

**A Study of Infant Mortality
From Linked Records
By Birth Weight, Period of Gestation,
and Other Variables**
United States, 1960 Live-Birth Cohort

Mortality experience of the 1960 live-birth cohort during the first year of life, by birth weight, period of gestation, age of mother, color, sex, plurality, and age at death.

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SYMBOLS

Data not available-----	---
Category not applicable-----	...
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A STUDY OF INFANT MORTALITY FROM LINKED RECORDS BY BIRTH WEIGHT, PERIOD OF GESTATION, AND OTHER VARIABLES

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INTRODUCTION

Based on figures supplied by the U.S. Bureau of the Census,^{1,2} the infant mortality rate in the United States in 1900 was 97.3 deaths per 1,000 live births. Thus, at the turn of the century, about 10 percent of all liveborn infants died during the first year of life. The infant mortality rate fell rapidly during the first half of the century, reaching a level of 29.2 per 1,000 live births in 1950, a decrease of about 70 percent. When the relatively rapid decline experienced in the first half of the century was not sustained during the next decade, considerable attention was drawn to this change.³⁻⁷ The apparent leveling off of the infant mortality rate revived interest in a more detailed analysis of the variables related to infant mortality than can be made from the information recorded on the death certificate alone; many factors affecting an infant's chances of survival are found only on his birth certificate. Such factors as weight at birth, period of gestation, age of mother, and plurality should be analyzed in conjunction with the information recorded on the death certificate.

Following this period in the 1950's in which the infant mortality rates were relatively stable, they began to decline again, slowly at first, but since 1965 the rate of decline has increased somewhat. However, it still does not match the decline that occurred during the first half of the century.

The infant mortality rate, as shown in official vital statistics, is derived from two independent sets of records; the numerators are based on counts derived from death certificates and the denominators are based on counted live-birth certificates. Both of these sets of records relate to events occurring in a given calendar year.

Each set of records is tabulated separately and the number of infant deaths is divided by the number of live births to produce the infant mortality rate. Infant mortality rates can be computed in this manner only for characteristics which appear on both records.

Infant deaths are reported on the same certificate as are all other deaths; therefore, no information is available for them on variables such as age of mother or birth weight. For this reason it is not possible to compute infant mortality rates for these variables in the usual way. To study the effect that these characteristics have on infant mortality, the death records for specific individuals must be linked to the birth records for the same individuals, and the data for the infant deaths and live births must be tabulated according to the desired variables. This type of analysis may point out subgroups of the population that are at a greater risk of dying than the overall population, and this in turn may suggest certain preventive measures that can be taken. It may also indicate fruitful avenues for further investigation.

Since data of this type are rarely collected and are of undeniable value in answering questions that are difficult if not impossible to resolve in any other way, the National Center for Health Statistics (NCHS), cooperatively with the State offices of vital statistics, developed a file of linked infant death and live-birth records for the 1960 cohort of liveborn infants. This report is one of a group of reports analyzing the mortality experience in the first year of life of the 1960 live-birth cohort as determined from this file of linked records. It presents data for the United States and examines the effect that the following variables have on infant mortality: birth weight, period of gestation, age at death, color, sex, plurality, and age of mother.

Although the data which form the basis of this report concern mortality among infants born a number of years ago, there was relatively little change in the rates of infant mortality between 1960 and 1965. Since 1965 there has been a steady but modest drop amounting to a few percentage points a year. Furthermore, the types of data presented in this report are relatively independent of time, and therefore the fact that the rates are based on the 1960 live-birth cohort is thought to be of little consequence.

DESCRIPTION OF THE STUDY

In 1959 the National Office of Vital Statistics^a queried the States to determine whether they would be willing to participate in a study of infant mortality which would identify all deaths under 1 year of age among the cohort of infants born alive in the United States in 1960. In time, most of the States agreed to make the necessary searches, and arrangements were made to complete the searches in the nonparticipating States through other means. The States were asked to supply copies of the linked death and live-birth certificates for infants who were born in 1960 and died under 1 year of age either in 1960 or in 1961. In compiling the national file of linked records, a number of searches were required. The search for the certificates in question was made in the official permanent files in the States where the infants died, in other States for infants who moved across State boundaries between the time of birth and death, and at NCHS using microfilm copies of certificates and computer tapes of statistical records. Upon completion, a nationwide file of linked infant death and live-birth records had been compiled. In addition to the 107,038 linked records, there were 2,293 infant death records for which no birth records could be found, and 530 linked records supplied by the States for which no record could be found at NCHS. A more complete discussion of the methodology of the study is given in an earlier report of this series.⁸

^aThe National Office of Vital Statistics became part of the National Center for Health Statistics (NCHS) in the fall of 1960.

LIMITATIONS AND QUALIFICATIONS OF THE DATA

After the matching procedure was completed, there were three files of records: (1) a file of 107,038 linked infant death and live-birth records, (2) a file of 2,293 infant death records for which neither the State nor NCHS could locate a birth record, and (3) a file of 530 matched infant death and birth records from the States for which NCHS had no records. The file of 107,038 linked records is the basis of this study. Although the 530 matched records represent a bona fide record of infants who died under 1 year of age and who were born in the United States in 1960, they were not added to the major file of linked records because the data available for that group were incompatible with those of the major file.⁸

The 2,293 unlinked records and the 530 incompatible records represent 2.6 percent of the total file of deaths of infants born in 1960. For white infants 2.2 percent of the records were excluded, and for the remainder of the population the comparable figure was 3.7 percent. The degree of success of the matching procedures obviously had an effect on the quality of the statistics presented in this report. The failure to match all records and the failure to include the 530 linked records caused the mortality rates in this report to be understated. If these 2,823 records had been included, the infant mortality rate for the United States would have been 25.8 deaths per 1,000 live births, or about 2.8 percent higher than the rate of 25.1 based on the linked records alone.

A new set of punchcards containing data from both the live-birth and death certificates was prepared for this study. This introduced some inconsistencies with published data even though the same instruction manual was used in both cases. Some of the inconsistencies became apparent when the data were tabulated. Problems of this sort were identified as to geographic area, then the microfilm tapes were retrieved and the data corrected. It is recognized, however, that other errors of lesser degree may exist in the data that have gone undetected and consequently remain uncorrected. The major cause of errors was an inconsistency in selecting the certificate number for punching for States that

did not use a single sequential numbering system for the entire State for the calendar year 1960. Use of incorrect certificate numbers resulted in linkage failures in some of the computer operations used in the processing. Wherever these were detected, they were corrected by manually searching the microfilm.

Another limitation of the data stems from the fact that not all birth records were coded by NCHS for 1960. For that year, every second live-birth certificate for each State was coded, yielding a 50-percent systematic sample. Tabulated frequencies were doubled to get estimates of the number of live births by most variables. However, all linked infant death and live-birth records were included, whether or not the corresponding birth record fell into the sample.

The usual method of calculating the infant mortality rate by age at death is to divide the number of deaths in the age interval by the number of live births. When the age interval is one that does not begin at birth, the use of all live births as the divisor results in rates that are slightly too low since some deaths have already occurred among these live births. In most cases there are not enough of these deaths to significantly affect the rates. However, whenever the mortality rates are extremely high immediately after birth, as is the case with low birth weight infants, the age-specific rates at later ages may be markedly affected.

Therefore whenever "rates" that include age at death as a variable have been shown in the tables of this report, they have been calculated twice; one set of rates is based on the number of live births and the other on the number of survivors alive at the beginning of each age interval. To avoid confusion in both the text and the tables, the set based on live births have been termed "rates," while those based on survivors have been called "probabilities of dying," or merely "probabilities." Technically both of these sets of rates are probabilities since they are based on the actual population at risk in each case. The probability of dying is the more accurate of the two measures of mortality since it is based on the actual population at risk. The infant mortality rate is merely an estimate of the probability of dying during the first year of life and is used primarily because the actual population at risk is usually not known. Infant mortal-

ity rates are usually based on the number of infant deaths and live births that occur in the same calendar year. For this reason the rates presented in this report should not be expected to agree exactly with the rates that were published covering the year 1960.

ANALYSIS

Birth Weight, Color, Sex, and Age at Death

Characteristics of live births.—The vast majority of children born in 1960 weighed over 2,500 grams at birth. In fact, only 7.8 percent weighed 2,500 grams or less (table A). However, 59 percent of all infant deaths were contributed by this small group of low birth weight infants.

The birth of a liveborn infant weighing 1,000 grams or less was a very infrequent event (only 0.6 percent of all live births). Each 500-gram increment in birth weight brought a sharp increase in the proportion of children born, with the result that nearly two-thirds of the immature (low birth weight) births fell in the weight group 2,001-2,500 grams.

The area of peak concentration of births was between 2,501 and 4,000 grams. The first 500-gram group in this interval (2,501-3,000) contained 18.5 percent of all births, while almost two-thirds weighed 3,001-4,000 grams. Only a comparatively small proportion of births (1.6 percent) weighed 4,501 grams or more at birth.

White babies weighed on the average 180 grams more than babies of other races (table A). This difference is considerably larger than the 50-gram difference found by Shapiro⁹ in 1950. The overall distribution of birth weights by color is notably different for white and other infants (table A). A greater proportion of infants of races other than white were born at the immature weights where the major problems of obstetric and pediatric care exist. Infants weighing 2,500 grams or less represented 6.8 percent of all white live births as compared with 12.9 percent for all other infants.

Comparison of the percentages of white and all other births at weights around the modal groups for the distributions also reveal some variation. For both, the highest proportion of births occurred at 3,001-3,500 grams. However for whites, the second largest percentage of births occurred in the next heavier weight group

Table A. *Percentage distribution of live births, by birth weight, color, and sex

Color and sex	Total	Birth weight									Median weight in grams ¹	Percent weighing 2,500 grams or less
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more		
Percentage distribution												
Total	100.0	0.6	0.7	1.5	5.1	18.5	38.0	26.8	7.5	1.6	3,310	7.8
Male	100.0	0.6	0.7	1.4	4.5	15.8	36.3	29.5	9.2	2.0	3,370	7.1
Female	100.0	0.6	0.6	1.5	5.7	21.3	39.7	23.9	5.6	1.0	3,260	8.5
White	100.0	0.5	0.6	1.3	4.5	17.2	38.1	28.2	8.0	1.6	3,340	6.8
Male	100.0	0.5	0.6	1.2	4.0	14.6	36.1	31.0	9.9	2.1	3,400	6.3
Female	100.0	0.5	0.5	1.3	5.1	20.1	40.3	25.2	6.0	1.0	3,280	7.4
All other	100.0	1.0	1.2	2.5	8.3	25.3	37.1	18.9	4.6	1.3	3,160	12.9
Male	100.0	1.0	1.1	2.3	7.2	22.4	37.4	21.3	5.6	1.5	3,210	11.7
Female	100.0	1.0	1.2	2.6	9.3	28.1	36.8	16.4	3.6	0.9	3,110	14.2

¹ Rounded to the nearest 10 grams.

(3,501-4,000 grams), while for other infants it was the next lighter weight group (2,501-3,000 grams).

Another characteristic that showed weight differentials at birth is sex. On the average, females weighed less than males. There was very little difference in the proportions of male and female infants weighing under 2,001 grams (table A). At 2,001-2,500 grams, however, the proportion of female births turned up more sharply, resulting in the proportion of low birth weight females being 20 percent higher than the corresponding proportion of males. The modal weight group for both male and female births in both color groups was 3,001-3,500 grams. Comparison of the percentages on each side of this weight interval demonstrates, as do the average weights, the tendency of males to reach appreciably heavier weights in utero than females. A white male infant was more than twice as likely to weigh 3,501-4,000 as 2,501-3,000 grams. For white females, the excess in the heavier group amounted to only 25 percent. For infants of other races the reverse was true, with the lighter group being larger for males by 5.2 percent and

for females by 71.3 percent. Also, larger proportions of male than female infants were born in every interval above 3,500 grams. This was true for both color groups.

Analysis of mortality experience.—The infant mortality rate for the 1960 live-birth cohort was 2,513.9 per 100,000 live births. However, the rate varied considerably when factors such as birth weight, age at death, length of gestation, color, sex, plurality, and age of mother were taken into account. Of these variables, the one that had the greatest effect on the rate was the birth weight of the infant (table 2). Infant mortality rates were highest for the lightest babies and declined steadily as birth weight increased, reaching a low for infants weighing between 3,001 and 4,500 grams at birth before rising slightly for infants who were exceptionally heavy at birth (table 2 and figures 1-4). The birth weight category with the lowest rate for a given age at death varied slightly by color and practically not at all by sex (figures 1 and 4).

The infant mortality rate varied considerably by both color and sex. For example, the rate for males (2,828.4) was 29.5 percent higher than

the rate for females (2,184.0). The difference by color was even greater, with a rate for infants other than white (4,142.3) that was 86.9 percent above the rate for whites (2,216.7).

It is well known, however, that birth weight is a variable that greatly affects an infant's chances of surviving the first year of life. Infants whose birth weights were 2,500 grams or less had markedly higher infant mortality rates than infants who weighed more than 2,500 grams at birth (table 2). Moreover, a baby's birth weight was related to both its color and its sex. A much greater percentage of infants of races other than white (12.9 percent) than of white infants (6.8 percent) were born weighing 2,500 grams or less. (See table B.) It therefore seemed appropriate to examine the data after adjusting for differences

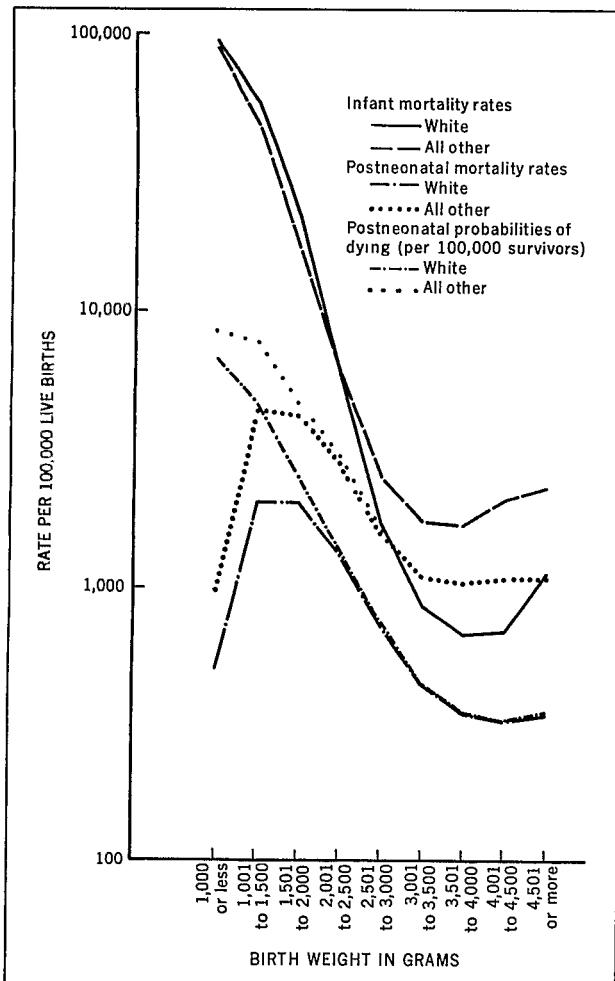


Figure 1. Infant and postneonatal mortality rates and postneonatal probabilities of dying, by color and birth weight.

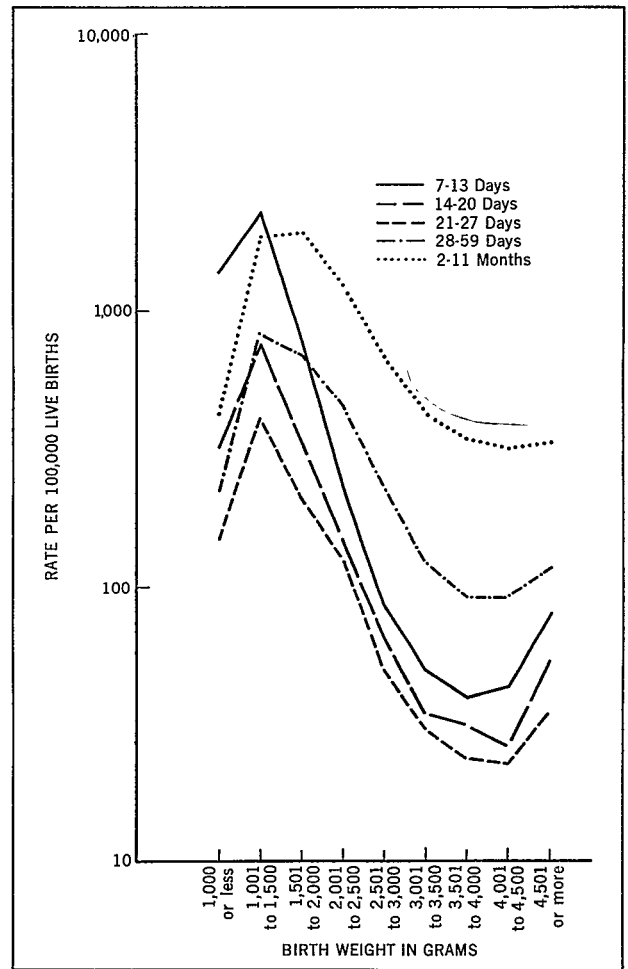


Figure 2. Infant mortality rates, by birth weight and age at death.

in birth weight. The mortality rates adjusted for differences in birth weight, using the weight distribution of all live births in 1960 as a standard, are given in table C.

When both rates were adjusted for birth weight, the infant mortality rate for infants other than white was only 29.9 percent higher than the rate for whites as opposed to an excess mortality of 86.9 percent when both rates were unadjusted. Thus differences in the distribution of births by birth weight accounted for about two-thirds of the excess mortality experienced by these infants. The excess mortality within each sex group experienced by infants of races other than white that could be explained by differences in the birth weight distribution of live births between the color groups was about the same as that for both sexes combined.

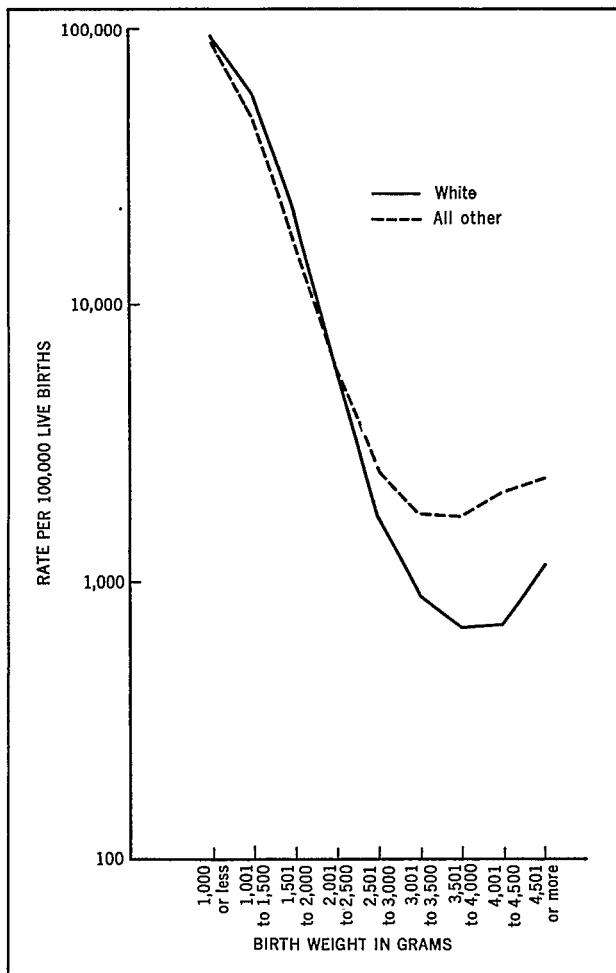


Figure 3. Infant mortality rates, by color and birth weight.

