first iteration.

The trend-cycle and the seasonal components developed at this point represent the components of the original series fairly well, except that they have been influenced too much by original values associated with large irregulars. Such original values are identified by calculating a moving standard deviation of the irregulars and using this to calibrate the relative size of each irregular.

Having identified the values associated with large irregulars, preliminary "credence factors" are assigned to each value based on its standardized irregular. By combining these credence factors with the  $S \times I$  ratios in phase two, new unforced seasonals, seasonals, and irregulars can be computed in which the impact of extreme irregulars in the original observations is reduced.

The second and third iterations, with two phases in each, are designed to further reduce the impact of large irregular values. These iterations are similar, step by step, to the first iteration, except that they start with an improved 12-month moving average of the original data in which the original values with large irregular components are scaled down by using credence factors developed in earlier iterations.

The final iteration yields the seasonal component, irregular component, and trend-cycle component of the original series. Division of the seasonal factors into the corresponding figures of the original observations produces the standard seasonally adjusted series, containing only the trend-cycle and irregular components of the series.

## Births

Numbers of births for the period 1933-63 are published in the annual volumes *Vital Statistics of the United States*. They are based on information obtained from copies of the original birth certificates received by the National Center for Health Statistics from the registration offices of all States, certain cities, and the District of Columbia. The data are confined to events registered within the United States and include events occurring to nonresident aliens; the data do not include any births occurring outside

the United States. Figures for the United States include Alaska beginning in 1959 and Hawaii in 1960.

Registered live births by color for the United States and each geographic region, upon which the observed rates and seasonally adjusted series in this report are based, are shown in tables II and III. Prior to seasonal adjustment, births were adjusted for varying number of days in each month and for under-registration.

Births by color were not available for New Jersey in 1962 and 1963; therefore, tables that show color for these years exclude data for the residents of New Jersey.

## Birth-Registration Completeness

Births in this report have been adjusted for incompleteness of registration, except where indicated. The adjustments are based on the results of nationwide tests of completeness of birth registration made in both 1940 and 1950. Registration completeness for the Nation as a whole in 1933 is estimated as 90.2 percent; in 1963, about 98.9 percent.

## Sampling

Final birth data for 1951-54 and 1956-63 have been derived from 50-percent samples of birth records. Statistics for these years were obtained by multiplying the sample figures by 2.

## Population Bases for Rates

Except for 1941-46 when the populations include Armed Forces overseas, rates shown in this report are based on populations residing in the United States. The population excludes the Armed Forces overseas and persons living abroad but include the Armed Forces stationed in the United States. Rates are estimated for the population residing in the United States in a specified month. The monthly populations were derived by linear interpolation between annual estimates provided by the U.S. Bureau of the Census.

## Computer Processing Time Series

Because the BLS Seasonal Factor Method, programmed for the IBM 1401, can process time series whose maximum length is 20 years, it was necessary when seasonally adjusting births and birth rates for 31 years (1933-63) and for 22 years (1942-63) to make more than one computer pass for each series and to splice the seasonally adjusted data at points that minimized discontinuities in the time series.



Table I. Seasonal indexes of birth rates by month, estimated by BLS Seasonal Factor Method (1964) and by Census Method II, X-9: United States, 1948-54

(Notes to tables given on page V)

Year	Month											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	BLS Seasonal Factor Method											
1948-54---	98.1	99.8	97.9	93.2	92.8	99.0	104.3	106.4	107.5	102.9	99.6	98.4
1954-----	97.3	99.2	97.1	93.3	93.6	98.8	104.7	106.5	108.0	102.9	99.5	99.0
1953-----	97.5	99.5	97.3	93.2	93.1	99.0	104.8	106.7	107.9	102.8	99.3	98.8
1952-----	97.7	99.6	97.6	93.2	93.0	99.0	104.9	106.6	107.7	102.8	99.4	98.5
1951-----	98.2	100.0	98.1	93.1	92.4	99.2	104.6	106.6	107.5	102.7	99.5	98.3
1950-----	98.5	100.0	98.3	93.0	92.4	99.2	104.3	106.5	107.3	102.8	99.5	98.0
1949-----	98.6	100.0	98.4	93.2	92.4	99.1	103.7	106.2	107.2	103.1	99.8	98.0
1948-----	98.9	100.0	98.2	93.3	92.6	99.0	103.4	106.0	107.1	103.1	100.1	98.1
	Census Method II, X-9											
1948-54---	98.2	100.0	98.0	92.8	93.0	98.6	105.0	106.9	107.6	102.3	99.3	98.3
1954-----	98.2	99.6	96.2	92.1	93.6	99.9	106.1	106.8	107.9	101.3	99.5	99.0
1953-----	98.0	99.7	96.7	92.3	93.5	99.7	105.8	106.7	107.9	101.5	99.2	98.9
1952-----	97.9	99.8	97.5	92.6	93.2	99.5	105.2	106.7	107.8	102.1	99.0	98.5
1951-----	98.1	99.9	98.1	92.6	93.2	99.3	104.6	106.6	107.5	102.7	99.0	98.1
1950-----	98.3	100.1	98.7	92.5	92.8	98.7	104.4	106.8	107.4	102.9	99.1	97.8
1949-----	98.3	100.2	99.0	93.0	92.6	97.4	104.5	107.2	107.4	102.9	99.4	97.7
1948-----	98.1	100.4	99.3	93.8	92.2	96.0	104.7	107.6	107.7	102.8	99.6	97.8



Table II. Registered live births, by month: United States and each geographic region, 1933-63

(Notes to tables given on page V)

Area and year	Total	Jan.	Feb.	Mar.	Apr.	May
<u>United States</u>						
1963-----	4,098,020	339,188	310,846	340,494	322,936	334,238
1962-----	4,167,362	344,014	318,090	350,762	327,926	335,230
1961-----	4,268,326	353,286	327,502	360,322	335,120	342,404
1960-----	4,257,850	345,376	329,642	349,918	327,202	333,120
1959-----	4,244,796	349,334	322,706	358,192	331,144	337,614
1958-----	4,203,812	344,236	319,968	347,378	326,178	342,518
1957-----	4,254,784	346,462	317,380	348,378	331,212	344,740
1956-----	4,163,090	339,074	324,828	344,912	308,530	315,230
1955-----	4,047,295	328,872	306,418	332,407	309,198	325,859
1954-----	4,017,362	331,570	302,318	323,668	305,006	318,444
1953-----	3,902,120	322,488	296,312	315,132	286,962	307,382
1952-----	3,846,986	311,626	300,218	317,178	292,028	300,366
1951-----	3,750,850	303,538	282,118	312,820	295,924	312,970
1950-----	3,554,149	297,276	272,604	294,038	258,868	275,786
1949-----	3,559,529	299,255	273,195	300,117	270,770	281,595
1948-----	3,535,068	295,494	285,694	300,463	277,636	272,277
1947-----	3,699,940	340,460	301,932	325,740	292,375	303,461
1946-----	3,288,672	222,721	206,387	228,321	220,646	233,452
1945-----	2,735,456	236,566	214,692	230,989	215,029	221,984
1944-----	2,794,800	235,595	223,073	227,932	212,915	221,950
1943-----	2,934,860	261,958	237,078	255,166	235,675	236,609
1942-----	2,808,996	224,251	208,149	227,012	209,363	213,594
1941-----	2,513,427	205,011	190,876	211,875	200,781	198,270
1940-----	2,360,399	194,247	188,279	198,090	186,743	194,123
1939-----	2,265,588	192,416	176,904	196,123	182,990	182,774
1938-----	2,286,962	194,557	180,052	196,177	184,263	188,010
1937-----	2,203,337	182,232	170,698	189,650	175,708	181,023
1936-----	2,144,790	182,221	176,711	188,522	170,489	170,479
1935-----	2,155,105	186,051	171,058	185,375	172,177	174,705
1934-----	2,167,636	182,698	166,452	179,065	168,671	179,021
1933-----	2,081,232	180,545	165,986	183,762	171,354	174,811

Table II. Registered live births, by month: United States and each geographic region, 1933-63—Con.

(Notes to tables given on page V)

June	July	Aug.	Sept.	Oct.	Nov.	Dec.
331,982	360,454	367,290	365,002	356,866	328,732	339,992
328,098	363,018	379,122	369,002	363,524	338,796	349,780
341,990	373,522	385,484	377,628	370,114	346,556	354,398
332,728	374,214	392,230	387,350	370,552	349,854	365,664
342,814	373,766	380,078	377,220	368,198	345,688	358,042
338,316	360,960	367,878	378,118	373,820	346,600	357,842
348,054	380,020	381,448	377,002	376,254	348,158	355,676
333,672	370,390	383,084	374,728	369,734	343,658	355,250
324,847	354,267	367,221	361,973	354,304	336,565	345,364
321,008	358,920	363,278	358,568	351,858	335,140	341,584
321,246	354,464	356,450	347,740	334,202	319,966	339,776
311,340	345,452	350,476	343,682	336,136	315,148	323,336
306,788	328,208	334,264	328,708	329,166	304,302	312,044
293,879	315,538	325,094	315,375	311,905	292,497	301,289
285,442	318,218	322,774	312,623	311,480	290,956	293,104
267,712	308,010	320,968	312,511	307,720	290,552	296,031
301,913	318,340	319,681	310,145	308,540	288,366	288,987
242,302	286,336	312,678	325,485	339,499	332,115	338,730
224,512	240,951	243,155	236,448	230,965	218,052	222,113
230,306	253,921	252,673	237,395	236,068	229,117	233,855
239,850	258,656	260,985	251,169	243,810	225,284	228,620
217,609	239,127	249,525	257,448	265,589	246,991	250,338
211,120	234,239	229,428	215,232	207,462	199,889	209,244
192,404	210,125	213,669	206,103	198,763	185,710	192,143
181,809	200,553	203,754	197,814	193,120	177,396	179,935
183,822	203,183	205,742	196,692	192,035	179,917	182,512
177,588	195,407	201,292	192,513	183,842	172,924	180,460
176,341	190,986	190,494	183,819	178,672	166,482	169,574
178,786	191,888	192,449	185,218	177,945	167,643	171,810
175,044	187,768	195,393	192,412	187,766	175,481	177,865
169,255	180,880	181,856	167,637	167,055	165,939	172,152

Table II. Registered live births, by month: United States and each geographic region, 1933-63—Con.

(Notes to tables given on page V)

Area and year	Total	Jan.	Feb.	Mar.	Apr.	May
<u>Northeast</u>						
1963-----	941,552	76,858	70,912	78,368	78,502	80,634
1962-----	944,510	76,608	72,010	80,612	75,984	77,462
1961-----	976,996	79,204	75,068	83,940	80,248	82,128
1960-----	970,052	77,396	75,500	80,522	76,430	77,088
1959-----	974,278	79,894	75,052	84,752	78,586	81,250
1958-----	976,558	78,754	75,030	81,522	79,562	84,782
1957-----	981,900	78,790	73,636	82,320	79,994	83,436
1956-----	949,254	76,310	74,018	79,264	71,512	74,010
1955-----	931,627	74,611	70,154	79,586	76,663	80,350
1954-----	918,966	74,514	69,816	77,182	73,102	76,738
1953-----	890,430	72,412	67,892	74,682	68,478	72,466
1952-----	887,910	71,110	69,476	74,852	71,678	73,504
1951-----	859,826	68,134	64,494	73,648	71,108	74,932
1950-----	815,105	66,907	62,397	68,530	62,707	65,605
1949-----	819,644	68,013	62,953	71,036	65,583	67,304
1948-----	827,115	67,064	66,277	72,693	67,011	67,130
1947-----	896,761	81,398	73,230	81,537	75,344	78,419
1946-----	792,426	51,901	48,419	54,111	53,946	59,612
1945-----	642,253	53,693	49,870	55,684	51,951	53,085
1944-----	643,544	53,314	50,485	52,594	50,528	54,712
1943-----	706,228	64,440	58,501	62,941	59,129	59,649
1942-----	691,974	51,167	49,057	54,900	51,311	55,434
1941-----	593,356	46,059	43,707	49,063	47,877	47,902
1940-----	553,615	44,235	42,625	45,925	44,964	45,709
1939-----	531,863	44,187	41,487	46,543	43,665	43,697
1938-----	536,516	45,163	41,704	46,284	44,158	44,358
1937-----	525,352	42,652	39,875	45,566	43,716	45,449
1936-----	519,243	43,482	41,801	45,279	41,341	43,405
1935-----	525,580	44,533	41,327	45,874	43,338	45,382
1934-----	527,008	43,908	40,368	44,063	41,911	44,304
1933-----	525,138	45,996	41,672	46,560	44,360	46,060
<u>North Central</u>						
1963-----	1,154,562	95,132	87,126	96,964	92,204	96,684
1962-----	1,189,992	97,780	91,422	101,592	94,654	96,538
1961-----	1,236,580	101,446	95,600	106,510	99,132	100,022
1960-----	1,246,188	100,232	95,858	103,336	97,180	97,840
1959-----	1,256,304	101,946	96,370	108,282	100,386	101,372
1958-----	1,243,696	101,446	95,292	104,970	96,960	100,760
1957-----	1,270,956	102,720	95,034	103,250	99,546	103,826
1956-----	1,243,122	100,550	97,262	102,938	90,002	91,440
1955-----	1,204,249	97,325	91,520	97,484	91,326	97,861
1954-----	1,193,970	96,928	89,506	96,040	90,856	94,334
1953-----	1,149,672	93,378	86,420	91,388	83,984	92,630
1952-----	1,139,536	90,236	87,992	95,014	88,736	91,688
1951-----	1,117,102	87,398	83,144	93,086	89,786	95,074
1950-----	1,047,335	85,748	79,715	85,605	74,688	81,462
1949-----	1,043,569	86,883	79,607	88,631	80,124	83,510
1948-----	1,025,605	84,602	83,335	87,899	81,102	75,550
1947-----	1,074,586	97,507	87,234	94,620	84,619	89,390
1946-----	945,755	61,427	57,924	65,541	64,330	67,170
1945-----	762,345	64,748	58,925	63,426	59,806	63,372
1944-----	779,721	65,429	62,598	64,022	59,314	62,390
1943-----	830,612	74,569	67,133	71,975	66,546	67,668
1942-----	823,445	65,661	60,728	66,300	60,673	61,049
1941-----	736,062	58,987	55,113	60,824	57,255	56,281
1940-----	690,568	56,247	55,017	57,590	53,683	57,406
1939-----	663,153	56,741	52,623	57,814	53,120	54,622
1938-----	676,080	57,231	52,793	57,738	53,579	55,762
1937-----	647,259	53,303	49,733	55,471	49,523	51,324
1936-----	637,397	53,285	52,280	56,224	49,715	49,406
1935-----	630,723	54,027	49,642	53,361	48,959	49,990
1934-----	630,858	52,437	48,068	51,464	48,096	53,574
1933-----	607,859	53,331	49,099	54,014	49,903	51,096

Table II. Registered live births, by month: United States and each geographic region, 1933-63—Con.