Table B. Percentage of births, by birth weight, color, and sex

Color and sex	2,500	2,501
	grams or less	grams or more
Total, both sexes	7.8	92.2
Male	7.1	92.9
Female	8.5	91.5
White	6.8	93.2
Male	6.3	93.7
Female	7.4	92.6
All other	12.9	87.1
Male	11.7	88.3
Female	14.2	85.8

Among infants weighing 2,500 grams or less at birth, infant mortality rates tended to increase rapidly as birth weight decreased (table 2). By age at death, however, only the rates for those who died under 7 days of age followed this pattern. The highest rates between 2 and 11 months occurred for those infants whose birth weights were 1,501-2,000 grams. Of the infants who died at all other ages, those with birth weights of 1,001-1,500 grams had the highest rates. The same general pattern, with only minor

Table C. Mortality rates adjusted for differences in birth weight, by color and sex

Color	Both sexes	Male	Female
Rates per 100,000 live births			
Total	2,513.9	2,911.0	2,143.6
White	2,430.9	2,817.1	2,068.6
All other	3,158.8	3,599.4	2,738.1

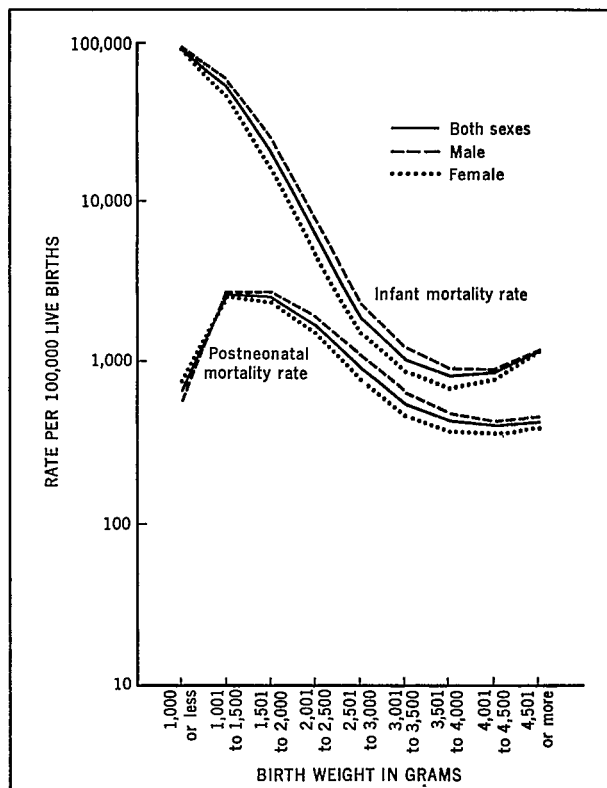


Figure 4. Infant and postneonatal mortality rates, by birth weight and sex.

variations, was observed for each of the four color-sex groups.

Infants with the very lowest birth weights tended to have extremely high infant mortality rates. For example, of every 100,000 infants with birth weights of 1,000 grams or less, nearly 92,000 died before reaching the age of 1. Furthermore these infants tended to die very early within the first year of life. Of those who died under 1 year of age, 99 percent died in the first 28 days of life and 97 percent in the first 7 days of life. Since so many of these infants died early in life, relatively few survived to any age over 7 days, and thus relatively few could possibly have died at these older ages. Therefore rates based on the number of live births tend to be misleading for low birth weight infants. For this reason a second set of rates has been computed based on the number of survivors at the beginning of each age interval. These rates are always higher than those based on the number of live births, but for the birth weight groups above 2,500 grams the differences are negligible. For infants weighing 2,500 grams or less and dying between 7 and 364 days after birth, the differences in the rates range from about 4 percent to well over 1,000 percent (table D).

When rates based on survivors were examined, it was found that for those infants whose birth weights were 2,500 grams or less, infant mortality increased as birth weight decreased (table 4). Furthermore this relationship held regardless of the infant's age at death. In addition, the same pattern held for each of the four color-sex groups; the only exception to this occurred

among infants other than white, both male and female, who died between 2 and 11 months after birth. In these two groups the probabilities of dying among babies who weighed between 1,001 and 1,500 grams at birth were higher than the probabilities of those who weighed 1,000 grams or less at birth.

Period of Gestation, Color, Sex, and Age at Death

Characteristics of live births.—As reported on birth certificates, information on length of gestation is not as accurate as information on birth weight. Some of the shortcomings can be seen in the distribution of births by length of gestation shown in table E.

Considering the size of the interval, a comparatively large proportion of all births occur at 36 weeks of gestation. This is probably the result of erroneous conversion of 9-month gestations to 36 weeks. This type of error was also present at shorter gestations, but the broad intervals into which the data have been grouped tend to reduce its effect. In addition, the heavy concentrations at 40 weeks and over are indicative, at least in part, of a failure to calculate the length of gestation for infants who seem to be normally developed at birth. Although the main result of this is to lessen the numbers in the interval 37-39 weeks, some understatement of the numbers of infants born with gestations of less than 36 weeks may also occur. This grouping at 36 weeks and at 40 weeks and over was less pronounced in 1960 than it was in 1950.⁹ The tendency of the States in recent years to ask on the birth certificate for "date of last normal menses" rather than for "length of gestation" should further reduce the heaping of births in certain gestational intervals.

Because of the substantial errors noted, data by gestational age should be taken as only being suggestive of what the actual situation is. Data are shown for relatively broad groups for comparative purposes, rather than for the absolute values

The percentage distributions of births by length of gestation in table E indicate that somewhat greater proportions of infants of races other than white than of white infants were born before the 36th week of gestation. In the

Table D. Percentage difference between rates based on survivors and rates based on live births for selected birth weights and ages at death

Age	Birth weight			
	1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams
7-13 days	844.6	94.8	20.1	3.7
14-20 days	987.7	103.9	21.2	4.0
21-27 days	1,027.3	107.2	21.7	4.1
28-59 days	1,046.6	109.0	22.0	4.3
2-11 months	1,076.6	112.7	23.1	4.8

Table E. Percentage distribution of live births, by period of gestation, color, and sex

Color and sex	Total	Period of gestation							
		Under 20 weeks	20-27 weeks	28-31 weeks	32-35 weeks	36 weeks	37-39 weeks	40 weeks or more	Not stated
Total, both sexes	100.0	0.0	0.6	0.8	2.2	3.1	15.0	72.5	5.7
Male	100.0	0.0	0.6	0.8	2.3	3.1	15.2	72.1	5.8
Female	100.0	0.0	0.5	0.8	2.1	3.1	14.8	72.9	5.7
White	100.0	0.0	0.5	0.7	2.0	2.8	15.3	72.8	6.1
Male	100.0	0.0	0.5	0.7	2.1	2.8	15.5	72.3	6.1
Female	100.0	0.0	0.4	0.6	1.9	2.7	15.0	73.3	6.0
All other	100.0	0.1	1.0	1.5	3.4	5.0	13.8	71.2	3.9
Male	100.0	0.1	1.0	1.5	3.4	4.9	13.8	71.2	4.0
Female	100.0	0.1	1.0	1.5	3.4	5.1	13.9	71.2	3.8

white group, 3.2 percent of the live births occurred prior to the completion of 36 weeks of gestation, as compared with 6.0 percent for the remainder of the population. With regard to sex, however, there appeared to be little difference between the sexes in the proportions of live births reported at these early gestations in the total population and in both color groups.

Analysis of mortality experience.—A variable highly correlated with birth weight that also greatly influenced an infant's chance of surviving its first year of life was length of gestation. Infant mortality rates were very high for infants whose period of gestation was under 20 weeks, but rose to even higher levels at 20-27 weeks of gestation. From this peak there was a steady and rapid drop in the rates as the length of gestation increased to 40 weeks or more (table 6). Each of the four color-sex groups followed exactly the same pattern except that there was a slight rise in the rates between 37-39 weeks and 40 weeks or more for both males and females of races other than white. The fact that infants with gestational ages of 20-27 weeks experienced higher rates than those whose gestational ages were under 20 weeks is difficult to explain. The pattern was consistent, being true for both color groups, both sexes, the neonatal and postneonatal periods, selected ages at death within these periods, as well as at nearly all combinations of

these variables. From a medical point of view, there is no known reason why an infant's chance of survival should be greater if his gestational period is under 20 weeks than if it is 20-27 weeks. One possible explanation of this phenomenon might be that there is more underreporting of deaths among infants in the former category than in the latter. However, this is only speculation because the amount of underreporting of deaths, regardless of age or length of gestation, is unknown.

The degree to which the length of the gestational period affects infant mortality may be seen in the following table:

Item	Total	White	All other
Percent of births with gestations of under 28 weeks	0.6	0.5	1.1
Percent of infant deaths with gestations of under 28 weeks	19.4	19.2	19.8

Thus nearly 20 percent of all infant deaths were contributed by infants who comprised only 0.5 to 1.1 percent of all live births. At the other

extreme, infants with 40 weeks or more of gestation made up more than 70 percent of all live births but only 30 to 40 percent of the infant deaths.

Infant mortality rates by color and length of gestation showed that white babies experienced lower rates than those in the remainder of the population when their lengths of gestation were under 20 weeks and when they had gestational ages of 36 weeks or more. The reverse was true when the length of gestation was between 20 and 35 weeks. A similar pattern was observed in the neonatal rates except that whites of 36 weeks of gestation also experienced higher rates than the remainder of the population in this gestational interval. During the postneonatal period, however, whites exhibited lower rates regardless of the length of gestation.

The infant mortality rates for males rose as the length of gestation increased from under 20 weeks to 20-27 weeks and then fell steadily, reaching their lowest point for infants whose gestational period was 40 weeks or more. The rates for females had exactly the same pattern,

but were slightly below the corresponding rates for males at every gestational age. The curves of the neonatal and postneonatal rates had exactly the same pattern as the one for infant mortality, namely, slightly higher rates for males than for females, a peak in the rates at 20-27 weeks of gestation, and a low point at 40 weeks or more.

The differences between the infant mortality rates and probabilities of dying within a given time interval after birth were small when the gestational age of the infant was 36 weeks or more. Virtually all infants who died before their first birthday and who had a length of gestation of under 20 weeks died in the first week of life (1,074 out of 1,078; see table 5). Therefore it was not practical to consider the probability that infants with this length of gestation died at ages above 7 days. For the three remaining periods of gestation (20-27 weeks, 28-31 weeks, and 32-35 weeks), the probabilities of dying in the age intervals above 7 days, regardless of color or sex, were approximately 400, 64, and 12 percent higher than the corresponding mortality rates (table F).

Table F. Percent by which the probability of dying within an age interval is greater than the mortality rate in that interval, by length of gestation, color, and sex: United States, 1960 live-birth cohort

Color and age interval	Both sexes			Male			Female		
	20-27 weeks	28-31 weeks	32-35 weeks	20-27 weeks	28-31 weeks	32-35 weeks	20-27 weeks	28-31 weeks	32-35 weeks
<u>Total</u>									
7-13 days	370.0	58.1	11.1	404.5	68.9	13.2	334.6	47.3	8.9
14-27 days	401.7	62.2	11.7	434.6	73.5	13.8	367.4	51.0	9.4
28 days-5 months	416.7	64.3	12.1	453.0	75.7	14.2	379.2	52.9	9.8
6-11 months	437.1	69.8	13.8	476.1	82.1	16.2	397.5	57.6	11.1
<u>White</u>									
7-13 days	455.9	68.1	12.4	487.3	79.0	14.5	421.1	56.6	10.1
14-27 days	494.1	72.6	13.0	524.6	84.2	15.1	460.2	60.5	10.6
28 days-5 months	512.3	74.3	13.3	545.9	86.1	15.5	475.1	62.0	10.9
6-11 months	531.7	79.0	14.7	567.2	91.7	17.1	491.3	65.7	12.0
<u>All other</u>									
7-13 days	235.6	38.4	7.3	262.2	47.3	9.0	211.3	30.5	5.6
14-27 days	257.3	41.8	7.8	281.3	50.7	9.6	235.0	33.9	6.1
28 days-5 months	267.7	44.4	8.4	294.8	53.5	10.2	242.7	36.3	6.7
6-11 months	287.5	51.2	10.8	317.1	61.2	13.0	260.0	42.4	8.7

Within each gestational period, the percent increase in the rate obtained by dividing deaths by the number of survivors instead of by the number of live births was lowest in the age interval 7-13 days and increased steadily to a high in the interval 6-11 months. Thus while data by age at death were affected slightly by replacing the number of live births by the number of survivors in the calculation of rates, the greatest effect by far was on the three gestational periods under discussion, particularly the period from 20 to 27 weeks. The pattern that was observed for the total population was also observed for each sex and each color group and for each of the four color-sex groups. The differences by color were much greater than those by sex. Among the four color-sex groups the greatest differences in the rates occurred in the rates for white males, with the differences decreasing steadily in the white female, other male, and other female groups; the percent differences in the latter group running generally less than half those of the white males. This reflects the higher neonatal rates that the white population experiences in these three gestational groups (table 6).

The comparison of mortality rates by age at death can be misleading since the age intervals involved vary from 1 week to 6 months; and obviously, the longer the period of time that is under consideration the greater are the chances of a death occurring during the interval. This is true whether the rates are based on the number of live births or on the number of survivors to a given age. In the following discussion all rates are weekly rates and are based on survivors (i.e., probabilities of dying). If death occurs under 7 days of age, the rates and the probabilities are identical; therefore, that category has been eliminated and only the categories 7-13 days, 14-27 days, 28 days-5 months, and 6-11 months are discussed here. Also, because of the small number of deaths at ages 7 days or more among infants whose gestational age was under 20 weeks, this gestational category was dropped but all the others, including the "not stated" category, have been considered.

When both color and sex are ignored, the probabilities of dying dropped regularly and substantially with increasing age at death for all infants, regardless of length of gestation. Fur-

thermore, when plotted, the shapes of the curves, in addition to falling with increasing age at death, were generally concave upward indicating that age, while still a factor, becomes less important as the infant approaches his first birthday (figure 5). The foregoing statements were also true for each color, each sex, and each color-sex group.

For all infants the probabilities of dying at various ages when their lengths of gestation were not stated were somewhat lower than when their gestational period was stated to have been 36 weeks. This was also true for the male, female, and white groups. However, among the remaining infants with length of gestation not stated, the probabilities of dying at the various ages under consideration generally were higher than those in the gestational period 36 weeks but lower than the probabilities in the interval 32-35 weeks. Thus it appears that white infants whose length of gestation was not stated tend to be full-term babies, but infants of other races in this category were more likely to be somewhat less than full term.

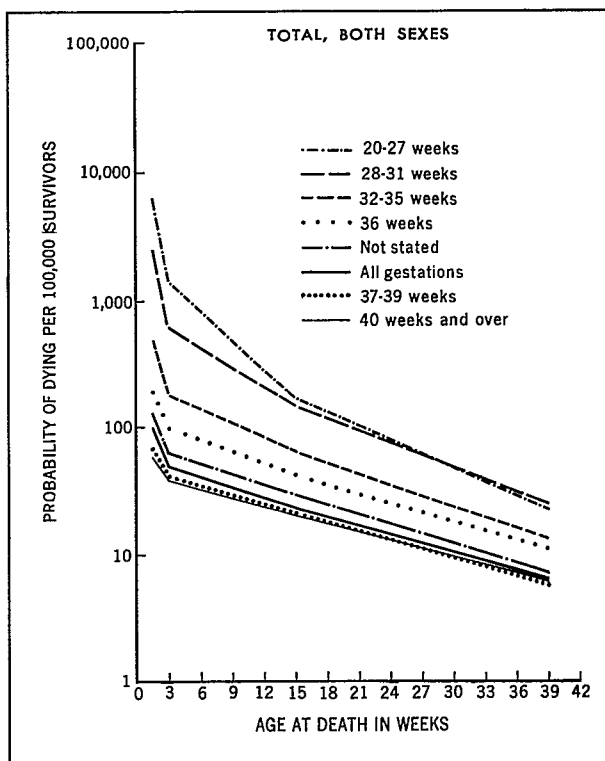


Figure 5. Average weekly probabilities of dying, by length of gestation and age at death.

Birth Weight, Age of Mother, Plurality, Color, and Age at Death

Characteristics of live births.—For the entire country, 7.8 percent of the live births weighed 2,500 grams or less. Among white babies 6.8 percent fell into this category, while the comparable percentage for the remainder of the population was 12.9 percent.

Only 6.8 percent of infants born in single deliveries weighed less than 2,500 grams at birth, while a majority (53.9 percent) of those born in plural deliveries fell into this category.

Among single births nearly twice as many infants of races other than white (11.7 percent) than white infants (5.9 percent) weighed 2,500 grams or less at birth. The difference between the color groups for plural births was only 17.5 percent.

Mothers under 20 years of age (especially those under 15) and those 45 years old and over were more likely to bear infants weighing 2,500 grams or less than other women (table G). This pattern was observed regardless of color or of the plurality of the birth.

In all cases mothers under 15 had the greatest chance of bearing an immature infant. This risk increased as birth weight decreased and was greatest when the infant weighed 1,000 grams or less at birth. About 1.7 percent of the infants born to mothers under 15 years of age weighed 1,000 grams or less at birth compared with 0.7 percent or less for mothers of all other ages.

Most (65.8 percent) infants born in single deliveries weighed between 3,001 and 4,000 grams, while most (58.8 percent) of those born in plural deliveries weighed between 2,001 and 3,000 grams.

Analysis of mortality experience.—In considering infant mortality rates by birth weight and age of mother, comparisons of infants weighing more than 4,000 grams at birth were difficult to make because of the small numbers of births and deaths in these groups, particularly for women under 20 years of age and women 40 years of age and over. Therefore, within each age group, births and deaths were summed for infants weighing 3,501 grams or more at birth. When this was done a consistent pattern emerged. Below 1,501 grams, babies born to mothers under 20 years of age or 40 years of age

and over had a slightly better chance of surviving the first year of life than did babies whose mothers were 20-39 years of age. However, for infants weighing 1,501 grams or more, the reverse was true. In these weight groups, infants born to mothers under 15 years of age or 45 years and older consistently had higher mortality rates than all other infants. A baby's chance of survival was best if his mother was between 25 and 34, with the ages 20-24 and 35-39 showing survival rates not far behind. When the two oldest and two youngest categories of age of mother were combined and compared with the other four age groups combined (table H), the mothers in the former group had higher rates in every birth weight group except the lightest. The ratio of these rates rose with birth weight from 1.06 at 1,501-2,000 grams to 1.36 at 3,501 grams or more. Under 1,000 grams the ratio of the infant mortality rates was 0.97.

When color and plurality were considered simultaneously with birth weight and age of mother, the following points were observed:

1. Among single births the white population had higher infant mortality rates than the remainder of the population at all birth weights up to 2,500 grams. Thereafter the rates for the population other than white exceeded those of the whites.

2. Among plural births the rates for the white population exceeded those for the remainder of the population only in the two lightest birth weight groups. Beginning with the category 1,501-2,000 grams, the rates for infants other than white exceeded those of the whites, and this discrepancy widened as birth weight increased up to the category 3,501-4,000 grams.

The highest rates for "all other" to rates for whites were about 2½ to 1 for both single and plural births. This pattern persisted, with only minor variations, throughout the range of ages of mother.