(Notes to tables given on page V)

June	July	Aug.	Sept.	Oct.	Nov.	Dec.
78,872	83,594	81,524	81,524	80,138	73,952	76,674
73,670	81,880	85,482	83,672	82,372	76,094	78,664
81,226	85,398	86,418	84,418	82,756	77,560	78,632
76,354	84,342	88,312	87,046	85,214	79,724	82,124
81,044	85,720	84,512	84,314	82,084	77,036	80,034
80,640	82,592	83,526	85,582	84,530	78,604	81,434
81,360	85,766	85,034	84,992	86,300	79,246	81,026
78,918	84,672	85,408	83,938	83,722	77,306	80,176
77,551	79,876	80,386	79,848	79,756	75,530	77,316
74,638	80,996	80,050	80,150	79,130	75,828	76,822
74,838	79,582	78,686	77,550	76,278	71,682	75,884
73,750	79,326	77,852	76,740	76,314	70,996	72,312
71,142	74,364	74,854	74,184	74,364	68,260	70,342
69,050	72,407	72,439	70,980	70,432	65,915	67,736
67,070	73,260	71,825	69,815	71,126	65,486	66,173
64,775	71,862	72,857	71,331	71,047	67,211	67,857
75,358	76,194	74,718	72,628	72,300	67,858	67,777
60,259	69,531	75,136	77,913	81,193	79,364	81,041
54,585	56,133	55,767	54,645	54,309	50,876	51,655
55,255	57,993	56,156	53,705	53,892	52,292	52,618
59,412	61,332	60,337	58,393	57,090	52,414	52,590
55,267	59,067	59,190	62,921	67,179	62,846	63,642
51,941	55,736	53,969	50,667	49,227	47,081	50,127
46,274	50,832	49,348	47,739	46,709	44,297	44,958
44,395	48,727	46,674	44,875	44,257	40,948	42,408
44,224	49,136	48,051	44,881	44,484	41,745	42,328
44,208	47,164	46,887	44,136	42,445	40,649	42,605
44,448	47,144	45,114	43,057	42,682	40,618	40,872
44,885	46,565	46,007	43,102	42,140	40,765	41,662
44,444	47,486	46,740	44,678	44,004	41,703	43,399
44,095	46,100	45,568	41,969	40,431	40,398	41,929
95,528	102,006	101,800	101,502	99,726	92,082	93,808
94,380	103,882	108,410	104,394	102,614	95,848	98,478
97,878	108,404	111,170	108,212	106,272	99,918	102,016
96,774	111,020	115,980	112,430	107,380	101,824	106,364
101,748	110,570	111,414	110,290	107,930	101,580	104,416
101,646	107,500	107,710	110,460	109,970	101,778	105,204
105,626	115,038	113,714	111,654	111,778	103,330	105,440
100,642	112,816	115,644	112,130	111,154	102,266	106,278
97,458	106,687	109,242	107,078	105,596	100,342	102,330
98,358	107,240	108,182	107,034	105,092	99,668	100,732
95,714	105,066	105,184	102,242	98,932	94,588	100,146
94,482	101,882	103,020	100,994	98,598	92,368	94,526
93,508	98,602	98,826	97,314	98,088	90,252	92,024
89,416	94,795	96,256	92,781	92,347	86,348	88,174
83,177	92,843	94,746	91,564	91,367	85,395	85,722
76,122	90,253	94,321	91,097	90,386	85,135	85,803
89,440	93,639	92,891	89,089	89,882	83,104	83,171
69,969	83,226	89,463	94,389	99,038	95,522	97,756
64,047	68,396	68,144	64,845	64,332	60,503	61,801
65,020	71,380	70,115	65,872	65,476	63,718	64,387
67,993	73,781	73,995	70,648	68,808	63,453	64,043
64,886	71,511	74,241	75,553	78,109	72,392	72,342
62,284	69,510	67,827	64,766	62,611	58,989	61,615
57,092	62,503	63,042	59,585	58,877	54,401	55,125
54,166	59,034	59,255	57,216	56,029	50,976	51,557
54,889	61,066	61,650	58,023	56,706	52,817	53,826
51,930	58,735	60,605	56,660	54,113	52,023	53,839
53,017	57,563	57,260	54,815	53,200	50,188	50,444
53,710	58,256	56,741	53,761	52,218	49,444	50,614
52,538	56,086	56,389	54,972	54,489	51,210	51,535
50,405	53,312	52,725	48,010	47,994	48,089	49,881

Table II. Registered live births, by month: United States and each geographic region, 1933-63—Con.

(Notes to tables given on page V)

Area and year	Total	Jan.	Feb.	Mar.	Apr.	May
<u>South</u>						
1963-----	1,319,450	112,218	101,456	107,830	97,658	99,602
1962-----	1,339,670	113,764	102,770	110,494	101,596	103,092
1961-----	1,356,490	116,332	104,916	111,304	99,928	102,028
1960-----	1,353,878	114,276	106,284	109,862	99,542	100,914
1959-----	1,363,734	116,700	103,528	111,208	100,278	101,324
1958-----	1,354,060	114,156	102,142	108,468	99,210	103,762
1957-----	1,370,000	115,378	102,688	110,836	101,424	104,504
1956-----	1,359,840	114,598	107,304	112,366	98,560	99,038
1955-----	1,328,884	111,419	102,365	107,215	95,838	99,421
1954-----	1,332,582	113,670	100,184	102,336	95,694	99,860
1953-----	1,302,542	112,534	100,538	102,426	89,904	96,212
1952-----	1,280,568	108,256	102,020	103,514	90,016	90,882
1951-----	1,268,476	108,114	97,302	104,146	95,462	99,952
1950-----	1,214,031	105,765	94,582	99,813	83,478	88,574
1949-----	1,220,793	105,944	95,101	100,808	86,717	90,874
1948-----	1,214,890	105,998	100,308	100,601	92,006	90,129
1947-----	1,251,144	118,880	103,261	107,993	93,718	95,304
1946-----	1,131,657	81,463	74,087	79,597	73,229	76,004
1945-----	979,486	88,791	79,161	81,953	74,369	75,975
1944-----	1,021,966	88,336	82,911	82,441	75,219	75,801
1943-----	1,049,948	94,178	85,008	90,509	81,515	79,933
1942-----	979,766	83,522	76,359	80,773	73,235	71,400
1941-----	917,178	79,159	72,784	80,078	74,155	71,203
1940-----	866,688	74,307	71,287	73,303	67,791	69,396
1939-----	836,222	72,420	65,312	71,919	66,953	64,681
1938-----	841,745	72,985	68,128	72,417	67,705	67,846
1937-----	812,480	68,637	65,154	70,235	64,979	65,652
1936-----	786,219	69,247	67,196	70,299	63,064	60,454
1935-----	803,952	71,041	65,547	69,490	63,746	62,962
1934-----	818,740	70,686	63,529	67,415	63,404	65,283
1933-----	767,505	65,980	61,216	67,532	62,077	61,855
<u>West</u>						
1963-----	682,456	54,980	51,352	57,332	54,572	57,318
1962-----	693,190	55,862	51,888	58,064	55,692	58,138
1961-----	698,260	56,304	51,918	58,568	55,812	58,226
1960-----	687,732	53,472	52,000	56,198	54,050	57,278
1959-----	650,480	50,794	47,745	53,950	51,894	53,668
1958-----	629,498	49,880	47,504	52,418	50,446	53,214
1957-----	631,928	49,574	46,022	51,972	50,248	52,974
1956-----	610,874	47,616	46,244	50,344	48,456	50,742
1955-----	582,535	45,517	42,379	48,122	45,371	48,227
1954-----	571,844	46,458	42,812	48,110	45,354	47,512
1953-----	559,476	44,164	41,462	46,636	44,596	46,074
1952-----	538,972	42,024	40,730	43,798	41,598	44,292
1951-----	505,446	39,892	37,178	41,940	39,568	43,012
1950-----	477,678	38,856	35,910	40,090	37,995	40,145
1949-----	475,523	38,415	35,534	39,642	38,346	39,907
1948-----	467,458	37,830	35,774	39,270	37,517	39,468
1947-----	477,449	42,675	38,207	41,590	38,694	40,348
1946-----	418,834	27,930	25,957	29,072	29,141	30,666
1945-----	351,372	29,334	26,736	29,926	28,903	29,552
1944-----	349,569	28,516	27,079	28,875	27,854	29,047
1943-----	348,072	28,771	26,436	29,741	28,485	29,359
1942-----	313,811	23,908	22,005	25,039	24,144	25,711
1941-----	266,831	20,806	19,272	21,910	21,494	22,884
1940-----	249,528	19,458	19,350	21,272	20,305	21,612
1939-----	234,350	19,068	17,482	19,847	19,252	19,774
1938-----	232,621	19,178	17,427	19,738	18,821	20,044
1937-----	218,246	17,640	15,936	18,378	17,490	18,598
1936-----	201,931	16,207	15,434	16,720	16,369	17,214
1935-----	194,850	16,450	14,542	16,650	16,134	16,371
1934-----	191,030	15,667	14,487	16,123	15,260	15,860
1933-----	180,730	15,238	13,999	15,656	15,014	15,800