When considering the postneonatal period, probabilities of surviving from 28 days to the first birthday (rather than rates based on live births) were examined. Here again, because of small frequencies, categories at each end of the

Table G. Percentage distribution of live births, by birth weight, color, age of mother, and plurality

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL BIRTHS										
<u>Total</u>										
Percentage distribution										
All ages	100.0	0.6	0.7	1.5	5.1	18.5	38.0	26.8	7.5	1.5
Under 15 years	100.0	1.7	2.0	2.9	9.6	29.0	37.0	14.7	2.6	0.4
15-19 years	100.0	0.7	0.9	2.0	6.4	21.4	39.5	23.3	5.1	0.7
20-24 years	100.0	0.5	0.6	1.4	4.9	19.1	39.5	26.3	6.6	1.1
25-29 years	100.0	0.5	0.6	1.3	4.7	17.8	38.0	27.7	7.9	1.6
30-34 years	100.0	0.6	0.6	1.4	4.9	17.1	36.0	28.2	9.0	2.2
35-39 years	100.0	0.6	0.6	1.6	5.2	16.4	34.4	28.5	9.9	2.8
40-44 years	100.0	0.5	0.7	1.6	5.5	16.2	32.9	28.2	10.9	3.4
45 years and over	100.0	0.6	0.9	1.9	6.3	15.2	33.1	27.6	10.9	3.4
<u>White</u>										
All ages	100.0	0.5	0.6	1.3	4.5	17.2	38.1	28.2	8.0	1.6
Under 15 years	100.0	1.0	1.4	2.6	6.5	22.8	39.8	21.4	4.2	0.4
15-19 years	100.0	0.6	0.8	1.7	5.3	19.0	40.1	25.9	5.8	0.8
20-24 years	100.0	0.5	0.5	1.2	4.4	17.9	39.7	27.7	7.1	1.1
25-29 years	100.0	0.4	0.5	1.1	4.2	16.9	38.1	28.9	8.3	1.7
30-34 years	100.0	0.5	0.5	1.2	4.5	16.3	36.1	29.2	9.4	2.2
35-39 years	100.0	0.5	0.6	1.4	4.8	15.7	34.5	29.4	10.4	2.8
40-44 years	100.0	0.5	0.6	1.5	5.2	15.5	33.0	28.9	11.3	3.3
45 years and over	100.0	0.6	0.8	1.9	5.6	14.3	33.6	28.6	11.3	3.3
<u>All other</u>										
All ages	100.0	1.0	1.2	2.5	8.3	25.3	37.1	18.9	4.6	1.2
Under 15 years	100.0	2.1	2.3	3.1	11.4	32.8	35.4	10.8	1.6	0.5
15-19 years	100.0	1.3	1.5	3.1	10.2	29.7	37.1	14.2	2.5	0.5
20-24 years	100.0	1.0	1.1	2.4	8.2	26.6	38.5	17.8	3.7	0.8
25-29 years	100.0	1.0	1.1	2.2	7.4	23.7	37.7	20.7	5.1	1.2
30-34 years	100.0	1.0	1.1	2.3	7.6	21.8	35.7	22.1	6.4	2.0
35-39 years	100.0	0.9	1.0	2.4	7.6	20.9	34.0	23.1	7.4	2.8
40-44 years	100.0	0.7	0.9	2.2	7.4	20.4	32.1	24.1	8.6	3.7
45 years and over	100.0	0.6	1.2	2.1	9.6	19.1	30.6	23.3	9.3	4.2

Table G. Percentage distribution of live births, by birth weight, color, age of mother, and plurality—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
SINGLE BIRTHS										
<u>Total</u>										
Percentage distribution										
All ages	100.0	0.5	0.5	1.2	4.6	18.3	38.5	27.3	7.6	1.6
Under 15 years	100.0	1.5	2.0	2.7	9.3	29.2	37.4	14.9	2.6	0.4
15-19 years	100.0	0.6	0.8	1.7	6.1	21.4	39.9	23.6	5.2	0.7
20-24 years	100.0	0.4	0.5	1.1	4.5	19.0	40.0	26.7	6.7	1.1
25-29 years	100.0	0.4	0.5	1.0	4.1	17.5	38.5	28.3	8.0	1.7
30-34 years	100.0	0.5	0.5	1.1	4.3	16.7	36.6	28.9	9.2	2.3
35-39 years	100.0	0.5	0.5	1.2	4.5	16.0	35.0	29.2	10.2	2.9
40-44 years	100.0	0.4	0.6	1.4	4.9	15.9	33.3	28.8	11.2	3.5
45 years and over	100.0	0.5	0.8	1.7	5.9	15.1	33.4	28.0	11.1	3.5
<u>White</u>										
All ages	100.0	0.4	0.5	1.0	4.0	17.0	38.6	28.7	8.1	1.6
Under 15 years	100.0	0.8	1.4	2.5	6.2	22.8	40.2	21.6	4.2	0.4
15-19 years	100.0	0.5	0.7	1.5	5.0	19.0	40.5	26.2	5.9	0.8
20-24 years	100.0	0.4	0.4	1.0	4.0	17.7	40.1	28.1	7.2	1.2
25-29 years	100.0	0.4	0.4	0.9	3.7	16.6	38.5	29.4	8.5	1.7
30-34 years	100.0	0.4	0.4	1.0	3.8	15.9	36.6	29.9	9.7	2.3
35-39 years	100.0	0.4	0.5	1.1	4.1	15.2	35.0	30.1	10.6	2.8
40-44 years	100.0	0.4	0.6	1.3	4.6	15.2	33.5	29.5	11.6	3.4
45 years and over	100.0	0.6	0.7	1.7	5.3	14.2	33.9	28.9	11.4	3.3
<u>All other</u>										
All ages	100.0	0.9	1.0	2.1	7.7	25.2	37.8	19.4	4.7	1.3
Under 15 years	100.0	1.9	2.3	2.9	11.2	33.0	35.7	10.9	1.6	0.5
15-19 years	100.0	1.1	1.4	2.8	9.9	29.9	37.6	14.4	2.5	0.5
20-24 years	100.0	0.9	1.0	2.0	7.7	26.6	39.2	18.2	3.8	0.8
25-29 years	100.0	0.8	0.9	1.7	6.7	23.6	38.5	21.2	5.3	1.3
30-34 years	100.0	0.9	0.9	1.9	6.7	21.6	36.6	22.9	6.6	2.0
35-39 years	100.0	0.7	0.8	1.9	6.6	20.7	34.8	23.9	7.6	2.9
40-44 years	100.0	0.5	0.8	1.9	6.7	20.2	32.6	24.7	8.8	3.8
45 years and over	100.0	0.4	1.3	2.1	8.5	19.1	30.9	23.8	9.5	4.3

Table G. Percentage distribution of live births, by birth weight, color, age of mother, and plurality—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
PLURAL BIRTHS										
<u>Total</u>		Percentage distribution								
All ages	100.0	4.9	5.6	14.0	29.4	29.4	13.8	2.5	0.3	0.0
Under 15 years	100.0	26.7	6.7	25.0	35.0	6.7	-	-	-	-
15-19 years	100.0	10.0	9.4	20.0	30.3	21.4	7.5	1.2	0.1	0.1
20-24 years	100.0	5.8	6.4	15.2	29.7	28.9	11.9	1.9	0.2	0.0
25-29 years	100.0	4.0	5.0	13.1	29.2	30.7	15.1	2.7	0.2	0.1
30-34 years	100.0	3.8	4.7	12.1	29.3	31.0	15.7	3.0	0.4	0.0
35-39 years	100.0	3.6	4.2	12.6	28.4	30.7	16.6	3.5	0.3	0.1
40-44 years	100.0	4.0	4.3	13.4	29.5	30.0	14.8	3.3	0.7	-
45 years and over	100.0	2.9	5.9	14.7	39.7	25.0	8.8	2.9	-	-
<u>White</u>										
All ages	100.0	4.5	5.1	13.3	29.1	30.3	14.6	2.7	0.3	0.0
Under 15 years	100.0	25.0	8.3	16.7	33.3	16.7	-	-	-	-
15-19 years	100.0	9.3	9.5	19.4	29.8	21.9	8.5	1.4	0.1	0.1
20-24 years	100.0	5.4	5.8	14.5	29.5	29.9	12.7	2.0	0.2	0.0
25-29 years	100.0	3.7	4.5	12.4	29.0	31.5	15.8	2.9	0.2	0.1
30-34 years	100.0	3.4	4.3	11.4	29.1	31.5	16.4	3.2	0.5	0.0
35-39 years	100.0	3.4	3.8	12.1	27.6	31.8	17.0	3.8	0.3	0.1
40-44 years	100.0	3.6	4.4	13.6	29.6	30.6	14.7	2.9	0.8	-
45 years and over	100.0	-	8.7	21.7	32.6	28.3	4.3	4.3	-	-
<u>All other</u>										
All ages	100.0	6.5	7.3	16.7	30.6	25.9	10.8	1.9	0.2	0.0
Under 15 years	100.0	27.8	5.6	30.6	36.1	-	-	-	-	-
15-19 years	100.0	12.0	9.1	21.6	31.8	20.0	4.7	0.7	0.1	-
20-24 years	100.0	7.3	8.9	18.1	30.8	24.7	8.5	1.5	0.2	0.0
25-29 years	100.0	5.2	7.1	16.2	30.1	27.3	12.0	2.0	0.1	-
30-34 years	100.0	5.4	6.1	14.7	29.8	28.9	12.8	2.1	0.1	0.1
35-39 years	100.0	4.0	5.8	14.7	31.3	26.3	14.8	2.7	0.5	-
40-44 years	100.0	5.8	3.9	12.6	29.2	27.3	15.5	5.3	0.5	-
45 years and over	100.0	9.1	-	-	54.5	18.2	18.2	-	-	-

Table H. Number of infant deaths and live births, infant mortality rates, and ratios of infant mortality rates, by birth weight and age of mother

Birth weight	Age of mother						Ratio of infant mortality rates
	Under 20, and 40 and over	20-39	Under 20, and 40 and over	20-39	Under 20, and 40 and over	20-39	
	Number of infant deaths		Number of live births		Infant mortality rates per 100,000 live births		
1,000 grams or less	4,498	17,861	5,008	19,315	89,816.3	92,472.2	0.97
1,001-1,500 grams	3,587	11,638	6,272	21,484	57,190.7	54,170.5	1.06
1,501-2,000 grams	2,902	9,887	13,377	48,528	21,694.0	20,373.8	1.06
2,001-2,500 grams	2,774	9,935	43,448	173,988	6,384.6	5,710.2	1.12
2,501-3,000 grams	3,213	11,737	142,977	644,060	2,247.2	1,822.3	1.23
3,001-3,501 grams	3,389	13,011	266,049	1,350,494	1,273.8	963.4	1.32
3,501-4,000 grams	1,712	7,371	165,074	973,969	1,037.1	756.8	1.37
4,001-4,500 grams	459	2,188	40,703	277,110	1,127.7	789.6	1.43
4,501 grams or more	120	756	7,584	58,410	1,582.3	1,294.3	1.22

distributions of birth weight and age of mother have been combined.

An infant born to a mother under 20 years of age had, with one exception, a greater probability of dying during the postneonatal period at every birth weight than an infant born to a mother of any other age. The exception was in the category 1,500 grams or less, where infants born to mothers aged 35-39 had a slightly higher probability. Interestingly, infants whose birth weights were 1,500 grams or less had the best chance of surviving the postneonatal period if their mothers were 40 years of age and over. Over the entire range of birth weights, the best chance of surviving was afforded those infants whose mothers were 25-39 years old. In general, the youngest (under 20 years) and the oldest (40 years and over) mothers had the highest probability of bearing an infant that would succumb during the postneonatal period.

The shape of the curve of the probabilities of dying during this period by age of mother was not affected by birth weight. It was generally U-shaped, being highest when the age of mother was under 20 years and 40 years and over and lowest for the intermediate ages. However, birth weight did have a pronounced effect on the level of the curve: there was a steady decline in the probabilities of dying in every age of mother

category as birth weight increased throughout the entire range of birth weights.

An infant's chance of dying during the first 28 days of life fell dramatically as his birth weight increased. His chance of surviving the postneonatal period also improved with increasing birth weight, but not nearly as much.

Infants of low birth weight, whether born in single or plural deliveries, were more likely to die during the first 28 days of life than infants of higher birth weight. (See figures 6 and 7.) The neonatal mortality rate for infants born in single deliveries was substantially higher than the corresponding probability of dying during the postneonatal period for all birth weights of 3,000 grams or less. Above 3,000 grams the reverse was true. Among plural births, essentially the same pattern was observed except that the curves crossed at 2,500 grams instead of 3,000. Of course the postneonatal period is 12 times as long as the neonatal period; this should be considered in interpreting the data.

Within the neonatal period, the rates for single births tended to be higher than those for plural births until an infant's birth weight reached 3,001 grams. Thereafter infants born in plural deliveries had the higher rates. The only exception to this was observed in the birth weight category 1,000 grams or less. A different pattern

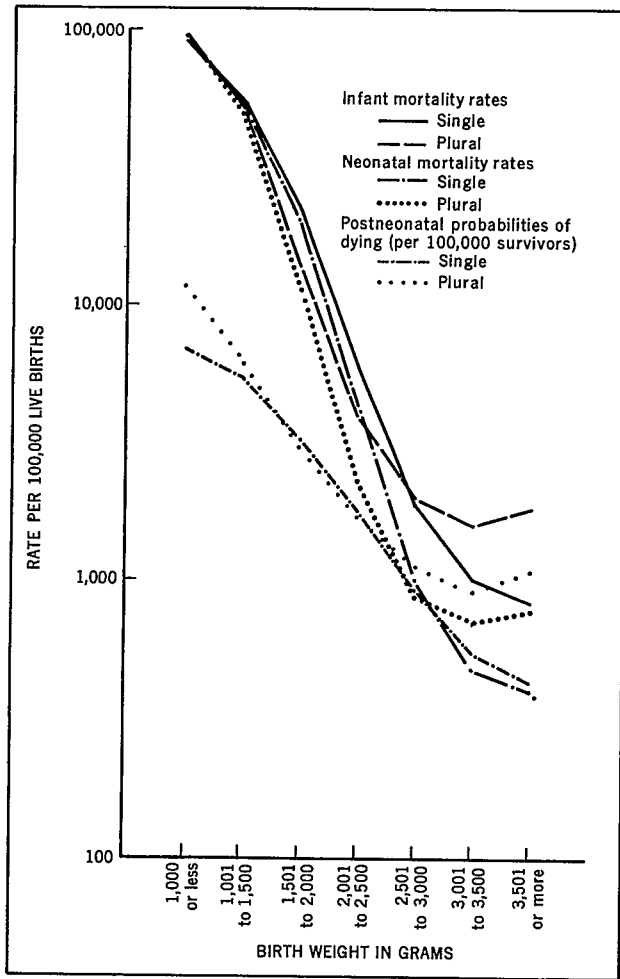


Figure 6. Infant and neonatal mortality and postneonatal probabilities of dying, by birth weight and plurality.

was seen in the postneonatal period. Here infants born in plural deliveries had a higher probability of dying than their counterparts who were born singly in all birth weight categories except 1,501-2,000 and 2,001-2,500 grams. Furthermore, for both periods the discrepancy between the probabilities widened rapidly with increasing birth weight beyond 3,000 grams.

The probabilities of dying within four different age-at-death categories were considered by color and birth weight. (See figure 8.) These were the categories under 1 day, 1-6 days, 7-27 days, and 28 days-11 months. Here again the intervals were of unequal length, and this should be considered when interpreting the findings. For both the white population and the remainder of the population, there was little difference

between the probabilities of dying under 1 day and 1-6 days within any birth weight group. The curve of the probabilities of dying between 7 and 27 days had the same shape as the curves for under 1 day and 1-6 days, but it was located at a somewhat lower level throughout the range of birth weights. This difference was greater among white than among all other infants. Finally, for white infants, the curve of the probabilities of dying between 28 days and 11 months, while starting at a somewhat lower level than the other curves for very light infants, declined much less steeply with increasing birth weight. This resulted in the postneonatal period having the highest probabilities of dying in those birth weight intervals which include the vast majority of births—between 2,501 and 4,500 grams. The foregoing was also true of infants other than white except that the range of birth weights in which the postneonatal probabilities exceeded all others was even wider, including the category 2,001-2,500 grams.

The same categories for age at death were used in the investigation of the joint effect of plurality and birth weight on the probabilities of dying. However, because of the small number of infants over 4,000 grams born in plural deliveries, data for this group terminate either at 4,000 or 4,500 grams. Infants born in both single and plural deliveries experienced relatively little difference in their probabilities of dying under 1 day and from 1 to 6 days within any birth weight group. However, at 7-27 days the probabilities were lower in every birth weight group. The differences tended to be greater for infants born in single deliveries than for those born in plural ones. Both of these sets of infants had a greater chance of dying during the postneonatal period than at any other time during the first year of life if they were full-term babies weighing 2,501 grams or more at birth. Infants weighing between 1,001 and 3,000 grams at birth had a better chance of surviving the first week of life if they were part of a plural delivery than if they were born singly. In addition, the chances of surviving from 7-27 days were greater for infants weighing between 1,001 and 2,500 grams at birth if they were part of a plural delivery. During the postneonatal period this phenomenon was found only among infants weighing between 1,501 and 2,500

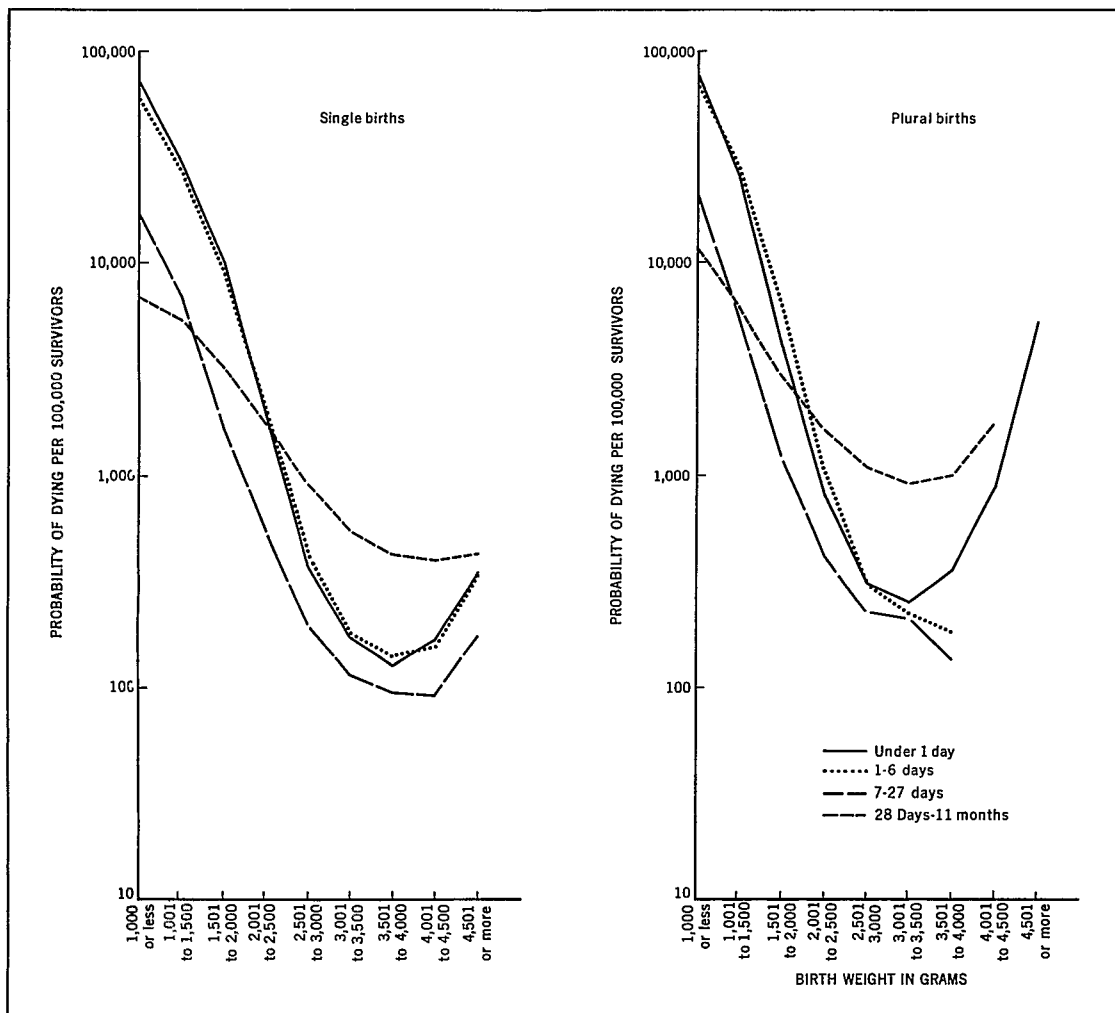


Figure 7. Probabilities of dying, by birth weight, age at death, and plurality of birth.

grams. At all other birth weights an infant had a better chance of surviving any given time interval in the first year of life if he was born singly rather than as part of a plural birth.