Table II. Registered live births, by month: United States and each geographic region, 1933-63—Con.

(Notes to tables given on page V)

June	July	Aug.	Sept.	Oct.	Nov.	Dec.
101,724	115,290	123,696	121,852	117,824	107,692	112,608
101,528	117,036	123,484	121,436	118,750	110,990	114,730
104,622	119,296	125,960	123,884	120,638	112,360	115,222
102,800	117,832	126,484	126,296	119,216	112,460	117,912
106,724	120,414	126,700	124,470	120,584	113,656	118,148
104,228	116,958	122,558	126,240	124,278	114,808	117,252
108,318	123,300	126,546	124,594	122,746	113,696	115,970
104,290	118,920	127,254	124,406	122,264	113,902	116,938
101,734	116,199	125,297	123,279	117,782	112,417	115,918
106,816	120,440	124,654	121,306	118,174	113,378	116,070
104,374	120,862	122,520	118,520	111,424	108,226	115,002
99,122	115,884	120,910	117,634	114,590	107,416	110,324
100,058	110,596	115,724	113,234	112,248	104,622	107,018
95,926	107,071	114,080	110,174	108,080	101,219	105,269
95,713	110,201	113,671	109,725	107,998	101,427	102,614
88,346	105,379	112,258	110,024	106,749	100,136	102,956
98,161	106,807	110,694	108,257	106,948	100,611	100,510
80,305	96,808	108,120	112,042	116,768	115,493	117,741
76,776	85,292	88,704	86,724	82,807	78,853	80,081
80,731	94,216	95,402	88,098	86,973	84,468	87,370
83,117	92,440	96,159	91,964	88,748	82,352	84,025
71,796	81,339	88,572	91,021	91,288	84,250	86,211
74,129	84,018	83,676	77,694	73,363	71,854	75,065
68,321	75,020	78,998	77,547	72,252	67,276	71,190
63,369	72,284	76,815	75,778	72,862	66,785	67,044
64,880	72,219	75,607	73,725	71,205	67,143	67,885
63,069	69,881	74,041	72,934	69,358	63,025	65,515
62,168	68,552	70,218	68,653	65,754	59,284	61,330
63,741	69,682	72,317	71,789	67,482	62,218	63,937
62,312	68,046	75,300	76,357	72,892	66,717	66,799
59,724	66,091	68,233	63,402	63,644	62,770	64,981
55,858	59,564	60,270	60,124	59,178	55,006	56,902
58,520	60,220	61,746	59,500	59,788	55,864	57,908
58,264	60,424	61,936	61,114	60,448	56,718	58,528
56,830	61,020	61,454	61,578	58,742	55,846	59,264
53,298	57,062	57,452	58,146	57,600	53,416	55,444
51,802	53,910	54,084	55,836	55,042	51,410	53,952
52,750	55,916	56,154	55,762	55,430	51,886	53,240
49,822	53,982	54,778	54,254	52,594	50,184	51,858
48,104	51,505	52,296	51,768	51,170	48,276	49,800
47,196	50,244	50,392	50,078	49,462	46,266	47,960
46,320	48,954	50,060	49,428	47,568	45,470	48,744
43,986	48,360	48,694	48,314	46,634	44,368	46,174
42,080	44,646	44,860	43,976	44,466	41,168	42,660
39,487	41,265	42,319	41,440	41,046	39,015	40,110
39,482	41,914	42,532	41,519	40,989	38,648	38,595
38,469	40,516	41,532	40,059	39,538	38,070	39,415
38,954	41,700	41,378	40,171	39,410	36,793	37,529
31,769	36,771	39,959	41,141	42,500	41,736	42,192
29,104	31,130	30,540	30,234	29,517	27,820	28,576
29,300	30,332	31,000	29,720	29,727	28,639	29,480
29,328	31,103	30,494	30,164	29,164	27,065	27,962
25,660	27,210	27,522	27,953	29,013	27,503	28,143
22,776	24,975	23,956	22,105	22,261	21,965	22,437
20,717	21,770	22,281	21,232	20,925	19,736	20,870
19,879	20,508	21,010	19,945	19,972	18,687	18,926
19,829	20,762	20,434	20,063	19,640	18,212	18,473
18,381	19,627	19,759	18,783	17,926	17,227	18,501
16,708	17,727	17,902	17,294	17,036	16,392	16,928
16,450	17,385	17,384	16,566	16,105	15,216	15,597
15,750	16,150	16,964	16,405	16,381	15,851	16,132
15,031	15,377	15,330	14,256	14,986	14,682	15,361

Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

Area, color, and year	Total	Jan.	Feb.	Mar.	Apr.	May
<u>UNITED STATES</u>						
<u>White</u>						
1963-----	3,326,344	272,502	250,452	277,690	264,658	273,554
1962-----	3,394,068	277,664	258,084	287,002	269,180	275,586
1961-----	3,600,864	294,620	275,372	304,816	285,834	291,672
1960-----	3,600,744	288,866	277,712	296,636	278,550	284,242
1959-----	3,597,430	292,870	272,618	305,252	283,660	288,990
1958-----	3,572,306	289,736	271,962	296,674	280,040	294,524
1957-----	3,621,456	292,474	269,154	296,308	284,396	295,830
1956-----	3,545,350	286,020	275,446	293,578	264,606	271,028
1955-----	3,458,448	279,053	260,860	284,887	266,029	280,467
1954-----	3,443,630	282,140	258,714	279,048	263,638	274,756
1953-----	3,356,772	275,066	254,526	271,972	249,192	266,824
1952-----	3,322,658	266,704	257,564	273,870	254,272	261,888
1951-----	3,237,072	258,730	241,694	268,994	256,706	271,832
1950-----	3,063,627	254,720	233,570	253,174	224,658	239,116
1949-----	3,083,721	257,929	235,660	260,066	236,171	245,118
1948-----	3,080,316	256,462	248,024	262,024	242,612	237,891
1947-----	3,274,620	301,172	267,574	289,170	260,384	270,630
1946-----	2,913,645	193,277	179,527	199,711	194,827	206,949
1945-----	2,395,563	205,725	186,741	201,783	188,114	194,969
1944-----	2,454,700	206,137	195,547	199,797	187,059	195,694
1943-----	2,594,763	231,703	209,453	224,997	208,496	209,734
1942-----	2,486,934	195,838	181,886	199,448	183,842	188,821
<u>Nonwhite</u>						
1963-----	638,928	55,796	50,290	51,762	47,264	49,322
1962-----	641,580	55,636	49,988	52,778	48,264	49,130
1961-----	667,462	58,666	52,130	55,506	49,286	50,732
1960-----	657,106	56,510	51,930	53,282	48,652	48,878
1959-----	647,366	56,464	50,088	52,940	47,484	48,624
1958-----	631,506	54,500	48,006	50,704	46,138	47,994
1957-----	633,328	53,988	48,226	52,070	46,816	48,910
1956-----	617,740	53,054	49,382	51,334	43,924	44,202
1955-----	588,847	49,819	45,558	47,520	43,169	45,392
1954-----	573,732	49,430	43,604	44,620	41,368	43,688
1953-----	545,348	47,422	41,786	43,160	37,770	40,558
1952-----	524,328	44,922	42,654	43,308	37,756	38,478
1951-----	513,778	44,808	40,424	43,826	39,218	41,138
1950-----	490,522	42,556	39,034	40,864	34,210	36,670
1949-----	475,808	41,326	37,535	40,051	34,599	36,477
1948-----	454,752	39,032	37,670	38,439	35,024	34,386
1947-----	425,320	39,288	34,358	36,570	31,991	32,831
1946-----	375,027	29,444	26,860	28,610	25,819	26,503
1945-----	339,893	30,841	27,951	29,206	26,915	27,015
1944-----	340,100	29,458	27,526	28,135	25,856	26,256
1943-----	340,097	30,255	27,625	30,169	27,179	26,875
1942-----	322,062	28,413	26,263	27,564	25,521	24,773

Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

June	July	Aug.	Sept.	Oct.	Nov.	Dec.
270,670	291,626	296,212	295,328	291,570	267,384	274,698
269,198	294,974	306,870	298,972	296,678	275,932	283,928
289,882	312,918	323,968	318,184	312,934	292,272	298,392
282,466	315,886	330,422	326,652	314,064	296,316	308,932
290,666	315,364	319,502	319,454	313,268	292,694	303,092
290,212	307,662	308,994	318,490	317,718	293,512	302,782
297,104	321,860	322,840	320,172	321,586	297,052	302,680
284,594	314,882	324,866	318,620	316,376	292,958	302,376
278,176	302,050	312,314	308,799	303,915	287,536	294,362
280,518	306,158	309,852	306,504	302,788	287,298	292,216
276,340	303,368	305,228	298,650	289,268	274,990	291,348
269,646	297,548	301,734	296,770	291,140	272,886	278,636
265,128	282,408	288,482	283,786	286,134	263,856	269,322
254,299	271,799	279,645	271,627	269,861	252,339	258,819
247,711	274,733	279,122	270,814	270,981	252,355	253,061
234,031	267,715	279,435	271,942	269,415	253,692	257,073
268,441	281,883	282,008	273,431	272,884	253,883	253,160
214,689	254,925	278,644	290,967	303,875	295,750	300,504
197,495	211,396	213,401	207,437	203,426	190,997	194,079
202,660	222,711	221,574	209,266	208,326	201,523	204,406
212,524	228,326	230,004	221,995	216,358	199,376	201,797
192,699	211,518	220,648	228,839	238,124	221,422	223,849
50,314	57,128	59,516	58,206	53,970	50,936	54,424
48,864	56,520	60,092	58,044	55,268	52,134	54,862
52,108	60,604	61,516	59,444	57,180	54,284	56,006
50,262	58,328	61,808	60,698	56,488	53,538	56,732
52,148	58,402	60,576	57,766	54,930	52,994	54,950
48,104	53,298	58,884	59,628	56,102	53,088	55,060
50,950	58,160	58,608	56,830	54,668	51,106	52,996
49,078	55,508	58,218	56,108	53,358	50,700	52,874
46,671	52,217	54,907	53,174	50,389	49,029	51,002
46,490	52,762	53,426	52,064	49,070	47,842	49,368
44,906	51,096	51,222	49,090	44,934	44,976	48,428
41,694	47,904	48,742	46,912	44,996	42,262	44,700
41,660	45,800	45,782	44,922	43,032	40,446	42,722
39,580	43,739	45,449	43,748	42,044	40,158	42,470
37,731	43,485	43,652	41,809	40,499	38,601	40,043
33,681	40,295	41,533	40,569	38,305	36,860	38,958
33,472	36,457	37,673	36,714	35,656	34,483	35,827
27,613	31,411	34,034	34,518	35,624	36,365	38,226
27,017	29,555	29,754	29,011	27,539	27,055	28,034
27,646	31,210	31,099	28,129	27,742	27,594	29,449
27,326	30,330	30,981	29,174	27,452	25,908	26,823
24,910	27,609	28,877	28,609	27,465	25,569	26,489



Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

Area, color, and year	Total	Jan.	Feb.	Mar.	Apr.	May
<b>NORTHEAST</b>						
<u>White</u>						
1963-----	718,898	58,392	53,864	60,144	60,240	61,844
1962-----	725,752	58,544	55,444	62,570	59,062	60,326
1961-----	873,630	70,634	67,290	75,484	72,374	73,534
1960-----	871,362	69,152	67,756	72,784	69,046	69,596
1959-----	876,988	71,478	67,474	76,434	71,364	73,548
1958-----	882,566	70,856	67,884	74,208	72,268	76,908
1957-----	891,798	71,326	67,040	74,820	73,070	76,096
1956-----	864,482	69,450	67,566	72,424	65,622	67,966
1955-----	852,931	68,238	64,259	73,187	70,501	73,773
1954-----	844,894	68,300	64,362	71,240	67,550	70,996
1953-----	822,192	66,872	62,796	69,206	63,680	67,430
1952-----	823,128	65,844	64,178	69,668	66,762	68,420
1951-----	797,550	62,990	59,698	68,472	66,414	69,834
1950-----	756,741	61,931	57,823	63,790	58,618	61,317
1949-----	763,243	63,297	58,647	66,390	61,380	62,904
1948-----	773,420	62,739	61,987	68,304	62,981	63,012
1947-----	847,945	77,090	69,608	77,554	71,546	74,529
1946-----	752,608	49,023	45,731	51,365	51,270	56,738
1945-----	609,081	50,987	47,285	52,962	49,421	50,447
1944-----	611,372	50,657	48,031	50,004	48,131	52,080
1943-----	674,578	61,753	55,991	60,216	56,661	56,969
1942-----	662,357	48,837	46,748	52,537	49,117	53,038
<u>Nonwhite</u>						
1963-----	89,906	7,576	6,944	7,182	7,248	7,428
1962-----	87,044	7,350	6,548	7,060	6,440	6,622
1961-----	103,366	8,570	7,778	8,456	7,874	8,594
1960-----	98,690	8,244	7,744	7,738	7,384	7,492
1959-----	97,290	8,416	7,578	8,318	7,222	7,702
1958-----	93,992	7,898	7,146	7,314	7,294	7,874
1957-----	90,102	7,464	6,596	7,500	6,924	7,340
1956-----	84,772	6,860	6,452	6,840	5,890	6,044
1955-----	78,696	6,373	5,895	6,399	6,162	6,577
1954-----	74,072	6,214	5,454	5,942	5,552	5,742
1953-----	68,238	5,540	5,096	5,476	4,798	5,036
1952-----	64,782	5,266	5,298	5,184	4,916	5,084
1951-----	62,276	5,144	4,796	5,176	4,694	5,098
1950-----	58,364	4,976	4,574	4,740	4,089	4,288
1949-----	56,401	4,716	4,306	4,646	4,203	4,400
1948-----	53,695	4,325	4,290	4,389	4,030	4,118
1947-----	48,816	4,308	3,622	3,983	3,798	3,890
1946-----	39,818	2,878	2,688	2,746	2,676	2,874
1945-----	33,172	2,706	2,585	2,722	2,530	2,638
1944-----	32,172	2,657	2,454	2,590	2,397	2,632
1943-----	31,650	2,687	2,510	2,725	2,468	2,680
1942-----	29,617	2,323	2,309	2,363	2,194	2,396

Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

June	July	Aug.	Sept.	Oct.	Nov.	Dec.
60,322	63,750	62,094	62,276	61,456	56,520	57,996
57,136	62,716	65,094	63,784	63,240	58,000	59,836
72,734	75,866	77,004	75,312	74,122	69,322	69,954
68,676	75,388	79,072	78,046	76,838	71,576	73,432
72,826	76,786	75,880	75,808	73,912	69,254	72,224
73,374	74,730	74,682	76,918	76,564	70,958	73,216
73,890	77,726	76,762	77,242	78,466	71,944	73,416
71,704	76,682	77,456	76,424	76,400	70,228	72,560
71,140	72,941	73,227	72,963	73,008	69,098	70,596
68,904	74,062	73,184	73,410	72,854	69,524	70,508
69,134	73,142	72,218	71,466	70,444	65,988	69,816
68,326	73,396	72,040	71,088	70,772	65,884	66,750
65,904	68,642	69,442	68,690	69,054	63,368	65,042
64,147	67,108	67,131	65,769	65,364	61,149	62,594
62,487	68,012	66,708	64,789	66,245	60,874	61,510
60,573	67,035	67,990	66,611	66,271	62,804	63,113
71,383	72,006	70,449	68,388	68,117	63,698	63,577
57,213	66,136	71,614	74,197	77,162	75,341	76,818
51,678	53,198	52,901	51,785	51,474	48,071	48,872
52,462	54,984	53,298	51,063	51,160	49,707	49,795
56,796	58,470	57,466	55,735	54,433	49,942	50,146
52,799	56,402	56,512	60,304	64,532	60,389	61,142
7,552	8,144	7,868	7,780	7,356	7,020	7,808
6,498	7,640	8,228	7,902	7,554	7,364	7,838
8,492	9,532	9,414	9,106	8,634	8,238	8,678
7,678	8,954	9,240	9,000	8,376	8,148	8,692
8,218	8,934	8,632	8,506	8,172	7,782	7,810
7,266	7,862	8,844	8,664	7,966	7,646	8,218
7,470	8,040	8,272	7,750	7,834	7,302	7,610
7,214	7,990	7,952	7,514	7,322	7,078	7,616
6,411	6,935	7,159	6,885	6,748	6,432	6,720
5,734	6,934	6,866	6,740	6,276	6,304	6,314
5,704	6,440	6,468	6,084	5,834	5,694	6,068
5,424	5,930	5,812	5,652	5,542	5,112	5,562
5,238	5,722	5,412	5,494	5,310	4,892	5,300
4,903	5,299	5,308	5,211	5,068	4,766	5,142
4,583	5,248	5,117	5,026	4,881	4,612	4,663
4,202	4,827	4,867	4,720	4,776	4,407	4,744
3,975	4,188	4,269	4,240	4,183	4,160	4,200
3,046	3,395	3,522	3,716	4,031	4,023	4,223
2,907	2,935	2,866	2,860	2,835	2,805	2,783
2,793	3,009	2,858	2,642	2,732	2,585	2,823
2,616	2,862	2,871	2,658	2,657	2,472	2,444
2,468	2,665	2,678	2,617	2,647	2,457	2,500

Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

Area, color, and year	Total	Jan.	Feb.	Mar.	Apr.	May
<u>NORTH CENTRAL</u>						
<u>White</u>						
1963-----	1,039,008	85,138	78,114	87,522	83,240	87,086
1962-----	1,072,284	87,706	81,954	91,726	85,508	87,108
1961-----	1,115,742	90,962	86,108	96,034	89,684	90,400
1960-----	1,125,868	90,064	86,586	93,130	87,904	88,714
1959-----	1,134,826	91,530	86,868	98,134	91,066	91,626
1958-----	1,125,196	91,396	86,236	95,144	88,014	91,476
1957-----	1,152,692	92,782	86,016	93,804	90,744	94,400
1956-----	1,130,616	91,224	88,380	93,882	82,320	83,512
1955-----	1,100,426	88,663	83,636	89,432	83,430	89,572
1954-----	1,094,570	88,690	81,982	88,122	83,360	86,420
1953-----	1,060,050	85,848	79,702	84,464	77,836	85,648
1952-----	1,057,368	83,494	81,528	88,330	82,516	85,282
1951-----	1,040,800	81,244	77,322	86,660	83,876	88,738
1950-----	977,811	79,929	74,374	79,917	69,851	76,172
1949-----	977,656	81,410	74,339	83,090	75,239	78,301
1948-----	965,116	79,564	78,585	82,742	76,452	71,247
1947-----	1,019,840	92,647	83,006	90,007	80,475	84,966
1946-----	900,655	58,176	54,936	62,119	61,176	63,880
1945-----	724,915	61,540	55,974	60,300	56,871	60,322
1944-----	744,103	62,429	59,793	61,140	56,598	59,625
1943-----	796,040	71,637	64,408	68,918	63,791	64,857
1942-----	792,138	63,061	58,280	63,802	58,318	58,574
<u>Nonwhite</u>						
1963-----	115,554	9,994	9,012	9,442	8,964	9,598
1962-----	117,708	10,074	9,468	9,866	9,146	9,430
1961-----	120,838	10,484	9,492	10,476	9,448	9,622
1960-----	120,320	10,168	9,272	10,206	9,276	9,126
1959-----	121,478	10,416	9,502	10,148	9,320	9,746
1958-----	118,500	10,050	9,056	9,826	8,946	9,284
1957-----	118,264	9,938	9,018	9,446	8,802	9,426
1956-----	112,506	9,326	8,882	9,056	7,682	7,928
1955-----	103,823	8,662	7,884	8,052	7,896	8,289
1954-----	99,400	8,238	7,524	7,918	7,496	7,914
1953-----	89,622	7,530	6,718	6,924	6,148	6,982
1952-----	82,168	6,742	6,464	6,684	6,220	6,406
1951-----	76,302	6,154	5,822	6,426	5,910	6,336
1950-----	69,524	5,819	5,341	5,688	4,837	5,290
1949-----	65,913	5,473	5,268	5,541	4,885	5,209
1948-----	60,489	5,038	4,750	5,157	4,650	4,303
1947-----	54,746	4,860	4,228	4,613	4,144	4,424
1946-----	45,100	3,251	2,988	3,422	3,154	3,290
1945-----	37,430	3,208	2,951	3,126	2,935	3,050
1944-----	35,618	3,000	2,805	2,882	2,716	2,765
1943-----	34,572	2,932	2,725	3,057	2,755	2,811
1942-----	31,307	2,600	2,448	2,498	2,355	2,475

Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

June	July	Aug.	Sept.	Oct.	Nov.	Dec.
86,026	91,694	91,512	91,356	90,126	82,982	84,212
85,052	93,702	97,710	94,026	92,718	86,542	88,532
88,326	97,520	100,390	97,982	96,060	90,074	92,202
87,472	100,094	104,940	101,672	97,268	92,112	95,912
91,850	99,646	100,472	99,720	98,044	91,752	94,118
92,518	97,544	96,938	99,744	99,526	91,960	94,700
95,698	104,000	103,070	101,216	101,760	93,826	95,376
91,206	102,428	104,888	101,944	101,168	93,038	96,626
89,009	97,461	99,847	97,798	96,598	91,675	93,305
90,124	98,022	99,260	98,190	96,616	91,496	92,288
88,152	96,936	96,852	94,230	91,340	87,022	92,020
87,642	94,706	95,574	93,810	91,548	85,620	87,318
87,022	91,688	92,152	90,652	91,596	84,194	85,656
83,593	88,423	89,803	86,663	86,423	80,574	82,089
77,954	86,823	88,762	85,951	85,782	79,946	80,059
71,693	84,772	88,659	85,664	85,139	79,991	80,608
85,022	88,911	87,992	84,395	85,255	78,604	78,560
66,561	79,321	85,468	90,249	94,634	91,021	93,114
60,938	65,082	64,720	61,717	61,312	57,441	58,698
62,066	68,116	66,939	62,891	62,508	60,742	61,256
65,148	70,601	70,883	67,727	66,014	60,764	61,292
62,404	68,624	71,259	72,763	75,511	69,881	69,661
9,502	10,312	10,288	10,146	9,600	9,100	9,596
9,328	10,180	10,700	10,368	9,896	9,306	9,946
9,552	10,884	10,780	10,230	10,212	9,844	9,814
9,272	10,926	11,040	10,758	10,112	9,712	10,452
9,898	10,924	10,942	10,570	9,886	9,828	10,298
9,128	9,956	10,772	10,716	10,444	9,818	10,504
9,928	11,038	10,644	10,438	10,018	9,504	10,064
9,436	10,388	10,756	10,186	9,986	9,228	9,652
8,449	9,226	9,395	9,280	8,998	8,667	9,025
8,234	9,218	8,922	8,844	8,476	8,172	8,444
7,562	8,130	8,332	8,012	7,592	7,566	8,126
6,840	7,176	7,446	7,184	7,050	6,748	7,208
6,486	6,914	6,674	6,662	6,492	6,058	6,368
5,823	6,372	6,453	6,118	5,924	5,774	6,085
5,223	6,020	5,984	5,613	5,585	5,449	5,663
4,429	5,481	5,662	5,433	5,247	5,144	5,195
4,418	4,728	4,899	4,694	4,627	4,500	4,611
3,408	3,905	3,995	4,140	4,404	4,501	4,642
3,109	3,314	3,424	3,128	3,020	3,062	3,103
2,954	3,264	3,176	2,981	2,968	2,976	3,131
2,845	3,180	3,112	2,921	2,794	2,689	2,751
2,482	2,887	2,982	2,790	2,598	2,511	2,681

Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

Area, color, and year	Total	Jan.	Feb.	Mar.	Apr.	May
<u>SOUTH</u>						
<u>White</u>						
1963-----	965,902	80,486	73,050	79,264	72,784	73,938
1962-----	982,062	82,100	74,730	81,232	75,206	76,526
1961-----	991,266	83,198	75,704	81,324	74,070	75,988
1960-----	991,012	82,192	77,114	80,670	73,464	74,718
1959-----	995,006	83,816	74,880	81,588	74,094	75,040
1958-----	989,566	82,070	74,328	79,538	73,552	77,204
1957-----	997,326	82,914	73,904	80,040	74,492	76,648
1956-----	988,506	81,748	77,060	81,066	72,012	72,822
1955-----	967,683	80,187	73,905	77,790	70,241	72,503
1954-----	974,660	82,350	72,662	75,000	70,676	73,358
1953-----	954,216	81,420	73,434	74,948	66,166	70,828
1952-----	939,398	78,348	73,698	75,054	66,096	66,834
1951-----	925,790	77,356	70,042	74,696	69,296	72,938
1950-----	882,293	76,616	67,934	71,909	60,538	64,172
1949-----	897,140	77,246	69,374	73,399	63,603	66,499
1948-----	901,757	78,536	73,775	73,998	67,780	66,441
1947-----	953,838	90,834	78,696	82,109	71,576	72,815
1946-----	862,409	59,641	54,322	58,695	54,786	57,291
1945-----	728,125	65,408	58,163	60,112	54,442	56,133
1944-----	765,657	65,798	61,852	61,055	55,721	56,274
1943-----	789,748	70,603	63,579	67,290	60,645	59,641
1942-----	729,567	60,920	55,699	58,965	53,162	52,495
<u>Nonwhite</u>						
1963-----	353,548	31,732	28,406	28,566	24,874	25,664
1962-----	357,608	31,664	28,040	29,262	26,390	26,566
1961-----	365,224	33,134	29,212	29,980	25,858	26,040
1960-----	362,866	32,084	29,170	29,192	26,078	26,196
1959-----	368,728	32,884	28,648	29,620	26,184	26,284
1958-----	364,494	32,086	27,814	28,930	25,658	26,558
1957-----	372,674	32,464	28,784	30,796	26,932	27,856
1956-----	371,334	32,850	30,244	31,300	26,548	26,216
1955-----	361,201	31,232	28,460	29,425	25,597	26,918
1954-----	357,922	31,320	27,522	27,336	25,018	26,502
1953-----	348,326	31,114	27,104	27,478	23,738	25,384
1952-----	341,170	29,908	28,322	28,460	23,920	24,048
1951-----	342,686	30,758	27,260	29,450	26,166	27,014
1950-----	331,938	29,149	26,648	27,904	22,940	24,402
1949-----	323,653	28,698	25,727	27,409	23,114	24,375
1948-----	313,133	27,462	26,533	26,603	24,226	23,688
1947-----	297,306	28,046	24,565	25,884	22,142	22,489
1946-----	269,248	21,822	19,765	20,902	18,443	18,713
1945-----	251,361	23,383	20,998	21,841	19,927	19,842
1944-----	256,309	22,538	21,059	21,386	19,498	19,527
1943-----	260,200	23,575	21,429	23,219	20,870	20,292
1942-----	250,199	22,602	20,660	21,808	20,073	18,905

Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

June	July	Aug.	Sept.	Oct.	Nov.	Dec.
74,978	83,592	89,532	88,746	87,672	79,508	82,352
75,076	85,204	89,276	88,544	87,922	82,074	84,172
77,022	85,932	91,466	90,754	89,026	82,662	84,120
75,632	85,930	91,700	91,962	87,714	82,974	86,942
77,576	87,166	91,100	91,086	88,960	83,278	86,422
76,972	86,210	87,938	90,826	91,470	83,796	85,662
78,872	88,968	91,606	90,574	90,476	83,752	85,080
75,744	86,034	92,266	90,458	90,408	83,526	85,362
73,659	84,151	91,037	90,244	87,093	82,375	84,498
77,800	87,678	90,764	88,502	87,482	83,398	84,990
75,804	87,836	89,520	87,088	83,186	79,696	84,290
72,620	84,330	88,730	86,744	85,392	80,046	81,506
72,826	80,312	84,832	83,274	83,764	77,740	78,714
69,553	77,559	83,111	80,477	79,543	74,234	76,647
70,243	80,590	83,848	81,205	80,529	75,232	75,372
65,544	77,742	83,806	81,993	80,807	75,097	76,238
75,012	81,430	84,375	82,513	82,091	76,811	75,576
60,774	74,502	83,490	87,272	91,558	89,657	90,421
57,144	63,601	66,781	65,230	62,600	59,157	59,354
60,053	70,668	71,810	66,950	66,278	63,845	65,353
62,410	69,359	72,386	69,632	67,935	62,736	63,532
52,758	60,184	66,306	68,761	69,967	64,532	65,818
26,746	31,698	34,164	33,106	30,152	28,184	30,256
26,452	31,832	34,208	32,892	30,828	28,916	30,558
27,600	33,364	34,494	33,130	31,612	29,698	31,102
27,168	31,902	34,784	34,334	31,502	29,486	30,970
29,148	33,248	35,600	33,384	31,624	30,378	31,726
27,256	30,748	34,620	35,414	32,808	31,012	31,590
29,446	34,332	34,940	34,020	32,270	29,944	30,890
28,546	32,886	34,988	33,948	31,856	30,376	31,576
28,075	32,048	34,260	33,035	30,689	30,042	31,420
29,016	32,762	33,890	32,804	30,692	29,980	31,080
28,570	33,026	33,000	31,432	28,238	28,530	30,712
26,502	31,554	32,180	30,890	29,198	27,370	28,818
27,232	30,284	30,892	29,960	28,484	26,882	28,304
26,373	29,512	30,969	29,697	28,537	26,985	28,622
25,470	29,611	29,823	28,520	27,469	26,195	27,242
22,802	27,637	28,452	28,031	25,942	25,039	26,718
23,149	25,377	26,319	25,744	24,857	23,800	24,934
19,531	22,306	24,630	24,770	25,210	25,836	27,320
19,632	21,691	21,923	21,494	20,207	19,696	20,727
20,678	23,548	23,592	21,148	20,695	20,623	22,017
20,707	23,081	23,773	22,332	20,813	19,616	20,493
19,038	21,155	22,266	22,260	21,321	19,718	20,393

Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

Area, color, and year	Total	Jan.	Feb.	Mar.	Apr.	May
<u>WEST</u>						
<u>White</u>						
1963-----	602,536	48,486	45,424	50,760	48,394	50,686
1962-----	613,970	49,314	45,956	51,474	49,404	51,626
1961-----	620,226	49,826	46,270	51,974	49,706	51,750
1960-----	612,502	47,458	46,256	50,052	48,136	51,214
1959-----	590,610	46,046	43,396	49,096	47,136	48,776
1958-----	574,978	45,414	43,514	47,784	46,206	48,936
1957-----	579,640	45,452	42,194	47,644	46,090	48,686
1956-----	561,746	43,598	42,440	46,206	44,652	46,728
1955-----	537,408	41,965	39,060	44,478	41,857	44,619
1954-----	529,506	42,800	39,708	44,686	42,052	43,982
1953-----	520,314	40,926	38,594	43,354	41,510	42,918
1952-----	502,764	39,018	38,160	40,818	38,898	41,352
1951-----	472,932	37,140	34,632	39,166	37,120	40,322
1950-----	446,782	36,244	33,439	37,558	35,651	37,455
1949-----	445,682	35,976	33,300	37,187	35,949	37,414
1948-----	440,023	35,623	33,677	36,980	35,399	37,191
1947-----	452,997	40,601	36,264	39,500	36,787	38,320
1946-----	397,973	26,437	24,538	27,532	27,595	29,040
1945-----	333,442	27,790	25,319	28,409	27,380	28,067
1944-----	333,568	27,253	25,871	27,598	26,609	27,715
1943-----	334,397	27,710	25,475	28,573	27,399	28,267
1942-----	302,872	23,020	21,159	24,144	23,245	24,714
<u>Nonwhite</u>						
1963-----	79,920	6,494	5,928	6,572	6,178	6,632
1962-----	79,220	6,548	5,932	6,590	6,288	6,512
1961-----	78,034	6,478	5,648	6,594	6,106	6,476
1960-----	75,230	6,014	5,744	6,146	5,914	6,064
1959-----	59,870	4,748	4,360	4,854	4,758	4,892
1958-----	54,520	4,466	3,990	4,634	4,240	4,278
1957-----	52,288	4,122	3,828	4,328	4,158	4,288
1956-----	49,128	4,018	3,804	4,138	3,804	4,014
1955-----	45,127	3,552	3,319	3,644	3,514	3,608
1954-----	42,338	3,658	3,104	3,424	3,302	3,530
1953-----	39,162	3,238	2,868	3,282	3,086	3,156
1952-----	36,208	3,006	2,570	2,980	2,700	2,940
1951-----	32,514	2,752	2,546	2,774	2,448	2,690
1950-----	30,896	2,612	2,471	2,532	2,344	2,690
1949-----	29,841	2,439	2,234	2,455	2,397	2,493
1948-----	27,435	2,207	2,097	2,290	2,118	2,277
1947-----	24,452	2,074	1,943	2,090	1,907	2,028
1946-----	20,861	1,493	1,419	1,540	1,546	1,626
1945-----	17,930	1,544	1,417	1,517	1,523	1,485
1944-----	16,001	1,263	1,208	1,277	1,245	1,332
1943-----	13,675	1,061	961	1,168	1,086	1,092
1942-----	10,939	888	846	895	899	997

Table III. Registered live births, by month and color: United States and each geographic region, 1942-63—Con.

(Notes to tables given on page V)

June	July	Aug.	Sept.	Oct.	Nov.	Dec.
49,344	52,590	53,074	52,950	52,316	48,374	50,138
51,934	53,352	54,790	52,618	52,798	49,316	51,388
51,800	53,600	55,108	54,136	53,726	50,214	52,116
50,686	54,474	54,710	54,972	52,244	49,654	52,646
48,414	51,766	52,050	52,840	52,352	48,410	50,328
47,348	49,178	49,436	51,002	50,158	46,798	49,204
48,644	51,166	51,402	51,140	50,884	47,530	48,808
45,940	49,738	50,256	49,794	48,400	46,166	47,828
44,368	47,497	48,203	47,794	47,216	44,388	45,963
43,690	46,396	46,644	46,402	45,836	42,880	44,430
43,250	45,454	46,638	45,866	44,298	42,284	45,222
41,058	45,116	45,390	45,128	43,428	41,336	43,062
39,376	41,766	42,056	41,170	41,720	38,554	39,910
37,006	38,709	39,600	38,718	38,531	36,382	37,489
37,027	39,308	39,804	38,869	38,425	36,303	36,120
36,221	38,166	38,980	37,674	37,198	35,800	37,114
37,024	39,536	39,192	38,135	37,421	34,770	35,447
30,141	34,966	38,072	39,249	40,521	39,731	40,151
27,735	29,515	28,999	28,705	28,040	26,328	27,155
28,079	28,943	29,527	28,362	28,380	27,229	28,002
28,170	29,896	29,269	28,901	27,976	25,934	26,827
24,738	26,308	26,571	27,011	28,114	26,620	27,228
6,514	6,974	7,196	7,174	6,862	6,632	6,764
6,586	6,868	6,956	6,882	6,990	6,548	6,520
6,464	6,824	6,828	6,978	6,722	6,504	6,412
6,144	6,546	6,744	6,606	6,498	6,192	6,618
4,884	5,296	5,402	5,306	5,248	5,006	5,116
4,454	4,732	4,648	4,834	4,884	4,612	4,748
4,106	4,750	4,752	4,622	4,546	4,356	4,432
3,882	4,244	4,522	4,460	4,194	4,018	4,030
3,736	4,008	4,093	3,974	3,954	3,888	3,937
3,506	3,848	3,748	3,676	3,626	3,386	3,530
3,070	3,500	3,422	3,562	3,270	3,186	3,522
2,928	3,244	3,304	3,186	3,206	3,032	3,112
2,704	2,880	2,804	2,806	2,746	2,614	2,750
2,481	2,556	2,719	2,722	2,515	2,633	2,621
2,455	2,606	2,728	2,650	2,564	2,345	2,475
2,248	2,350	2,552	2,385	2,340	2,270	2,301
1,930	2,164	2,186	2,036	1,989	2,023	2,082
1,628	1,805	1,887	1,892	1,979	2,005	2,041
1,369	1,615	1,541	1,529	1,477	1,492	1,421
1,221	1,389	1,473	1,358	1,347	1,410	1,478
1,158	1,207	1,225	1,263	1,188	1,131	1,135
922	902	951	942	899	883	915



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