Birth Weight, Period of Gestation, Color, and Age at Death

Characteristics of live births.—In the gestational intervals shown in table J, there is considerable dispersion of births by weight. Many children who would be considered premature according to gestational age weighed over 2,500 grams; and, conversely, many of the low birth weight infants were reported to have been born at or near term. For example, about one-third of the infants born after gestational periods of

32-35 weeks weighed over 2,500 grams. This was true regardless of color. Although the proportion of births at gestations of 40 weeks and over that weighed 2,500 grams or less was small (3.0 percent), this group represented 28 percent of the immature births. Similarly, the gestational period of 37-39 weeks represented 18 percent of the immature births, but only 9.4 percent of the births in this group were of low birth weight. Thus births with gestations of 37 weeks or more contributed nearly half of the low birth weight infants.

Although a wide range of birth weights is represented in each gestational age group, the median weights by gestation follow a consistent pattern. The medians for gestation groups below 36 weeks are all less than 2,501 grams. For

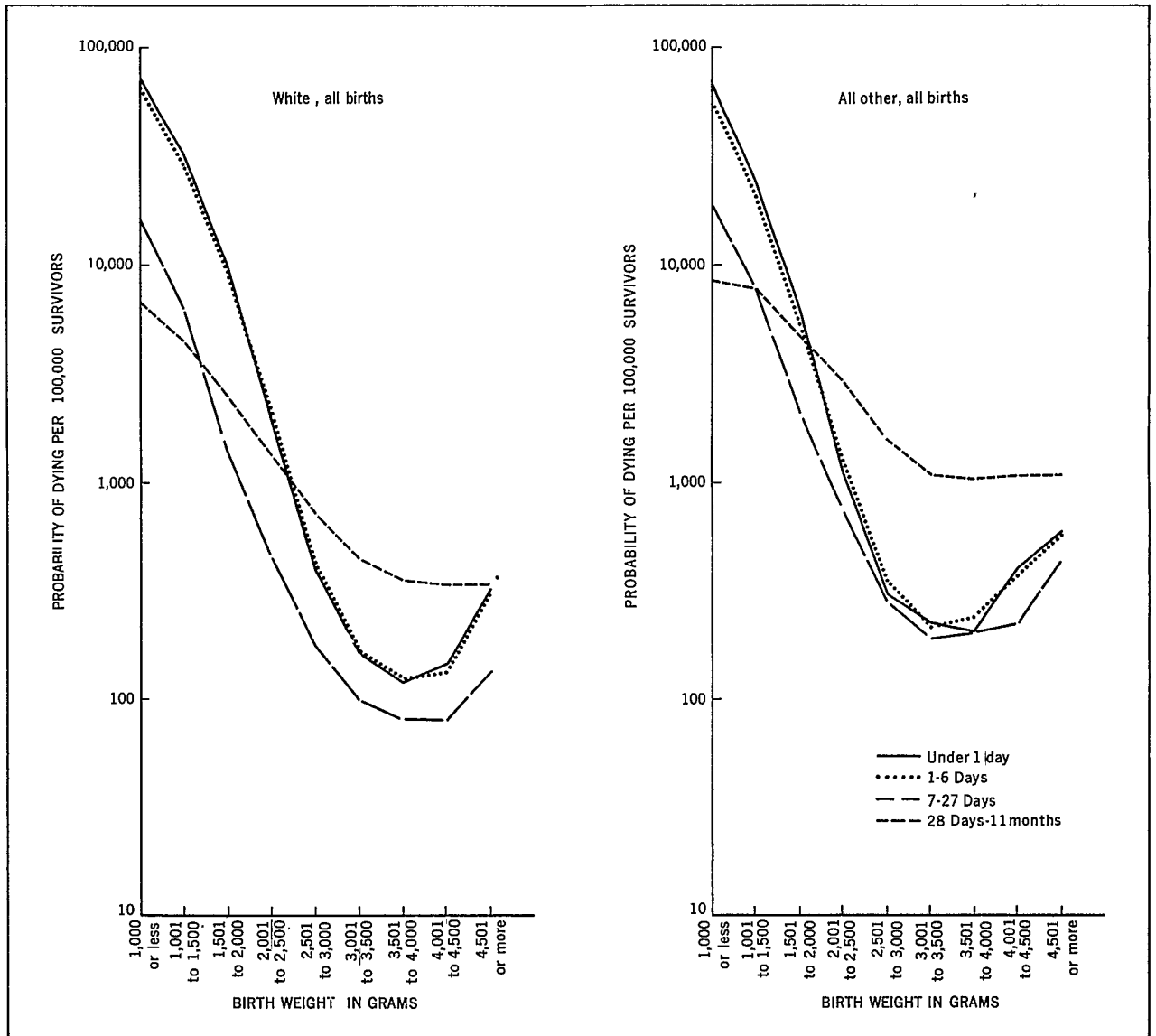


Figure 8. Probabilities of dying, by birth weight, age at death, and color.

infants who had at least 36 weeks of gestation, the median birth weight was well above 2,500 grams (table K).

At gestational ages through 36 weeks, white infants weighed slightly less at birth than infants of other races. However, when the gestational period was 37 weeks or more, the reverse was true. At these gestational ages white infants weighed slightly more than infants of all other races combined.

Analysis of mortality experience.—Infant mortality not only varied greatly by birth weight

and by length of gestation but also varied considerably by birth weight within any given length of gestation category and to a lesser extent by period of gestation within a given birth weight group. For example, for infants who had a gestational period of 36 weeks, the infant mortality rate varied from a low of 1,527.8 per 100,000 live births for those infants weighing between 3,501 and 4,000 grams at birth to a high of 74,820.1 for infants whose birth weight was 1,000 grams or less. Thus the highest rate was about 4,800 percent larger than

Table J. Percentage distribution of live births, by color, birth weight, and period of gestation

Color and birth weight	Total	Period of gestation							
		Under 20 weeks	20-27 weeks	28-31 weeks	32-35 weeks	36 weeks	37-39 weeks	40 weeks and over	Not stated
White		Percentage distribution							
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1,000 grams or less	0.5	72.4	67.6	10.6	0.7	0.1	0.0	0.0	0.7
1,001-1,500 grams	0.6	3.2	22.6	34.8	5.9	0.7	0.1	0.0	0.7
1,501-2,000 grams	1.3	1.9	5.3	32.5	24.6	5.6	0.9	0.2	1.5
2,001-2,500 grams	4.5	1.3	1.5	12.5	35.7	23.2	7.7	2.2	5.0
2,501-3,000 grams	17.2	4.6	1.0	4.4	17.9	28.0	26.6	15.0	18.2
3,001-3,500 grams	38.1	8.3	1.2	3.4	10.3	24.0	40.1	39.6	38.1
3,501-4,000 grams	28.2	6.5	0.6	1.5	3.9	13.6	19.8	31.7	26.7
4,001-4,500 grams	8.0	0.9	0.1	0.4	0.8	3.8	4.1	9.3	7.6
4,501 grams or more	1.6	0.7	0.0	0.0	0.2	1.0	0.7	1.9	1.5
All other		Percentage distribution							
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1,000 grams or less	1.0	72.3	62.8	10.7	1.2	0.2	0.0	0.0	2.3
1,001-1,500 grams	1.2	6.0	21.7	31.8	6.7	1.0	0.2	0.1	1.9
1,501-2,000 grams	2.5	1.7	7.1	31.5	25.0	6.4	1.6	0.5	3.3
2,001-2,500 grams	8.3	2.0	2.9	13.8	31.5	23.6	11.4	5.4	8.9
2,501-3,000 grams	25.3	6.0	2.9	6.4	17.8	24.1	33.2	25.0	24.1
3,001-3,500 grams	37.1	7.8	1.9	4.1	12.3	25.0	37.1	40.5	35.6
3,501-4,000 grams	18.9	3.5	0.7	1.3	4.4	13.6	13.5	21.7	18.7
4,001-4,500 grams	4.6	0.3	-	0.3	0.8	4.5	2.4	5.4	4.2
4,501 grams or more	1.2	0.3	0.1	0.1	0.2	1.8	0.5	1.4	1.1

Table K. Median weights of live births, by period of gestation and color

Color	Total	Period of gestation							
		Under 20 weeks	20-27 weeks	28-31 weeks	32-35 weeks	36 weeks	37-39 weeks	40 weeks and over	Not stated
Total		Median weight in grams							
Total	3,310	(¹)	(¹)	1,590	2,270	2,870	3,170	3,380	3,300
White	3,340	(¹)	(¹)	1,570	2,260	2,870	3,180	3,410	3,310
All other	3,160	(¹)	(¹)	1,620	2,270	2,890	3,050	3,240	3,130

¹ Less than 1,000 grams.

the lowest. On the other hand, infants whose birth weight was between 2,501 and 3,000 grams (the birth weight group most typical of infants whose gestational periods were 36 weeks) experienced infant mortality rates that varied from a low of 1,593.5 for those infants whose length of gestation was 37-39 weeks to a high of 6,888.5 for infants whose gestational period was 28-31 weeks. In this case the highest rate was only about 330 percent greater than the lowest. Infants weighing 1,000 grams or less had the least variation in their rates by length of gestation, 57 percent, while those weighing 2,001-2,500 grams at birth had the most variation, 379 percent. When length of gestation was held constant, the extremes were 4,797 percent and 8,655 percent for infants whose lengths of gestation were 36 weeks and 40 weeks or more, respectively. In the foregoing comparisons, differences were not considered when the number of deaths in a given cell of table 17 was less than 20. The infant mortality rate for infants whose period of gestation was not stated appeared to be nearer the rates for infants whose lengths of gestation were under 36 weeks than to any other gestational interval when their birth weights were 2,500 grams or less. Above 2,500 grams, the rates for this group were intermediate between those of 36 weeks and 37-39 weeks for all birth weight groups.

The most favorable length of gestation for an infant was 37-39 weeks if he weighed 4,000 grams or less at birth. For infants weighing more than 4,000 grams, the chances of survival were best if the gestational period was at least 40 weeks.

As a general rule, mortality rates in each length of gestation category dropped as birth weight increased, from 1,000 grams or less to 3,501-4,000 grams. Thereafter the rates rose with increasing birth weight. However, the number of deaths of infants weighing more than 4,000 grams in each of the lowest four categories of length of gestation was too small to give reliable rates.

The neonatal mortality rate for all periods of gestation fell sharply as birth weight increased, reaching a low of 364.3 per 100,000 live births in the birth weight group 3,501-4,000 grams. Further increases in birth weight raised the rate markedly, reaching a rate of 874.3 for infants weighing 4,501 grams or more at birth. The

curve of the neonatal mortality rates by birth weight had the same shape for all periods of gestation for which a sufficient number of deaths were available to calculate meaningful rates.

The postneonatal probabilities of dying also decreased with increasing birth weight, reaching the lowest values for infants whose birth weights were between 3,501 and 4,500 grams. However, these probabilities started at a much lower level than the neonatal mortality rates for infants weighing 1,000 grams or less and declined less sharply with increasing birth weight. As a result, between 2,501 and 4,500 grams an infant had approximately equal chances of surviving the neonatal and postneonatal periods. At all other birth weights, the chances were much better of surviving the postneonatal period despite the fact that this period is approximately 12 times the length of the neonatal period.

For infants whose birth weights were not stated, both the neonatal mortality rates and the postneonatal probabilities were somewhat higher at all birth weights than the corresponding figures for all periods of gestation. Of all the periods of gestation under discussion, the rates for the gestation-not-stated group most closely approximated those for infants with 36 weeks of gestation, being somewhat higher for birth weights of 2,500 grams or less and somewhat lower for all other birth weights. This was true of both neonatal rates and postneonatal probabilities.

When birth weight, length of gestation, and color were considered simultaneously in both the neonatal and postneonatal periods, certain patterns became clear. During the neonatal period, the rates for white infants exceeded those of the remainder of the population at all birth weights up to 3,000 grams, at which point the rates for whites became lower and remained lower for all subsequent birth weight groups. This was generally true regardless of the length of gestation, but it was less pronounced for infants with gestational periods of less than 36 weeks. During the postneonatal period when all periods of gestation were combined, the probability of a white infant dying was less than the corresponding probability for infants of other races for all birth weight groups. This also, with very few exceptions, was true for each period of gestation.

The general level of the neonatal and postneo-

natal rates for infants whose length of gestation was not stated differed substantially by color. For whites weighing 2,500 grams or less at birth, the neonatal mortality rates were somewhat above those for infants whose length of gestation was stated to have been 36 weeks. The same thing was true of the postneonatal probabilities at all birth weights up to 3,500 grams. Thereafter the reverse was true in both periods. For infants in the remainder of the population, however, both the neonatal rates and the postneonatal probabilities among infants with length of gestation not stated were higher in every birth weight group than the corresponding rates in every category where the length of gestation was known. There were a few scattered exceptions to this rule, mainly in the groups that had shorter periods of gestation.

Whether an infant is fully developed or not may be measured by his birth weight or his length of gestation. The common practice has been to use one or the other of these as an index of maturity—each with its own critical value that separates mature infants from immature (low birth weight) or premature (short gestation) ones. When considering length of gestation, a dividing line of 37 weeks between the first day of the last normal menstrual period and the date of termination of pregnancy is often used. When the birth weight index is used, the value of 2,500 grams is taken as the criterion that separates the mature from the immature. (In this report the term “high risk” will be used in discussing infants who are both immature and premature.)

It is noteworthy that when the two indexes are applied to the same group of births, they designate as immature and premature two groups that differ widely in their composition. For example, of the 438,961 infants in the 1960 cohort of live births who were either premature or immature, only 157,109 were both, that is, high risk infants. The inadequacy of a single index to investigate the phenomenon of prematurity or immaturity has been recognized by many investigators.¹⁰⁻¹⁷ Attempts have been made to use more than one of the indexes: birth weight, length at birth, head circumference, length of gestation, and others. When two indexes were used, attention was usually focused on the group of infants fulfilling both criteria. Thus if length of gestation and birth weight were

the two indexes, the group which was singled out for special attention was that of infants who were of less than 37 weeks gestation and who weighed 2,500 grams or less at birth.

The requirement that both criteria be fulfilled is useful because it focuses attention on the most vulnerable group of infants. It would appear, however, that for a more comprehensive view of the phenomenon it is desirable to investigate also those who weigh more than 2,500 grams but who are of less than 37 weeks gestation and those whose gestation is 37 weeks or more but whose weight at birth is 2,500 grams or less. Whether this additional subdivision of the births serves a useful purpose depends in the final analysis on whether the different groups are distinguishable in their ability to adapt to the extrauterine environment. Although the most critical measure for the latter is probably the neonatal mortality rate, this report will also examine the postneonatal and infant mortality rates.

In this section, live births have been classified according to the two main criteria: length of gestation and birth weight. The respective points of separation were the 37th week and 2,500 grams, which conform to usual and accepted practices.^{18,19} Live births were divided into the four groups devised by Yerushalmy²⁰ and are shown in table L. In this arrangement, groups I and II consist of infants who would be considered immature on the basis of low birth weight. Groups I and III are comprised of infants who would be considered premature if the length of gestation were used as the only criterion.

As shown in table M, infants in group I had a very high mortality during the first year of life; nearly one-third died during this period. The vast majority of these infants died during the neonatal period. While infants in group II also had high mortality during the first year of life, their level of mortality was much less than that

Table L. Classification of live births, by weight and period of gestation

Group	Birth weight	Gestation
Group I	2,500 grams or less	Under 37 weeks
Group II	2,500 grams or less	37 weeks and over
Group III	2,501 grams or more	Under 37 weeks
Group IV	2,501 grams or more	37 weeks and over

Table M. Infant, neonatal, and postneonatal mortality rates, by color and four groups of birth weight and period of gestation

Group	Total	White	All other
Infant mortality per 100,000 live births			
Group I	30,909.1	31,507.9	29,178.7
Group II	5,988.4	5,730.1	6,704.8
Group III	2,604.5	2,618.9	2,561.4
Group IV	1,048.2	901.9	1,910.5
Groups I, II	18,620.2	18,865.6	17,925.3
Groups I, III	18,146.8	18,416.9	17,353.7
Neonatal mortality per 100,000 live births			
Group I	29,055.0	30,060.8	26,148.2
Group II	4,176.8	4,341.4	3,720.3
Group III	1,683.6	1,875.5	1,108.8
Group IV	494.6	455.8	723.8
Groups I, II	16,787.0	17,447.2	14,917.7
Groups I, III	16,713.5	17,288.7	15,024.2
Postneonatal mortality per 100,000 live births			
Group I	1,854.1	1,447.1	3,030.5
Group II	1,811.6	1,388.7	2,984.6
Group III	920.9	743.4	1,452.6
Group IV	553.6	446.2	1,186.7
Groups I, II	1,833.2	1,418.4	3,007.5
Groups I, III	1,433.3	1,128.2	2,329.5

experienced by infants in group I. Even though the infant mortality rate for group III was 2½ times that of group IV, it was less than half that of group II and less than a tenth of the rate experienced by infants in group I.

The three groups of infants that could be expected to be at greater risk of dying were distinguishable in their ability to survive the first year of life, the neonatal period, and the postneonatal period. Moreover, there were marked differences between the mortality rates by color in each of the three periods. In the neonatal period, the rates for Negroes and other races were about 14 percent below the rates for whites in groups I and II and about 40 percent lower in group III. In group IV, however, they

had a rate about 60 percent higher than the rate for white infants. The rates for both premature and immature infants were about 14 percent lower in the population of infants other than white than in the population of white infants.

The advantage of lower mortality enjoyed by infants of Negro and other races in groups I-III did not continue beyond the first 28 days of life. In groups I-III the postneonatal rates for all other races were between 95 and 115 percent higher than the corresponding rates for white infants. In group IV the excess mortality was even greater, amounting to 166 percent. For infants other than white, the rates for both premature and immature infants were slightly more than double the corresponding rates for white infants.

When the entire first year of life was considered, a comparison of the rates by color was less clear. Infants in groups I and III had slightly higher rates if they were white than if they belonged to the remainder of the population, while for infants in group II the reverse was true. For infants in group IV, however, those who were not white experienced a rate that was more than double the one observed for white infants. Immature or premature white infants had slightly less chance of surviving the first year of life than their counterparts in the remainder of the population.

In each of the three periods under discussion, the rates were highest in group I and declined in each successive group, reaching their lowest point in group IV. This was true for both white infants and for infants in the remainder of the population.

It was of interest to note that the neonatal rates for infants other than white were lower than those for whites in each of the three subgroups of high risk infants, including group III, which was composed of infants who weighed more than 2,500 grams and who were of less than 37 weeks of gestation. It has previously been observed that the neonatal mortality rate among infants of low birth weight was lower for Negroes than for whites in each subdivision of the births by weight groups.²⁰ This was often taken as a reflection of the fact that Negro births generally are of lower birth weight than white births and, therefore, the Negro infant of less than 2,500 grams may be more mature than

the small white infant. This explanation cannot apply to group III infants who weighed more than 2,500 grams at birth and were of less than 37 weeks gestation. The more favorable rates for the Negro infants in this group were therefore not explainable on the basis of the overall lower birth weight among Negroes. The rate among mature infants (group IV) was considerably higher for infants other than white than for whites. Since the population other than white is composed mainly of Negroes, the findings in this report tend to corroborate those studies.

Table N presents the ratio of the rates for the

different subgroups to the rates for fully developed infants (group IV). Compared with the latter, each of the groups of high risk infants experienced significantly greater chances of dying during the first year of life as well as during each of the two time periods within the first year. The greatest differences were in the neonatal period, but the excess mortality persisted through the postneonatal period. The differences were smaller but in the same direction as those observed during the neonatal period.

Table N. Ratio of infant, neonatal, and postneonatal mortality for the three groups of high risk infants to the corresponding mortality rates of mature infants (group IV)

Group	Infant mortality			Neonatal mortality			Postneonatal mortality		
	Total	White	All other	Total	White	All other	Total	White	All other
Group I	29.5	34.9	15.3	58.7	66.0	36.1	3.3	3.2	2.6
Group II	5.7	6.4	3.5	8.4	9.5	5.1	3.3	3.1	2.5
Group III	2.5	2.9	1.3	3.4	4.1	1.5	1.7	1.7	1.2
Group IV	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

SUMMARY

This report presents data on the mortality experience in the first year of life of infants born in 1960. Variables that have been considered include birth weight, period of gestation, age at death, color, sex, plurality, and age of mother.

The infant mortality rate for the 1960 live-birth cohort was 2,513.9 per 100,000 live births. The rate varied greatly by birth weight, being highest for the lightest babies and lowest for infants weighing between 3,001 and 4,500 grams at birth. The infant mortality rate also varied by color and sex, but the variation was much less than that observed among the various weight groups. Since birth weight so greatly affected infant mortality, rates by color and sex have been analyzed after adjusting for birth weight. Also since the mortality of very light infants during the first week of life was extremely high, a second set of rates (termed "probabilities of

dying") was calculated based on the number of survivors rather than on the number of live births.

Since the birth weight and the length of gestation of an infant are highly correlated, it was not surprising to find that the latter variable also greatly affected an infant's chances of surviving the first year of life. The infant mortality rates were highest for infants whose periods of gestation were less than 28 weeks and dropped regularly with increasing time in utero, reaching a low for those whose length of gestation was at least 40 weeks. Mortality rates were also analyzed by age at death and period of gestation, but care must be taken in interpreting these findings since the various time intervals were of unequal length.

Infant mortality rates by birth weight and age of mother showed that mothers under 20 years of age and 40 and over had a greater chance of losing a child in the first year of life at all birth weights above 1,000 grams. Furthermore, this

greater risk increased as birth weight increased, reaching its maximum for infants weighing 4,001-4,500 grams at birth. In this weight group the excess mortality amounted to 43 percent (table H). Only when the infants weighed 1,000 grams or less at birth was the mortality rate of infants of these mothers slightly lower than that of other infants.

Within the neonatal period, the infant mortality rates for single births tended to be higher than those for plural births until an infant's birth weight reached 3,001 grams. Thereafter infants born in plural deliveries had the higher rates. During the postneonatal period, however, infants born in plural deliveries had a higher probability of dying than their counterparts who were born singly at all birth weights except 1,501-2,000 and 2,001-2,500 grams.

Infant mortality not only varied greatly by birth weight and by length of gestation but also varied considerably by birth weight within any

given length of gestation category and to a lesser extent by period of gestation within a given birth weight group. Neonatal mortality rates and postneonatal probabilities of dying both exhibited patterns similar to the one for infant mortality. The data presented by birth weight and length of gestation confirmed the findings of Yerushalmy²⁰ that the division of live births into subgroups which were categorized by both variables would be useful in the study of infant loss. Infants fulfilling both criteria (less than 37 weeks of gestation and a birth weight of less than 2,500 grams) were the most vulnerable; but those who met one and not the other also suffered greater mortality. Even the least vulnerable of these, those weighing more than 2,500 grams at birth but with gestational periods of less than 37 weeks, were exposed to a risk of early death that was 2½ times greater than the risk in the group that fulfilled neither of the criteria.

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Table 1. Deaths under 1 year of age, by birth weight, color, sex, and age at death: United States, 1960 live-birth cohort

Color, sex, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
TOTAL		Number of deaths under 1 year of age								
<u>Both sexes</u>										
Under 1 year of age	107,038	22,359	15,225	12,789	12,709	14,950	16,400	9,083	2,647	876
Under 28 days	78,330	22,202	14,474	11,179	9,010	7,817	7,581	4,149	1,341	577
Under 7 days	70,031	21,748	13,507	10,349	7,899	6,249	5,714	3,059	1,042	464
7-13 days	4,091	339	640	490	505	670	801	453	140	53
14-20 days	2,387	78	211	209	328	506	569	364	86	36
21-27 days	1,821	37	116	131	278	392	497	273	73	24
28 days-11 months	28,708	157	751	1,610	3,699	7,133	8,819	4,934	1,306	299
28-59 days	6,933	54	233	430	986	1,803	2,013	1,043	293	78
2-11 months	21,775	103	518	1,180	2,713	5,330	6,806	3,891	1,013	221
<u>Male</u>										
Under 1 year of age	61,651	11,838	8,885	7,713	7,328	8,263	9,536	5,724	1,763	601
Under 28 days	45,442	11,766	8,489	6,860	5,403	4,501	4,504	2,642	891	386
Under 7 days	40,767	11,584	7,966	6,410	4,844	3,633	3,398	1,942	682	308
7-13 days	2,265	130	350	270	256	366	479	287	91	36
14-20 days	1,373	39	114	105	169	278	343	237	64	24
21-27 days	1,037	13	59	75	134	224	284	176	54	18
28 days-11 months	16,209	72	396	853	1,925	3,762	5,032	3,082	872	215
28-59 days	3,984	22	117	231	529	977	1,190	664	198	56
2-11 months	12,225	50	279	622	1,396	2,785	3,842	2,418	674	159
<u>Female</u>										
Under 1 year of age	45,387	10,521	6,340	5,076	5,381	6,687	6,864	3,359	884	275
Under 28 days	32,888	10,436	5,985	4,319	3,607	3,316	3,077	1,507	450	191
Under 7 days	29,264	10,164	5,541	3,939	3,055	2,616	2,316	1,117	360	156
7-13 days	1,826	209	290	220	249	340	322	166	49	17
14-20 days	1,014	39	97	104	159	228	226	127	22	12
21-27 days	784	24	57	56	144	168	213	97	19	6
28 days-11 months	12,499	85	355	757	1,774	3,371	3,787	1,852	434	84
28-59 days	2,949	32	116	199	457	826	823	379	95	22
2-11 months	9,550	53	239	558	1,317	2,545	2,964	1,473	339	62

Table 1. Deaths under 1 year of age, by birth weight, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
WHITE										
<u>Both sexes</u>										
Number of deaths under 1 year of age										
Under 1 year of age	79,819	16,256	11,536	10,001	9,486	10,756	12,154	6,966	2,015	649
Under 28 days	60,773	16,166	11,124	9,064	7,341	6,253	6,016	3,328	1,036	445
Under 7 days	55,007	15,900	10,513	8,534	6,623	5,150	4,620	2,496	804	367
7-13 days	2,980	209	431	337	361	517	636	347	107	35
14-20 days	1,594	39	119	119	193	333	417	280	69	25
21-27 days	1,192	18	61	74	164	253	343	205	56	18
28 days-11 months	19,046	90	412	937	2,145	4,503	6,138	3,638	979	204
28-59 days	4,628	25	144	267	551	1,168	1,412	785	220	56
2-11 months	14,418	65	268	670	1,594	3,335	4,726	2,853	759	148
<u>Male</u>										
Under 1 year of age	46,386	8,693	6,795	6,088	5,581	5,958	7,048	4,417	1,354	452
Under 28 days	35,537	8,651	6,567	5,574	4,459	3,600	3,563	2,127	692	304
Under 7 days	32,225	8,537	6,231	5,276	4,083	2,997	2,741	1,585	528	247
7-13 days	1,686	88	238	195	192	282	377	221	68	25
14-20 days	943	20	69	61	101	180	252	188	53	19
21-27 days	683	6	29	42	83	141	193	133	43	13
28 days-11 months	10,849	42	228	514	1,122	2,358	3,485	2,290	662	148
28-59 days	2,705	11	75	149	302	642	828	509	149	40
2-11 months	8,144	31	153	365	820	1,716	2,657	1,781	513	108
<u>Female</u>										
Under 1 year of age	33,433	7,563	4,741	3,913	3,905	4,798	5,106	2,549	661	197
Under 28 days	25,236	7,515	4,557	3,490	2,882	2,653	2,453	1,201	344	141
Under 7 days	22,782	7,363	4,282	3,258	2,540	2,153	1,879	911	276	120
7-13 days	1,294	121	193	142	169	235	259	126	39	10
14-20 days	651	19	50	58	92	153	165	92	16	6
21-27 days	509	12	32	32	81	112	150	72	13	5
28 days-11 months	8,197	48	184	423	1,023	2,145	2,653	1,348	317	56
28-59 days	1,923	14	69	118	249	526	584	276	71	16
2-11 months	6,274	34	115	305	774	1,619	2,069	1,072	246	40

Table 1. Deaths under 1 year of age, by birth weight, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL OTHER										
<u>Both sexes</u>										
Number of deaths under 1 year of age										
Under 1 year of age	27,219	6,103	3,689	2,788	3,223	4,194	4,246	2,117	632	227
Under 28 days	17,557	6,036	3,350	2,115	1,669	1,564	1,565	821	305	132
Under 7 days	15,024	5,848	2,994	1,815	1,276	1,099	1,094	563	238	97
7-13 days	1,111	130	209	153	144	153	165	106	33	18
14-20 days	793	39	92	90	135	173	152	84	17	11
21-27 days	629	19	55	57	114	139	154	68	17	6
28 days-11 months	9,662	67	339	673	1,554	2,630	2,681	1,296	327	95
28-59 days	2,305	29	89	163	435	635	601	258	73	22
2-11 months	7,357	38	250	510	1,119	1,995	2,080	1,038	254	73
<u>Male</u>										
Under 1 year of age	15,265	3,145	2,090	1,625	1,747	2,305	2,488	1,307	409	149
Under 28 days	9,905	3,115	1,922	1,286	944	901	941	515	199	82
Under 7 days	8,542	3,047	1,735	1,134	761	636	657	357	154	61
7-13 days	579	42	112	75	64	84	102	66	23	11
14-20 days	430	19	45	44	68	98	91	49	11	5
21-27 days	354	7	30	33	51	83	91	43	11	5
28 days-11 months	5,360	30	168	339	803	1,404	1,547	792	210	67
28-59 days	1,279	11	42	82	227	335	362	155	49	16
2-11 months	4,081	19	126	257	576	1,069	1,185	637	161	51
<u>Female</u>										
Under 1 year of age	11,954	2,958	1,599	1,163	1,476	1,889	1,758	810	223	78
Under 28 days	7,652	2,921	1,428	829	725	663	624	306	106	50
Under 7 days	6,482	2,801	1,259	681	515	463	437	206	84	36
7-13 days	532	88	97	78	80	69	63	40	10	7
14-20 days	363	20	47	46	67	75	61	35	6	6
21-27 days	275	12	25	24	63	56	63	25	6	1
28 days-11 months	4,302	37	171	334	751	1,226	1,134	504	117	28
28-59 days	1,026	18	47	81	208	300	239	103	24	6
2-11 months	3,276	19	124	253	543	926	895	401	93	22

Table 2. Infant mortality rates per 100,000 live births, by birth weight, color, sex, and age at death: United States, 1960 live-birth cohort

Color, sex, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
TOTAL										
<u>Both sexes</u>										
Rate per 100,000 live births										
Under 1 year of age	2,513.9	91,925.3	54,853.0	20,659.1	5,844.9	1,899.5	1,014.5	797.4	832.9	1,327.4
Under 28 days	1,839.7	91,279.9	52,147.3	18,053.3	4,143.7	993.2	469.0	364.3	421.9	874.3
Under 7 days	1,644.8	89,413.3	48,663.4	16,717.6	3,632.8	794.0	353.5	268.6	327.9	703.1
7-13 days	96.1	1,393.7	2,305.8	791.5	232.3	85.1	49.6	39.8	44.1	80.3
14-20 days	56.1	320.7	760.2	337.6	150.8	64.3	35.2	32.0	27.1	54.6
21-27 days	42.8	152.1	417.9	211.6	127.9	49.8	30.7	24.0	23.0	36.4
28 days-11 months	674.2	645.5	2,705.7	2,600.8	1,701.2	906.3	545.5	433.2	410.9	453.1
28-59 days	162.8	222.0	839.5	694.6	453.5	229.1	124.5	91.6	92.2	118.2
2-11 months	511.4	423.5	1,866.3	1,906.1	1,247.7	677.2	421.0	341.6	318.7	334.9
<u>Male</u>										
Under 1 year of age	2,828.4	93,529.3	61,301.2	25,440.3	7,464.6	2,402.3	1,205.9	889.6	876.8	1,341.1
Under 28 days	2,084.8	92,960.4	58,569.1	22,626.8	5,503.7	1,308.6	569.5	410.6	443.1	861.3
Under 7 days	1,870.3	91,522.5	54,960.7	21,142.6	4,934.3	1,056.2	429.7	301.8	339.2	687.3
7-13 days	103.9	1,027.1	2,414.8	890.6	260.8	106.4	60.6	44.6	45.3	80.3
14-20 days	63.0	308.1	786.5	346.3	172.2	80.8	43.4	36.8	31.8	53.6
21-27 days	47.6	102.7	407.1	247.4	136.5	65.1	35.9	27.4	26.9	40.2
28 days-11 months	743.6	568.9	2,732.2	2,813.5	1,960.9	1,093.7	636.3	479.0	433.7	479.8
28-59 days	182.8	173.8	807.2	761.8	538.9	284.0	150.5	103.2	98.5	125.0
2-11 months	560.9	395.0	1,924.9	2,051.6	1,422.0	809.7	485.8	375.8	335.2	354.8
<u>Female</u>										
Under 1 year of age	2,184.0	90,185.2	47,805.8	16,069.9	4,511.8	1,509.2	831.3	677.7	757.3	1,248.4
Under 28 days	1,582.6	89,456.5	45,128.9	13,673.3	3,024.3	748.4	372.6	304.1	385.5	901.8
Under 7 days	1,408.2	87,125.0	41,781.0	12,470.3	2,561.5	590.4	280.5	225.4	308.4	736.5
7-13 days	87.9	1,791.5	2,186.7	696.5	208.8	68.6	39.0	33.5	42.0	80.3
14-20 days	48.8	334.3	731.4	329.2	133.3	51.5	27.4	25.6	18.8	56.7
21-27 days	37.7	205.7	429.8	177.3	120.7	37.9	25.8	19.6	16.3	28.3
28 days-11 months	601.5	728.6	2,676.8	2,396.6	1,487.4	760.8	458.6	373.7	371.8	396.6
28-59 days	141.9	274.3	874.7	630.0	383.2	186.4	99.7	76.5	81.4	103.9
2-11 months	459.5	454.3	1,802.1	1,766.5	1,104.3	574.4	359.0	297.2	290.4	292.7

Table 2. Infant mortality rates per 100,000 live births, by birth weight, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
WHITE		Rate per 100,000 live births								
<u>Both sexes</u>										
Under 1 year of age	2,216.7	92,928.6	57,564.9	21,895.5	5,815.0	1,731.8	885.3	686.4	700.4	1,120.7
Under 28 days	1,687.8	92,414.1	55,509.0	19,844.1	4,500.1	1,006.8	438.2	327.9	360.1	768.4
Under 7 days	1,527.7	90,893.5	52,460.1	18,683.8	4,059.9	829.2	336.5	245.9	279.5	633.7
7-13 days	82.8	1,194.8	2,150.7	737.8	221.3	83.2	46.3	34.2	37.2	60.4
14-20 days	44.3	222.9	593.8	260.5	118.3	53.6	30.4	27.6	24.0	43.2
21-27 days	33.1	102.9	304.4	162.0	100.5	40.7	25.0	20.2	19.5	31.1
28 days-11 months	528.9	514.5	2,055.9	2,051.4	1,314.9	725.0	447.1	358.5	340.3	352.3
28-59 days	128.5	142.9	718.6	584.6	337.8	188.1	102.9	77.3	76.5	96.7
2-11 months	400.4	371.6	1,337.3	1,466.9	977.1	537.0	344.2	281.1	263.8	255.6
<u>Male</u>										
Under 1 year of age	2,509.8	94,550.8	63,433.5	26,825.3	7,525.9	2,210.1	1,057.0	771.3	741.5	1,135.3
Under 28 days	1,922.8	94,094.0	61,305.1	24,560.5	6,012.9	1,335.4	534.4	371.4	379.0	763.6
Under 7 days	1,743.6	92,854.0	58,168.4	23,247.4	5,505.9	1,111.7	411.1	276.8	289.2	620.4
7-13 days	91.2	957.1	2,221.8	859.2	258.9	104.6	56.5	38.6	37.2	62.8
14-20 days	51.0	217.5	644.1	268.8	136.2	66.8	37.8	32.8	29.0	47.7
21-27 days	37.0	65.3	270.7	185.1	111.9	52.3	28.9	23.2	23.5	32.7
28 days-11 months	587.0	456.8	2,128.5	2,264.8	1,513.0	847.7	522.7	399.9	362.5	371.7
28-59 days	146.4	119.6	700.1	656.5	407.2	238.1	124.2	88.9	81.6	100.5
2-11 months	440.6	337.2	1,428.3	1,608.3	1,105.8	636.5	398.5	311.0	280.9	271.3
<u>Female</u>										
Under 1 year of age	1,907.7	91,131.5	50,825.5	17,027.1	4,388.9	1,365.0	723.1	576.4	629.1	1,088.6
Under 28 days	1,400.0	90,553.1	48,852.9	15,186.5	3,239.1	754.8	347.4	271.6	327.4	779.1
Under 7 days	1,299.9	88,721.5	45,904.8	14,176.9	2,854.8	612.5	266.1	206.0	262.7	663.1
7-13 days	73.8	1,458.0	2,069.0	617.9	189.9	66.9	36.7	28.5	37.1	55.3
14-20 days	37.1	228.9	536.0	252.4	103.4	43.5	23.4	20.8	15.2	33.2
21-27 days	29.0	144.6	343.1	139.2	91.0	31.9	21.2	16.3	12.4	27.6
28 days-11 months	467.7	578.4	1,972.6	1,840.7	1,149.8	610.2	375.7	304.8	301.7	309.4
28-59 days	109.7	168.7	739.7	513.5	279.9	149.6	82.7	62.4	67.6	88.4
2-11 months	358.0	409.7	1,232.8	1,327.2	869.9	460.6	293.0	242.4	234.1	221.0

Table 2. Infant mortality rates per 100,000 live births, by birth weight, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL OTHER										
<u>Both sexes</u>										
Rate per 100,000 live births										
Under 1 year of age	4,142.3	89,355.8	47,809.7	17,179.1	5,935.0	2,527.3	1,742.4	1,704.9	2,097.4	2,808.0
Under 28 days	2,671.9	88,374.8	43,416.3	13,032.2	3,073.4	942.5	642.2	661.2	1,012.2	1,632.9
Under 7 days	2,286.4	85,622.3	38,802.5	11,183.7	2,349.7	662.3	448.9	453.4	789.8	1,199.9
7-13 days	169.1	1,903.4	2,708.7	942.8	265.2	92.2	67.7	85.4	109.5	222.7
14-20 days	120.7	571.0	1,192.3	554.6	248.6	104.2	62.4	67.7	56.4	136.1
21-27 days	95.7	278.2	712.8	351.2	209.9	83.8	63.2	54.8	56.4	74.2
28 days-11 months	1,470.4	981.0	4,393.5	4,146.9	2,861.6	1,584.8	1,100.2	1,043.7	1,085.2	1,175.2
28-59 days	350.8	424.6	1,153.4	1,004.4	801.0	382.6	246.6	207.8	242.3	272.1
2-11 months	1,119.6	556.4	3,240.0	3,142.5	2,060.6	1,202.2	853.5	836.0	842.9	903.0
<u>Male</u>										
Under 1 year of age	4,604.6	90,817.2	55,261.8	21,317.1	7,275.2	3,099.1	2,005.9	1,847.6	2,213.1	2,979.4
Under 28 days	2,987.8	89,950.9	50,819.7	16,870.0	3,931.2	1,211.4	758.7	728.0	1,076.8	1,639.7
Under 7 days	2,576.6	87,987.3	45,875.2	14,876.0	3,169.1	855.1	529.7	504.7	833.3	1,219.8
7-13 days	174.7	1,212.8	2,961.4	983.9	266.5	112.9	82.2	93.3	124.5	220.0
14-20 days	129.7	548.7	1,189.8	577.2	283.2	131.8	73.4	69.3	59.5	100.0
21-27 days	106.8	202.1	793.2	432.9	212.4	111.6	73.4	60.8	59.5	100.0
28 days-11 months	1,616.8	866.3	4,442.1	4,447.1	3,344.0	1,887.7	1,247.2	1,119.6	1,136.3	1,339.7
28-59 days	385.8	317.6	1,110.5	1,075.7	945.3	450.4	291.9	219.1	265.1	319.9
2-11 months	1,231.0	548.7	3,331.6	3,371.4	2,398.7	1,437.3	955.4	900.5	871.2	1,019.8
<u>Female</u>										
Under 1 year of age	3,671.5	87,852.7	40,645.7	13,513.8	4,872.6	2,062.9	1,469.2	1,516.1	1,913.8	2,530.0
Under 28 days	2,350.2	86,753.8	36,298.9	9,632.8	2,393.4	724.0	521.5	572.7	909.7	1,621.8
Under 7 days	1,990.8	83,189.8	32,003.1	7,913.1	1,700.1	505.6	365.2	385.6	720.9	1,167.7
7-13 days	163.4	2,613.6	2,465.7	906.3	264.1	75.4	52.7	74.9	85.8	227.1
14-20 days	111.5	594.0	1,194.7	534.5	221.2	81.9	51.0	65.5	51.5	194.6
21-27 days	84.5	356.4	635.5	278.9	208.0	61.2	52.7	46.8	51.5	32.4
28 days-11 months	1,321.3	1,098.9	4,346.7	3,881.0	2,479.2	1,338.8	947.7	943.3	1,004.1	908.2
28-59 days	315.1	534.6	1,194.7	941.2	686.6	327.6	199.7	192.8	206.0	194.6
2-11 months	1,006.2	564.3	3,152.0	2,939.8	1,792.6	1,011.2	748.0	750.6	798.1	713.6

Table 3. Births and survivors at selected age intervals up to 2 months, by birth weight, color, and sex: United States, 1960 live-birth cohort

Color, sex, and age	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
TOTAL										
<u>Both sexes</u>										
Births	4,257,850	24,323	27,756	61,905	217,436	787,037	1,616,543	1,139,043	317,813	65,994
7 days	4,187,819	2,575	14,249	51,556	209,537	780,788	1,610,829	1,135,984	316,771	65,530
14 days	4,183,728	2,236	13,609	51,066	209,032	780,118	1,610,028	1,135,531	316,631	65,477
21 days	4,181,341	2,158	13,398	50,857	208,704	779,612	1,609,459	1,135,167	316,545	65,441
28 days	4,179,520	2,121	13,282	50,726	208,426	779,220	1,608,962	1,134,894	316,472	65,417
2 months	4,172,587	2,067	13,049	50,296	207,440	777,417	1,606,949	1,133,851	316,179	65,339
<u>Male</u>										
Births	2,179,708	12,657	14,494	30,318	98,170	343,962	790,805	643,405	201,083	44,814
7 days	2,138,941	1,073	6,528	23,908	93,326	340,329	787,407	641,463	200,401	44,506
14 days	2,136,676	943	6,178	23,638	93,070	339,963	786,928	641,176	200,310	44,470
21 days	2,135,303	904	6,064	23,533	92,901	339,685	786,585	640,939	200,246	44,446
28 days	2,134,266	891	6,005	23,458	92,767	339,461	786,301	640,763	200,192	44,428
2 months	2,130,282	869	5,888	23,227	92,238	338,484	785,111	640,099	199,994	44,372
<u>Female</u>										
Births	2,078,142	11,666	13,262	31,587	119,266	443,075	825,738	495,638	116,730	21,180
7 days	2,048,878	1,502	7,721	27,648	116,211	440,459	823,422	494,521	116,370	21,024
14 days	2,047,052	1,293	7,431	27,428	115,962	440,155	823,100	494,355	116,321	21,007
21 days	2,046,038	1,254	7,334	27,324	115,803	439,927	822,874	494,228	116,299	20,995
28 days	2,045,254	1,230	7,277	27,268	115,659	439,759	822,661	494,131	116,280	20,989
2 months	2,042,305	1,198	7,161	27,069	115,202	438,933	821,838	493,752	116,185	20,967
<u>WHITE</u>										
<u>Both sexes</u>										
Births	3,600,744	17,493	20,040	45,676	163,131	621,089	1,372,850	1,014,875	287,680	57,910
7 days	3,545,737	1,593	9,527	37,142	156,508	615,939	1,368,230	1,012,379	286,876	57,543
14 days	3,542,757	1,384	9,096	36,805	156,147	615,422	1,367,594	1,012,032	286,769	57,508
21 days	3,541,163	1,345	8,977	36,686	155,954	615,089	1,367,177	1,011,752	286,700	57,483
28 days	3,539,971	1,327	8,916	36,612	155,790	614,836	1,366,834	1,011,547	286,644	57,465
2 months	3,535,343	1,302	8,772	36,345	155,239	613,668	1,365,422	1,010,762	286,424	57,409
<u>Male</u>										
Births	1,848,192	9,194	10,712	22,695	74,157	269,586	666,769	572,664	182,602	39,813
7 days	1,815,967	657	4,481	17,419	70,074	266,589	664,028	571,079	182,074	39,566
14 days	1,814,281	569	4,243	17,224	69,882	266,307	663,651	570,858	182,006	39,541
21 days	1,813,338	549	4,174	17,163	69,781	266,127	663,399	570,670	181,953	39,522
28 days	1,812,655	543	4,145	17,121	69,698	265,986	663,206	570,537	181,910	39,509
2 months	1,809,950	532	4,070	16,972	69,396	265,344	662,378	570,028	181,761	39,469

Table 3. Births and survivors at selected age intervals up to 2 months, by birth weight, color, and sex: United States, 1960 live-birth cohort—Con.

Color, sex, and age	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
WHITE—Con.										
Female										
Number of births and survivors										
Births	1,752,552	8,299	9,328	22,981	88,974	351,503	706,081	442,211	105,078	18,097
7 days	1,729,770	936	5,046	19,723	86,434	349,350	704,202	441,300	104,802	17,977
14 days	1,728,476	815	4,853	19,581	86,265	349,115	703,943	441,174	104,763	17,967
21 days	1,727,825	796	4,803	19,523	86,173	348,962	703,778	441,082	104,747	17,961
28 days	1,727,316	784	4,771	19,491	86,092	348,850	703,628	441,010	104,734	17,956
2 months	1,725,393	770	4,702	19,373	85,843	348,324	703,044	440,734	104,663	17,940
ALL OTHER										
Both sexes										
Births	657,106	6,830	7,716	16,229	54,305	165,948	243,693	124,168	30,133	8,084
7 days	642,082	982	4,722	14,414	53,029	164,849	242,599	123,605	29,895	7,987
14 days	640,971	852	4,513	14,261	52,885	164,696	242,434	123,499	28,862	7,969
21 days	640,178	813	4,421	14,171	52,750	164,523	242,282	123,415	28,845	7,958
28 days	639,549	794	4,366	14,114	52,636	164,384	242,128	123,347	29,828	7,952
2 months	637,244	765	4,277	13,951	52,201	163,749	241,527	123,089	29,755	7,930
Male										
Births	331,516	3,463	3,782	7,623	24,013	74,376	124,036	70,741	18,481	5,001
7 days	322,974	416	2,047	6,489	23,252	73,740	123,379	70,384	18,327	4,940
14 days	322,395	374	1,935	6,414	23,188	73,656	123,277	70,318	18,304	4,929
21 days	321,965	355	1,890	6,370	23,120	73,558	123,186	70,269	18,293	4,924
28 days	321,611	348	1,860	6,337	23,069	73,475	123,095	70,226	18,282	4,919
2 months	320,332	337	1,818	6,255	22,842	73,140	122,733	70,071	18,233	4,903
Female										
Births	325,590	3,367	3,934	8,606	30,292	91,572	119,657	53,427	11,652	3,083
7 days	319,108	566	2,675	7,925	29,777	91,109	119,220	53,221	11,568	3,047
14 days	318,576	478	2,578	7,847	29,697	91,040	119,157	53,181	11,558	3,040
21 days	318,213	458	2,531	7,801	29,630	90,965	119,096	53,146	11,552	3,034
28 days	317,938	446	2,506	7,777	29,567	90,909	119,033	53,121	11,546	3,033
2 months	316,912	428	2,459	7,696	29,359	90,609	118,794	53,018	11,522	3,027

Table 4. Probabilities of dying per 100,000 survivors, by birth weight, color, sex, and age at death: United States, 1960 live-birth cohort

Color, sex, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
TOTAL										
<u>Both sexes</u>										
Probability of dying per 100,000 survivors										
Under 1 year of age	2,513.9	91,925.3	54,853.0	20,659.1	5,844.9	1,899.5	1,014.5	797.4	832.9	1,327.4
Under 28 days	1,839.7	91,279.9	52,147.3	18,058.3	4,143.7	993.2	469.0	364.3	421.9	874.3
Under 7 days	1,644.8	89,413.3	48,663.4	16,717.6	3,632.8	794.0	353.5	268.6	327.9	703.1
7-13 days	97.7	13,165.0	4,491.5	950.4	241.0	85.8	49.7	39.9	44.2	80.8
14-20 days	57.1	3,488.4	1,550.4	409.3	156.9	64.9	35.3	32.1	27.2	55.0
21-27 days	43.6	1,714.6	865.8	257.6	133.2	50.3	30.9	24.0	23.1	36.7
28 days-11 months	686.9	7,402.2	5,654.3	3,173.9	1,774.7	915.4	548.1	434.8	412.7	457.1
28-59 days	165.9	2,546.0	1,754.3	847.7	473.1	231.4	125.1	91.9	92.6	119.2
2-11 months	521.9	4,983.1	3,969.7	2,346.1	1,307.8	685.6	423.5	343.2	320.4	338.2
<u>Male</u>										
Under 1 year of age	2,828.4	93,529.3	61,301.2	25,440.3	7,464.6	2,402.3	1,205.9	889.6	876.8	1,341.1
Under 28 days	2,084.8	92,960.4	58,569.1	22,626.8	5,503.7	1,308.6	569.5	410.6	443.1	861.3
Under 7 days	1,870.3	91,522.5	54,960.7	21,142.6	4,934.3	1,056.2	429.7	301.8	339.2	687.3
7-13 days	105.9	12,115.6	5,361.5	1,129.3	274.3	107.5	60.8	44.7	45.4	80.9
14-20 days	64.3	4,135.7	1,845.3	444.2	181.6	81.8	43.6	37.0	32.0	54.0
21-27 days	48.6	1,438.1	973.0	318.7	144.2	65.9	36.1	27.5	27.0	40.5
28 days-11 months	759.6	8,080.8	6,594.5	3,636.3	2,075.1	1,108.2	640.0	481.0	435.6	483.9
28-59 days	186.7	2,469.1	1,948.4	984.7	570.2	287.8	151.3	103.6	98.9	126.0
2-11 months	573.9	5,753.7	4,738.5	2,677.9	1,513.5	822.8	489.4	377.8	337.0	358.3
<u>Female</u>										
Under 1 year of age	2,184.0	90,185.2	47,805.8	16,069.9	4,511.8	1,509.2	831.3	677.7	757.3	1,298.4
Under 28 days	1,582.6	89,456.5	45,128.9	13,673.3	3,024.3	748.4	372.6	304.1	385.5	901.8
Under 7 days	1,408.2	87,125.0	41,781.0	12,470.3	2,561.5	590.4	280.5	225.4	308.4	736.5
7-13 days	89.1	13,914.8	3,756.0	795.7	214.3	69.0	39.1	33.6	42.1	80.9
14-20 days	49.5	3,016.2	1,305.3	379.2	137.1	51.8	27.5	25.7	18.9	57.1
21-27 days	38.3	1,913.9	777.2	204.9	124.3	38.2	25.9	19.6	16.3	28.6
28 days-11 months	611.1	6,910.6	4,878.4	2,776.1	1,533.8	766.6	460.3	374.8	373.2	400.2
28-59 days	144.2	2,601.6	1,594.1	729.8	395.1	187.8	100.0	76.7	81.7	104.8
2-11 months	467.6	4,424.0	3,337.5	2,061.4	1,143.2	579.8	360.7	298.3	291.8	295.7

Table 4. Probabilities of dying per 100,000 survivors, by birth weight, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
WHITE										
<u>Both sexes</u>										
Probability of dying per 100,000 survivors										
Under 1 year of age	2,216.7	92,928.6	57,564.9	21,895.5	5,815.0	1,731.8	885.3	686.4	700.4	1,120.7
Under 28 days	1,687.8	92,414.1	55,509.0	19,844.1	4,500.1	1,006.8	438.2	327.9	360.1	768.4
Under 7 days	1,527.7	90,893.5	52,460.1	18,683.8	4,059.9	829.2	336.5	245.9	279.5	633.7
7-13 days	84.0	13,119.9	4,524.0	907.3	230.7	83.9	46.5	34.3	37.3	60.8
14-20 days	45.0	2,817.9	1,308.3	323.3	123.6	54.1	30.5	27.7	24.1	43.5
21-27 days	33.7	1,338.3	679.5	201.7	105.2	41.1	25.1	20.3	19.5	31.3
28 days-11 months	538.0	6,782.2	4,620.9	2,559.3	1,376.9	732.4	449.1	359.6	341.5	355.0
28-59 days	130.7	1,883.9	1,615.1	729.3	353.7	190.0	103.3	77.6	76.8	97.5
2-11 months	407.8	4,992.3	3,055.2	1,843.4	1,026.8	543.5	346.1	282.3	265.0	257.8
<u>Male</u>										
Under 1 year of age	2,509.8	94,550.8	63,433.5	26,825.3	7,525.9	2,210.1	1,057.0	771.3	741.5	1,135.3
Under 28 days	1,922.8	94,094.0	61,305.1	24,560.5	6,012.9	1,335.4	534.4	371.4	379.0	763.6
Under 7 days	1,743.6	92,854.0	58,168.4	23,247.4	5,505.9	1,111.7	411.1	276.8	289.2	620.4
7-13 days	92.8	13,394.2	5,311.3	1,119.5	274.0	105.8	56.8	38.7	37.3	63.2
14-20 days	52.0	3,514.9	1,626.2	354.2	144.5	67.6	38.0	32.9	29.1	48.1
21-27 days	37.7	1,092.9	694.8	244.7	118.9	53.0	29.1	23.3	23.6	32.9
28 days-11 months	598.5	7,734.8	5,500.6	3,002.2	1,609.8	886.5	525.5	401.4	363.9	374.5
28-59 days	149.2	2,025.8	1,809.4	870.3	433.3	241.4	124.8	89.2	81.9	101.2
2-11 months	450.0	5,827.1	3,759.2	2,150.6	1,181.6	646.7	401.1	312.4	282.2	273.6
<u>Female</u>										
Under 1 year of age	1,907.7	91,131.5	50,825.5	17,027.1	4,388.9	1,365.0	723.1	576.4	629.1	1,088.6
Under 28 days	1,440.0	90,553.1	48,852.9	15,186.5	3,239.1	754.8	347.4	271.6	327.4	779.1
Under 7 days	1,299.9	88,721.5	45,904.8	14,176.9	2,854.8	612.5	266.1	206.0	262.7	663.1
7-13 days	74.8	12,927.4	3,824.8	720.0	195.5	67.3	36.8	28.6	37.2	55.6
14-20 days	37.7	2,331.3	1,030.3	296.2	106.6	43.8	23.4	20.9	15.3	33.4
21-27 days	29.5	1,507.5	666.3	163.9	94.0	32.1	21.3	16.3	12.4	27.8
28 days-11 months	474.6	6,122.4	3,856.6	2,170.2	1,188.3	614.9	377.0	305.7	302.7	311.9
28-59 days	111.3	1,785.7	1,446.2	605.4	289.2	150.8	83.0	62.6	67.8	89.1
2-11 months	363.6	4,415.6	2,445.8	1,574.4	901.6	464.8	294.3	243.2	235.0	223.0

Table 4. Probabilities of dying per 100,000 survivors, by birth weight, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL OTHER										
<u>Both sexes</u>										
Probability of dying per 100,000 survivors										
Under 1 year of age	4,142.3	89,355.8	47,809.7	17,179.1	5,935.0	2,527.3	1,742.4	1,704.9	2,097.4	2,808.0
Under 28 days	2,671.9	88,374.8	43,416.3	13,032.2	3,073.4	942.5	642.2	661.2	1,012.2	1,632.9
Under 7 days	2,286.4	85,622.3	38,802.5	11,183.7	2,349.7	662.3	448.9	453.4	789.8	1,199.9
7-13 days	173.0	13,238.3	4,426.1	1,061.5	271.5	92.8	68.0	85.8	110.4	225.4
14-20 days	123.7	4,577.5	2,038.6	631.1	255.3	105.0	62.7	68.0	56.9	138.0
21-27 days	98.3	2,337.0	1,244.1	402.2	216.1	84.5	63.6	55.1	57.0	75.4
28 days-11 months	1,510.8	8,438.3	7,764.5	4,768.3	2,952.4	1,599.9	1,107.3	1,050.7	1,096.3	1,194.7
28-59 days	360.4	3,652.4	2,038.5	1,154.9	826.4	386.3	248.2	209.2	244.7	276.7
2-11 months	1,154.5	4,967.3	5,845.2	3,655.7	2,143.6	1,218.3	861.2	843.3	853.6	920.6
<u>Male</u>										
Under 1 year of age	4,604.6	90,817.2	55,261.8	21,317.1	7,275.2	3,099.1	2,005.9	1,857.6	2,213.1	2,979.4
Under 28 days	2,987.8	89,950.9	50,819.7	16,870.0	3,931.2	1,211.4	758.7	728.0	1,076.8	1,639.7
Under 7 days	2,576.6	87,987.3	45,875.2	14,876.0	3,169.1	855.1	529.7	504.7	833.3	1,219.8
7-13 days	179.3	10,096.2	5,471.4	1,155.8	275.2	113.9	82.7	93.8	125.5	222.7
14-20 days	133.4	5,080.2	2,325.6	686.0	293.3	133.1	73.8	69.7	60.1	101.4
21-27 days	109.9	1,971.8	1,587.3	518.1	220.6	112.8	73.9	61.2	60.1	101.5
28 days-11 months	1,666.6	8,620.7	9,032.3	5,349.5	3,480.9	1,910.9	1,256.8	1,127.8	1,148.7	1,362.1
28-59 days	397.7	3,160.9	2,258.1	1,294.0	984.0	455.9	294.1	220.7	268.0	325.3
2-11 months	1,274.0	5,638.0	6,930.7	4,108.7	2,521.7	1,461.6	965.5	909.1	883.0	1,040.2
<u>Female</u>										
Under 1 year of age	3,671.5	87,852.7	40,645.7	13,513.8	4,872.6	2,062.9	1,469.2	1,516.1	1,913.8	2,530.0
Under 28 days	2,350.2	86,753.8	36,298.9	9,632.8	2,393.4	724.0	521.5	572.7	909.7	1,621.8
Under 7 days	1,990.8	83,189.8	32,003.1	7,913.1	1,700.1	505.6	365.2	385.6	720.9	1,167.7
7-13 days	166.7	15,547.7	3,626.2	984.2	268.7	75.7	52.8	75.2	86.4	229.7
14-20 days	113.9	4,184.1	1,823.1	586.2	225.6	82.4	51.2	65.8	51.9	197.4
21-27 days	86.4	2,620.1	987.8	307.7	212.6	61.6	52.9	47.0	51.9	33.0
28 days-11 months	1,353.1	8,296.0	6,823.6	4,294.7	2,540.0	1,348.6	952.7	948.8	1,013.3	923.2
28-59 days	322.7	4,035.9	1,875.5	1,041.5	703.5	330.0	200.8	193.9	207.9	197.8
2-11 months	1,033.7	4,439.3	5,042.7	3,287.4	1,849.5	1,022.0	753.4	756.3	807.2	726.8

Table 5. Deaths under 1 year of age, by period of gestation, color, sex, and age at death: United States, 1960 live-birth cohort

Color, sex, and age at death	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
<u>TOTAL</u>		Number of deaths under 1 year of age							
<u>Both sexes</u>									
Under 1 year of age	107,038	1,078	19,685	14,198	11,621	5,339	9,723	36,905	8,489
Under 28 days	78,330	1,076	19,479	13,387	10,131	3,747	5,814	18,254	6,442
Under 7 days	70,031	1,074	19,015	12,568	9,400	3,245	4,834	14,051	5,844
7-13 days	4,091	2	324	554	424	249	438	1,792	308
14-27 days	4,208	-	140	265	307	253	542	2,411	290
28 days-11 months	28,708	2	206	811	1,490	1,592	3,909	18,651	2,047
28 days-5 months	21,641	1	179	675	1,197	1,219	2,997	13,764	1,609
6-11 months	7,067	1	27	136	293	373	912	4,887	438
<u>Male</u>									
Under 1 year of age	61,651	587	10,867	8,298	7,106	3,100	5,659	21,094	4,940
Under 28 days	45,442	586	10,754	7,863	6,213	2,218	3,426	10,603	3,779
Under 7 days	40,767	586	10,526	7,441	5,810	1,951	2,847	8,166	3,440
7-13 days	2,265	-	146	287	237	133	253	1,041	168
14-27 days	2,410	-	82	135	166	134	326	1,396	171
28 days-11 months	16,209	1	113	435	893	882	2,233	10,491	1,161
28 days-5 months	12,360	-	95	366	733	692	1,736	7,813	925
6-11 months	3,849	1	18	69	160	190	497	2,678	236
<u>Female</u>									
Under 1 year of age	45,387	491	8,818	5,900	4,515	2,239	4,064	15,811	3,549
Under 28 days	32,888	490	8,725	5,524	3,918	1,529	2,388	7,651	2,663
Under 7 days	29,264	488	8,499	5,127	3,590	1,294	1,987	5,885	2,404
7-13 days	1,826	2	178	267	187	116	185	751	140
14-27 days	1,798	-	58	130	141	119	216	1,015	119
28 days-11 months	12,499	1	93	376	597	710	1,676	8,160	886
28 days-5 months	9,281	1	84	309	464	527	1,261	5,951	684
6-11 months	3,218	-	9	67	133	183	415	2,209	202

Table 5. Deaths under 1 year of age, by period of gestation, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
WHITE									
<u>Both sexes</u>									
Number of deaths under 1 year of age									
Under 1 year of age	79,819	677	14,686	10,707	9,331	3,908	7,833	26,173	6,504
Under 28 days	60,773	676	14,585	10,277	8,393	2,970	4,898	13,910	5,064
Under 7 days	55,007	675	14,296	9,762	7,882	2,648	4,149	10,952	4,643
7-13 days	2,980	1	202	379	316	161	358	1,332	231
14-27 days	2,786	-	87	136	195	161	391	1,626	190
28 days-11 months	19,046	1	101	430	938	938	2,935	12,263	1,440
28 days-5 months	14,282	-	86	361	757	716	2,234	8,981	1,147
6-11 months	4,764	1	15	69	181	222	701	3,282	293
<u>Male</u>									
Under 1 year of age	46,386	371	8,224	6,345	5,752	2,294	4,575	15,010	3,815
Under 28 days	35,537	370	8,166	6,096	5,172	1,757	2,886	8,086	3,004
Under 7 days	32,225	370	8,017	5,814	4,881	1,589	2,432	6,364	2,758
7-13 days	1,686	---	98	209	180	84	210	773	132
14-27 days	1,626	---	51	73	111	84	244	949	114
28 days-11 months	10,849	1	58	249	580	537	1,689	6,924	811
28 days-5 months	8,258	---	48	208	479	422	1,306	5,132	663
6-11 months	2,591	1	10	41	101	115	383	1,792	148
<u>Female</u>									
Under 1 year of age	33,433	306	6,462	4,362	3,579	1,614	3,258	11,163	2,689
Under 28 days	25,236	306	6,419	4,181	3,221	1,213	2,012	5,824	2,060
Under 7 days	22,782	305	6,279	3,948	3,001	1,059	1,717	4,588	1,885
7-13 days	1,294	1	104	170	136	77	148	559	99
14-27 days	1,160	-	36	63	84	77	147	677	76
28 days-11 months	8,197	-	43	181	358	401	1,246	5,339	629
28 days-5 months	6,024	-	38	153	278	294	928	3,849	484
6-11 months	2,173	-	5	28	80	107	318	1,490	145

Table 5. Deaths under 1 year of age, by period of gestation, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
ALL OTHER									
<u>Both sexes</u>									
Number of-deaths under 1 year of age									
Under 1 year of age	27,219	401	4,999	3,491	2,290	1,431	1,890	10,732	1,985
Under 28 days	17,557	400	4,894	3,110	1,738	777	916	4,344	1,378
Under 7 days	15,024	399	4,719	2,806	1,518	597	685	3,099	1,201
7-13 days	1,111	1	122	175	108	88	80	460	77
14-27 days	1,422	-	53	129	112	92	151	785	100
28 days-11 months	9,662	1	105	381	552	654	974	6,388	607
28 days-5 months	7,359	1	93	314	440	503	763	4,783	462
6-11 months	2,303	-	12	67	112	151	211	1,605	145
<u>Male</u>									
Under 1 year of age	15,265	216	2,643	1,953	1,354	806	1,084	6,084	1,125
Under 28 days	9,905	216	2,588	1,767	1,041	461	540	2,517	775
Under 7 days	8,542	216	2,509	1,627	929	362	415	1,802	682
7-13 days	579	-	48	78	57	49	43	268	36
14-27 days	784	-	31	62	55	50	82	447	57
28 days-11 months	5,360	-	55	186	313	345	544	3,567	350
28 days-5 months	4,102	-	47	158	254	270	430	2,681	262
6-11 months	1,258	-	8	28	59	75	114	886	88
<u>Female</u>									
Under 1 year of age	11,954	185	2,356	1,538	936	625	806	4,648	860
Under 28 days	7,652	184	2,306	1,343	697	316	376	1,827	603
Under 7 days	6,482	183	2,210	1,179	589	235	270	1,297	519
7-13 days	532	1	74	97	51	39	37	192	41
14-27 days	638	-	22	67	57	42	69	338	43
28 days-11 months	4,302	1	50	195	239	309	430	2,821	257
28 days-5 months	3,257	1	46	156	186	233	333	2,102	200
6-11 months	1,405	-	4	39	53	76	97	719	57

Table 6. Infant mortality rates per 100,000 live births, by period of gestation, color, sex, and age at death: United States, 1960 live-birth cohort

Color, sex, and age at death	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
<u>TOTAL</u>		Rate per 100,000 live births							
<u>Both sexes</u>									
Under 1 year of age	2,513.9	65,096.6	81,497.9	41,502.5	12,398.9	4,033.4	1,518.9	1,195.1	3,483.1
Under 28 days	1,839.7	64,975.8	80,645.0	39,131.8	10,809.2	2,830.7	908.3	591.1	2,643.2
Under 7 days	1,644.8	64,855.1	78,724.0	36,737.8	10,029.2	2,451.5	755.2	455.0	2,397.8
7-13 days	96.1	120.8	1,341.4	1,619.4	452.4	188.1	68.4	58.0	126.4
14-27 days	98.8	-	579.6	774.6	327.6	191.1	84.7	78.1	119.0
28 days-11 months	674.2	120.8	852.9	2,370.7	1,589.7	1,202.7	610.7	604.0	839.9
28 days-5 months	508.3	60.4	741.1	1,973.1	1,277.1	920.9	468.2	445.7	660.2
6-11 months	166.0	60.4	111.8	397.5	312.6	281.8	142.5	158.3	179.7
<u>Male</u>									
Under 1 year of age	2,828.4	67,316.5	82,777.3	45,478.5	14,231.9	4,547.3	1,707.0	1,341.8	3,927.1
Under 28 days	2,084.8	67,201.8	81,916.5	43,094.4	12,443.4	3,253.5	1,033.5	674.5	3,004.1
Under 7 days	1,870.3	67,201.8	80,179.8	40,781.5	11,636.3	2,861.9	858.8	519.4	2,734.6
7-13 days	103.9	-	1,112.1	1,572.9	474.7	195.1	76.3	66.2	133.6
14-27 days	110.6	-	624.6	739.9	332.5	196.6	98.3	88.8	135.9
28 days-11 months	743.6	114.7	860.8	2,384.1	1,788.5	1,293.8	673.6	667.3	922.9
28 days-5 months	567.0	-	723.6	2,005.9	1,468.1	1,015.1	523.7	497.0	735.3
6-11 months	176.6	114.7	137.1	378.2	320.4	278.7	149.9	170.4	187.6
<u>Female</u>									
Under 1 year of age	2,184.0	62,627.6	79,974.6	36,958.2	10,309.2	3,487.6	1,316.9	1,043.1	3,009.5
Under 28 days	1,582.6	62,500.0	79,131.1	34,602.9	8,946.0	2,381.7	773.8	504.7	2,258.2
Under 7 days	1,408.2	62,244.9	76,990.7	32,116.0	8,197.1	2,015.6	643.9	388.2	2,038.5
7-13 days	87.9	255.1	1,614.4	1,672.5	427.0	180.7	59.9	49.5	118.7
14-27 days	86.5	-	526.0	814.3	321.9	185.4	70.0	67.0	100.9
28 days-11 months	601.5	127.6	843.5	2,355.3	1,363.1	1,106.0	543.1	538.3	751.3
28 days-5 months	446.6	127.6	761.8	1,935.6	1,059.5	820.9	408.6	392.6	580.0
6-11 months	154.8	-	81.6	419.7	303.7	285.1	134.5	145.7	171.3

Table 6. Infant mortality rates per 100,000 live births, by period of gestation, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
WHITE									
<u>Both sexes</u>		Rate per 100,000 live births							
Under 1 year of age	2,216.7	64,109.8	84,247.4	44,423.7	13,079.3	3,927.3	1,426.3	999.0	2,979.5
Under 28 days	1,687.8	64,015.2	83,668.0	42,639.6	11,764.5	2,984.7	891.8	531.0	2,319.8
Under 7 days	1,527.7	63,920.5	82,010.1	40,502.9	11,048.2	2,661.1	755.5	418.0	2,126.9
7-13 days	82.8	94.7	1,158.8	1,572.5	442.9	161.8	65.2	50.8	105.8
14-27 days	77.4	-	499.1	564.3	273.3	161.8	71.2	62.1	87.0
28 days-11 months	528.9	94.7	579.4	1,784.1	1,314.8	942.6	534.4	468.1	659.7
28 days-5 months	396.6	-	493.3	1,497.8	1,061.1	719.5	406.8	342.8	525.4
6-11 months	132.3	94.7	86.0	286.3	253.7	223.1	127.6	125.3	134.2
<u>Male</u>									
Under 1 year of age	2,509.8	65,087.7	85,117.0	48,155.7	14,887.7	4,417.7	1,601.4	1,123.6	3,387.1
Under 28 days	1,922.8	64,912.3	84,516.7	46,265.9	13,386.5	3,383.5	1,010.2	605.3	2,667.0
Under 7 days	1,743.6	64,912.3	82,974.5	44,125.7	12,633.3	3,060.0	851.3	476.4	2,448.6
7-13 days	91.2	-	1,014.3	1,586.2	465.9	161.8	73.5	57.9	117.2
14-27 days	88.0	-	527.8	554.0	287.3	161.8	85.4	71.0	101.2
28 days-11 months	587.0	175.4	600.3	1,889.8	1,501.2	1,034.1	591.2	518.3	720.0
28 days-5 months	446.8	-	496.8	1,578.6	1,239.8	812.7	457.1	384.2	588.6
6-11 months	140.2	175.4	103.5	311.2	261.4	221.5	134.1	134.1	131.4
<u>Female</u>									
Under 1 year of age	1,907.7	62,963.0	83,166.0	39,923.1	10,942.9	3,392.2	1,236.4	869.4	2,545.0
Under 28 days	1,440.0	62,963.0	82,612.6	38,266.5	9,848.3	2,549.4	763.5	453.6	1,949.6
Under 7 days	1,299.9	62,757.2	80,810.8	36,134.0	9,175.7	2,225.7	651.6	357.3	1,784.0
7-13 days	73.8	205.8	1,338.5	1,555.9	415.8	161.8	56.2	43.5	93.7
14-27 days	66.2	-	463.3	576.6	256.8	161.8	55.8	52.7	71.9
28 days-11 months	467.7	-	553.4	1,656.6	1,094.6	842.8	472.9	415.8	595.3
28 days-5 months	343.7	-	489.1	1,400.3	850.0	617.9	352.2	299.8	458.1
6-11 months	124.0	-	64.4	256.3	244.6	224.9	120.7	116.1	137.2

Table 6. Infant mortality rates per 100,000 live births, by period of gestation, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Period of gestation								
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated	
ALL OTHER										
<u>Both sexes</u>		Rate per 100,000 live births								
Under 1 year of age	4,142.3	66,833.3	74,367.7	34,537.0	10,230.5	4,354.6	2,078.8	2,292.7	7,806.4	
Under 28 days	2,671.9	66,666.7	72,805.7	30,767.7	7,764.5	2,364.4	1,007.5	928.0	5,419.2	
Under 7 days	2,286.4	66,500.0	70,202.3	27,760.2	6,781.6	1,816.7	753.4	662.1	4,723.1	
7-13 days	169.1	166.7	1,814.9	1,731.3	482.5	267.8	88.0	98.3	302.8	
14-27 days	216.4	-	788.5	1,276.2	500.4	280.0	166.1	167.7	393.3	
28 days-11 months	1,470.4	166.7	1,562.0	3,769.3	2,466.0	1,990.1	1,071.3	1,364.7	2,387.1	
28 days-5 months	1,119.9	166.7	1,383.5	3,106.5	1,965.7	1,530.6	839.2	1,021.8	1,816.9	
6-11 months	350.5	-	178.5	662.8	500.4	459.5	232.1	342.9	570.2	
<u>Male</u>										
Under 1 year of age	4,604.6	71,523.2	76,255.0	38,520.7	11,988.7	4,961.8	2,365.9	2,576.2	8,548.6	
Under 28 days	2,987.8	71,523.2	74,668.2	34,852.1	9,217.3	2,838.0	1,178.6	1,065.8	5,889.1	
Under 7 days	2,576.6	71,523.2	72,388.9	32,090.7	8,225.6	2,228.5	905.8	763.0	5,182.4	
7-13 days	174.7	-	1,384.9	1,538.5	504.7	301.6	93.8	113.5	273.6	
14-27 days	236.5	-	894.4	1,222.9	487.0	307.8	179.0	189.3	433.1	
28 days-11 months	1,616.8	-	1,586.8	3,668.6	2,771.4	2,123.9	1,187.3	1,510.4	2,659.6	
28 days-5 months	1,237.3	-	1,356.0	3,116.4	2,249.0	1,662.2	938.5	1,135.2	1,990.9	
6-11 months	379.5	-	230.8	552.3	522.4	461.7	248.8	375.2	668.7	
<u>Female</u>										
Under 1 year of age	3,671.5	62,080.5	72,358.7	30,528.0	8,440.0	3,761.0	1,787.2	2,004.1	7,010.1	
Under 28 days	2,350.2	61,745.0	70,823.1	26,657.4	6,284.9	1,901.6	833.7	787.8	4,915.2	
Under 7 days	1,990.8	61,409.4	67,874.7	23,402.1	5,311.1	1,414.1	598.7	559.2	4,230.5	
7-13 days	163.4	335.6	2,272.7	1,925.4	459.9	234.7	82.0	82.8	334.2	
14-27 days	196.0	-	675.7	1,329.9	514.0	252.7	153.0	145.7	350.5	
28 days-11 months	1,321.3	335.6	1,535.6	3,870.6	2,155.1	1,859.4	953.5	1,216.3	2,094.9	
28 days-5 months	1,000.3	335.6	1,412.8	3,096.5	1,677.2	1,402.1	738.4	906.3	1,630.3	
6-11 months	321.0	-	122.9	774.1	477.9	457.3	215.1	310.0	464.6	

Table 7. Births and survivors at selected age intervals up to 6 months, by period of gestation, color, and sex: United States, 1960 live-birth cohort

Color, sex, and age	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
TOTAL									
<u>Both sexes</u>		Number of births and survivors							
Births	4,257,850	1,656	24,154	34,210	93,726	132,370	640,114	3,087,898	243,722
7 days	4,187,819	582	5,139	21,642	84,326	129,125	635,280	3,073,847	237,878
14 days	4,183,728	580	4,815	21,088	83,902	128,876	634,842	3,072,055	237,570
28 days	4,179,520	580	4,675	20,823	83,595	128,623	634,300	3,069,644	237,280
6 months	4,157,879	579	4,496	20,148	82,398	127,404	631,303	3,055,880	235,671
<u>Male</u>									
Births	2,179,708	872	13,128	18,246	49,930	68,172	331,510	1,572,056	125,794
7 days	2,138,941	286	2,602	10,805	44,120	66,221	328,663	1,563,890	122,354
14 days	2,136,676	286	2,456	10,518	43,883	66,088	328,410	1,562,849	122,186
28 days	2,134,266	286	2,374	10,383	43,717	65,954	328,084	1,561,453	122,015
6 months	2,121,906	286	2,279	10,017	42,984	65,262	326,348	1,553,640	121,090
<u>Female</u>									
Births	2,078,142	784	11,026	15,964	43,796	64,198	308,604	1,515,842	117,928
7 days	2,048,878	296	2,537	10,837	40,206	62,904	306,617	1,509,957	115,524
14 days	2,047,052	294	2,359	10,570	40,019	62,788	306,432	1,509,206	115,384
28 days	2,045,254	294	2,301	10,440	39,878	62,669	306,216	1,508,191	115,265
6 months	2,035,973	293	2,217	10,131	39,414	62,142	304,955	1,502,240	114,581
WHITE									
<u>Both sexes</u>									
Births	3,600,744	1,056	17,432	24,102	71,342	99,508	549,198	2,619,812	218,294
7 days	3,545,737	381	3,136	14,340	63,460	96,860	545,049	2,608,860	213,651
14 days	3,542,757	380	2,934	13,961	63,144	96,699	544,691	2,607,528	213,420
28 days	3,539,971	380	2,847	13,825	62,949	96,538	544,300	2,605,902	213,230
6 months	3,525,689	380	2,761	13,464	62,192	95,822	542,066	2,596,921	212,083
<u>Male</u>									
Births	1,848,192	570	9,662	13,176	38,636	51,928	285,692	1,335,894	112,634
7 days	1,815,967	200	1,645	7,362	33,755	50,339	283,260	1,329,530	109,876
14 days	1,814,281	200	1,547	7,153	33,575	50,255	283,050	1,328,757	109,744
28 days	1,812,655	200	1,496	7,080	33,464	50,171	282,806	1,327,808	109,630
6 months	1,804,397	200	1,448	6,872	32,985	49,749	281,500	1,322,676	108,967

Table 7. Births and survivors at selected age intervals up to 6 months, by period of gestation, color, and sex: United States, 1960 live-birth cohort—Con.

Color, sex, and age	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
<u>WHITE—Con,</u> <u>Female</u>		Number of births and survivors							
Births	1,752,552	486	7,770	10,926	32,706	47,580	263,506	1,283,918	105,660
7 days	1,729,770	181	1,491	6,978	29,705	46,521	261,789	1,279,330	103,775
14 days	1,728,476	180	1,387	6,808	28,569	46,444	261,641	1,278,771	103,676
28 days	1,727,316	180	1,351	6,745	29,485	46,367	261,494	1,278,094	103,600
6 months	1,721,292	180	1,313	6,592	29,207	46,073	260,566	1,274,245	103,116
<u>ALL OTHER</u> <u>Both sexes</u>									
Births	657,106	600	6,722	10,108	22,384	32,862	90,916	468,086	25,428
7 days	642,082	201	2,003	7,302	20,866	32,265	90,231	464,987	24,227
14 days	640,971	200	1,881	7,127	20,758	32,177	90,151	464,527	24,150
28 days	639,549	200	1,828	6,998	20,646	32,085	90,000	463,742	24,050
6 months	632,190	199	1,735	6,684	20,206	31,582	89,237	458,959	23,588
<u>Male</u>									
Births	331,516	302	3,466	5,070	11,294	16,244	45,818	236,162	13,160
7 days	322,974	86	957	3,443	10,365	15,882	45,403	234,360	12,478
14 days	322,395	86	909	3,365	10,308	15,833	45,360	234,092	12,442
28 days	321,611	86	878	3,303	10,253	15,783	45,278	233,645	12,385
6 months	317,509	86	831	3,145	9,999	15,513	44,848	230,964	12,123
<u>Female</u>									
Births	325,590	298	3,256	5,038	11,090	16,618	45,098	231,924	12,268
7 days	325,590	115	1,046	3,859	10,501	16,383	44,828	230,627	11,749
14 days	318,576	114	972	3,762	10,450	16,344	44,791	230,435	11,708
28 days	317,938	114	950	3,695	10,393	16,302	44,722	230,097	11,665
6 months	314,681	113	904	3,539	10,207	16,069	44,389	227,995	11,465

Table 8. Probabilities of dying per 100,000 survivors, by period of gestation, color, sex, and age at death: United States, 1960 live-birth cohort

Color, sex, and age at death	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
TOTAL									
<u>Both sexes</u>									
Probability of dying per 100,000 survivors									
Under 1 year of age	2,513.9	65,096.6	81,497.9	41,502.5	12,398.9	4,033.4	1,518.9	1,195.1	3,483.1
Under 28 days	1,839.7	64,975.8	80,645.0	39,131.8	10,809.2	2,830.7	908.3	591.1	2,643.2
Under 7 days	1,644.8	64,855.1	78,724.0	36,737.8	10,029.2	2,451.5	755.2	455.0	2,397.8
7-13 days	97.7	¹ 343.6	6,304.7	2,559.8	502.8	192.8	68.9	58.3	129.5
14-27 days	100.6	¹ -	2,907.6	1,256.6	365.9	196.3	85.4	78.5	122.1
28 days-11 months	686.9	¹ 344.8	4,406.4	3,894.7	1,782.4	1,237.7	616.3	607.6	862.7
28 days-5 months	517.8	¹ 172.4	3,828.9	3,241.6	1,431.9	947.7	472.5	448.4	678.1
6-11 months	170.0	¹ 172.7	600.5	675.0	355.6	292.8	144.5	159.9	185.9
<u>Male</u>									
Under 1 year of age	2,828.4	67,316.5	82,777.3	45,478.5	14,231.9	4,547.3	1,707.9	1,341.8	3,927.1
Under 28 days	2,084.8	67,201.8	81,916.5	43,094.4	12,443.4	3,253.5	1,033.5	674.5	3,004.1
Under 7 days	1,870.3	67,201.8	80,179.8	40,781.5	11,636.3	2,861.9	858.8	519.4	2,734.6
7-13 days	105.9	¹ -	5,611.1	2,656.2	537.2	200.8	77.0	66.6	137.3
14-27 days	112.8	¹ -	3,338.8	1,283.5	378.3	202.8	99.3	89.3	140.0
28 days-11 months	759.5	¹ 349.7	4,759.9	4,189.5	2,042.7	1,337.3	680.6	671.9	951.5
28 days-5 months	579.1	¹ -	4,001.7	3,525.0	1,676.7	1,049.2	529.1	500.4	758.1
6-11 months	181.4	¹ 349.7	¹ 789.8	688.8	372.2	291.1	152.3	172.4	194.9
<u>Female</u>									
Under 1 year of age	2,184.0	62,627.6	79,974.6	36,958.2	10,309.2	3,487.6	1,316.9	1,043.1	3,009.5
Under 28 days	1,582.6	62,500.0	79,131.1	34,602.9	8,946.0	2,381.7	773.8	504.7	2,258.2
Under 7 days	1,408.2	62,244.9	76,990.7	32,116.0	8,197.1	2,015.6	643.9	388.2	2,038.5
7-13 days	89.1	¹ 675.7	7,016.2	2,463.8	465.1	184.4	60.3	49.7	121.2
14-27 days	87.8	¹ -	2,458.7	1,229.9	352.3	189.5	70.5	67.3	103.1
28 days-11 months	611.1	¹ 340.1	4,041.7	3,601.5	1,497.1	1,132.9	547.3	541.0	768.7
28 days-5 months	453.8	¹ 340.1	3,650.6	2,959.8	1,163.5	840.9	411.8	394.6	593.4
6-11 months	158.1	¹ -	¹ 406.0	661.3	337.4	294.5	136.1	147.0	176.3

¹ See footnote at end of table.

Table 8. Probabilities of dying per 100,000 survivors, by period of gestation, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
WHITE									
<u>Both sexes</u>									
Probability of dying per 100,000 survivors									
Under 1 year of age	2,216.7	64,109.8	84,247.4	44,423.7	13,079.3	3,927.3	1,426.3	999.0	2,979.5
Under 28 days	1,687.8	64,015.2	83,668.0	42,639.6	11,764.5	2,984.7	891.8	531.0	2,319.8
Under 7 days	1,527.7	63,920.5	82,010.1	40,502.9	11,048.2	2,661.1	755.5	418.0	2,126.9
7-13 days	84.0	¹ 262.5	6,441.3	2,643.0	498.0	166.2	65.7	51.1	108.1
14-27 days	78.6	¹ -	2,965.2	974.1	308.8	166.5	71.8	62.4	89.0
28 days-11 months	538.0	¹ 263.2	3,547.6	3,110.3	1,490.1	971.6	539.2	470.6	675.3
28 days-5 months	403.4	¹ -	3,020.7	2,611.2	1,202.6	741.7	410.4	344.6	537.9
6-11 months	135.1	¹ 263.2	543.3	512.5	291.0	231.7	129.3	126.4	138.2
<u>Male</u>									
Under 1 year of age	2,509.8	65,087.7	85,117.0	48,155.7	14,887.7	4,417.7	1,601.4	1,123.6	3,387.1
Under 28 days	1,922.8	64,912.3	84,516.7	46,265.9	13,386.5	3,383.5	1,010.2	605.3	2,667.0
Under 7 days	1,743.6	64,912.3	82,974.5	44,125.7	12,633.3	3,060.0	851.3	476.4	2,448.6
7-13 days	92.8	¹ -	5,957.4	2,838.9	533.3	166.9	74.1	58.1	120.1
14-27 days	89.6	¹ -	3,296.7	1,020.6	330.6	167.1	86.2	71.4	103.9
28 days-11 months	598.5	¹ 500.0	3,877.0	3,516.9	1,733.2	1,070.3	597.2	521.5	739.8
28 days-5 months	455.6	¹ -	3,208.6	2,937.9	1,431.4	841.1	461.8	386.5	604.8
6-11 months	143.6	¹ 500.0	¹ 690.6	596.6	306.2	231.2	136.1	135.5	135.8
<u>Female</u>									
Under 1 year of age	1,907.7	62,963.0	83,166.0	39,923.1	10,942.9	3,392.2	1,236.4	869.4	2,545.0
Under 28 days	1,440.0	62,963.0	82,612.6	38,266.5	9,848.3	2,549.4	763.5	453.6	1,949.6
Under 7 days	1,299.9	62,757.2	80,810.8	36,134.0	9,175.7	2,225.7	651.6	357.3	1,784.0
7-13 days	74.8	¹ 552.5	6,975.2	2,436.2	457.8	165.6	56.5	43.7	95.4
14-27 days	67.1	¹ -	2,595.5	925.4	284.1	165.8	56.2	52.9	73.3
28 days-11 months	474.6	¹ -	3,182.8	2,683.5	1,214.2	864.8	476.5	417.7	607.1
28 days-5 months	348.7	¹ -	2,812.7	2,268.3	942.9	634.1	354.9	301.2	467.2
6-11 months	126.2	¹ -	¹ 380.8	424.8	273.9	232.2	122.0	116.9	140.6

¹ See footnote at end of table.

Table 8. Probabilities of dying per 100,000 survivors, by period of gestation, color, sex, and age at death: United States, 1960 live-birth cohort—Con.

Color, sex, and age at death	Total	Period of gestation							
		Under 20 weeks	20 to 27 weeks	28 to 31 weeks	32 to 35 weeks	36 weeks	37 to 39 weeks	40 weeks and over	Not stated
ALL OTHER									
<u>Both sexes</u>									
Probability of dying per 100,000 survivors									
Under 1 year of age	4,142.3	66,833.3	74,367.7	34,537.0	10,230.5	4,354.6	2,078.8	2,292.7	7,806.4
Under 28 days	2,671.9	66,666.7	72,805.7	30,767.7	7,764.5	2,364.4	1,007.5	928.0	5,419.2
Under 7 days	2,286.4	66,500.0	70,202.3	27,760.2	6,781.6	1,816.7	753.4	662.1	4,723.1
7-13 days	173.0	¹ 497.5	6,090.9	2,396.6	517.6	272.7	88.7	98.9	317.8
14-27 days	221.9	¹ -	2,817.7	1,810.0	539.6	285.9	167.5	169.0	414.1
28 days-11 months	1,510.8	¹ 500.0	5,744.0	5,444.4	2,673.6	2,038.3	1,082.2	1,377.5	2,523.9
28 days-5 months	1,150.7	¹ 500.0	5,087.5	4,487.0	2,131.2	1,567.7	847.8	1,031.4	1,921.0
6-11 months	364.3	¹ -	¹ 691.6	1,002.4	554.3	478.1	236.4	349.7	614.7
<u>Male</u>									
Under 1 year of age	4,604.6	71,523.2	76,255.0	38,520.7	11,988.7	4,961.8	2,365.9	2,576.2	8,548.6
Under 28 days	2,987.8	71,523.2	74,668.2	34,852.1	9,217.3	2,838.0	1,178.6	1,065.8	5,889.1
Under 7 days	2,576.6	71,523.2	72,388.9	32,090.7	8,225.6	2,228.5	905.8	763.0	5,182.4
7-13 days	179.3	¹ -	5,015.7	2,265.5	549.9	308.5	94.7	114.4	288.5
14-27 days	243.2	¹ -	3,410.3	1,842.5	533.6	315.8	180.8	191.0	458.1
28 days-11 months	1,666.6	¹ -	6,264.2	5,631.2	3,052.8	2,185.9	1,201.5	1,526.7	2,826.0
28 days-5 months	1,275.5	¹ -	5,353.1	4,783.5	2,477.3	1,710.7	949.7	1,147.5	2,115.5
6-11 months	396.2	¹ -	¹ 962.7	890.3	590.1	483.5	254.2	383.6	725.9
<u>Female</u>									
Under 1 year of age	3,671.5	62,080.5	72,358.7	30,528.0	8,440.0	3,761.0	1,787.2	2,004.1	7,010.1
Under 28 days	2,350.2	61,745.0	70,823.1	26,657.4	6,284.9	1,901.6	833.7	787.8	4,915.2
Under 7 days	1,990.8	61,409.4	67,874.7	23,402.1	5,311.1	1,414.1	598.7	559.2	4,230.5
7-13 days	166.7	¹ 869.6	7,074.6	2,513.6	485.7	238.1	82.5	83.3	349.0
14-27 days	200.3	¹ -	2,263.4	1,781.0	545.5	257.0	154.0	146.7	367.3
28 days-11 months	1,353.1	¹ 877.2	5,263.2	5,277.4	2,299.6	1,895.5	961.5	1,226.0	2,203.2
28 days-5 months	1,024.4	¹ 877.2	4,842.1	4,221.9	1,789.7	1,429.3	744.6	913.5	1,714.5
6-11 months	332.1	¹ -	¹ 442.5	1,102.0	519.3	473.0	218.5	315.4	497.2

¹ The rate is based on fewer than 20 deaths, but more than 100 survivors.

Table 9. Deaths under 1 year of age, by birth weight, plurality of birth, color, age of mother, and age at death: United States, 1960
live-birth cohort

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL BIRTHS										
<u>Total</u>										
Number of deaths under 1 year of age										
Mothers of all ages	107,038	22,359	15,225	12,789	12,709	14,950	16,400	9,083	2,647	876
Under 15 years	398	89	61	52	55	65	49	20	7	-
15-19 years	19,240	3,943	3,212	2,512	2,272	2,708	2,830	1,376	317	70
20-24 years	84,472	6,916	5,018	4,243	4,077	4,875	5,484	2,928	748	183
25-29 years	24,443	5,325	3,322	2,762	2,817	3,436	3,820	2,110	637	214
30-34 years	16,275	3,709	2,150	1,827	1,874	2,209	2,335	1,471	486	214
35-39 years	9,194	1,911	1,148	1,055	1,167	1,217	1,372	862	317	145
40-44 years	2,803	443	291	316	405	398	479	296	126	49
45 years and over	213	23	23	22	42	42	31	20	9	1
<u>White</u>										
Mothers of all ages	79,819	16,256	11,536	10,001	9,486	10,756	12,154	6,966	2,015	649
Under 15 years	120	23	15	20	16	21	17	6	2	-
15-19 years	12,861	2,502	2,232	1,842	1,482	1,659	1,879	990	229	46
20-24 years	26,162	5,050	3,843	3,340	3,112	3,594	4,151	2,322	611	139
25-29 years	18,818	4,014	2,597	2,208	2,189	2,582	2,911	1,659	493	165
30-34 years	12,466	2,792	1,688	1,463	1,447	1,659	1,784	1,112	356	165
35-39 years	7,033	1,500	904	844	906	906	1,016	635	224	98
40-44 years	2,195	356	238	263	301	304	372	229	96	36
45 years and over	164	19	19	21	33	31	24	13	4	-
<u>All other</u>										
Mothers of all ages	27,219	6,103	3,689	2,788	3,223	4,194	4,246	2,117	632	227
Under 15 years	278	66	46	32	39	44	32	14	5	-
15-19 years	6,379	1,441	980	670	790	1,049	951	386	88	24
20-24 years	8,310	1,866	1,175	903	965	1,281	1,333	606	137	44
25-29 years	5,625	1,311	725	554	628	854	909	451	144	49
30-34 years	3,809	917	462	365	427	550	551	359	130	49
35-39 years	2,166	411	244	211	261	311	356	227	93	47
40-44 years	608	87	53	53	104	94	107	67	30	13
45 years and over	49	4	4	1	9	11	7	7	5	1

Table 9. Deaths under 1 year of age, by birth weight, plurality of birth, color, age of mother, and age at death: United States, 1960 live-birth cohort—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL BIRTHS—Con.										
<u>Total</u>		Number of deaths under 28 days								
Mothers of all ages	78,330	22,202	14,474	11,179	9,010	7,817	7,581	4,149	1,341	577
Under 15 years	279	88	58	47	31	27	16	9	3	-
15-19 years	13,324	3,906	3,064	2,148	1,403	1,102	988	544	133	36
20-24 years	24,644	6,885	4,762	3,753	2,855	2,407	2,358	1,159	351	114
25-29 years	18,109	5,289	3,154	2,412	2,073	1,896	1,862	974	313	136
30-34 years	12,601	3,679	2,065	1,602	1,435	1,355	1,281	779	259	146
35-39 years	7,093	1,891	1,071	921	887	750	771	494	202	106
40-44 years	2,118	441	278	276	293	256	285	176	75	38
45 years and over	162	23	22	20	33	24	20	14	5	1
<u>White</u>										
Mothers of all ages	60,773	16,166	11,124	9,064	7,341	6,253	6,016	3,328	1,036	445
Under 15 years	81	23	15	17	11	9	3	3	-	-
15-19 years	9,338	2,482	2,160	1,664	1,052	760	691	406	95	28
20-24 years	19,400	5,035	3,704	3,044	2,368	1,984	1,909	976	292	88
25-29 years	14,457	3,990	2,491	1,998	1,724	1,581	1,505	815	243	110
30-34 years	9,983	2,776	1,648	1,325	1,181	1,104	1,038	601	194	116
35-39 years	5,661	1,486	859	761	741	592	622	374	150	76
40-44 years	1,719	355	229	235	237	204	231	142	59	27
45 years and over	134	19	18	20	27	19	17	11	3	-
<u>All other</u>										
Mothers of all ages	17,557	6,036	3,350	2,115	1,669	1,564	1,565	821	305	132
Under 15 years	198	65	43	30	20	18	13	6	3	-
15-19 years	3,986	1,424	904	484	351	342	297	138	38	8
20-24 years	5,244	1,850	1,058	709	487	423	449	183	59	26
25-29 years	3,652	1,299	663	414	349	315	357	159	70	26
30-34 years	2,618	903	417	277	254	251	243	178	65	30
35-39 years	1,432	405	212	160	146	158	149	120	52	30
40-44 years	399	86	49	41	56	52	54	34	16	11
45 years and over	28	4	4	-	6	5	3	3	2	1

Table 9. Deaths under 1 year of age, by birth weight, plurality of birth, color, age of mother, and age at death: United States, 1960 live-birth cohort—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL BIRTHS—Con.										
<u>Total</u>										
Number of deaths at 28 days-11 months										
Mothers of all ages	28,708	157	751	1,610	3,699	7,133	8,819	4,934	1,306	299
Under 15 years	119	1	3	5	24	38	33	11	4	-
15-19 years	5,916	37	148	364	869	1,606	1,842	832	184	34
20-24 years	9,828	31	256	490	1,222	2,468	3,126	1,769	397	69
25-29 years	6,334	36	168	350	744	1,540	1,958	1,136	324	78
30-34 years	3,674	30	85	225	439	854	1,054	692	227	68
35-39 years	2,101	20	77	134	280	467	601	368	115	39
40-44 years	685	2	13	40	112	142	194	120	51	11
45 years and over	51	-	1	2	9	18	11	6	4	-
<u>White</u>										
Mothers of all ages	19,046	90	412	937	2,145	4,503	6,138	3,638	979	204
Under 15 years	39	-	-	3	5	12	14	3	2	-
15-19 years	3,523	20	72	178	430	899	1,188	584	134	18
20-24 years	6,762	15	139	296	744	1,610	2,242	1,346	319	51
25-29 years	4,361	24	106	210	465	1,001	1,406	844	250	55
30-34 years	2,483	16	40	138	266	555	746	511	162	49
35-39 years	1,372	14	45	83	165	314	394	261	74	22
40-44 years	476	1	9	28	64	100	141	87	37	9
45 years and over	30	-	1	1	6	12	7	2	1	-
<u>All other</u>										
Mothers of all ages	9,662	67	339	673	1,554	2,630	2,681	1,296	327	95
Under 15 years	80	1	3	2	19	26	19	8	2	-
15-29 years	2,393	17	76	186	439	707	654	248	50	16
20-24 years	3,066	16	117	194	478	858	884	423	78	18
25-29 years	1,973	12	62	140	279	539	552	292	74	23
30-34 years	1,191	14	45	87	173	299	308	181	65	19
35-39 years	729	6	32	51	115	153	207	107	41	17
40-44 years	209	1	4	12	48	42	53	33	14	2
45 years and over	21	-	-	1	3	6	4	4	3	-

Table 9. Deaths under 1 year of age, by birth weight, plurality of birth, color, age of mother, and age at death: United States, 1960 live-birth cohort—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
SINGLE BIRTHS										
<u>Total</u>										
Number of deaths under 1 year of age										
Mothers of all ages	96,986	18,277	12,694	11,097	11,703	14,447	16,207	9,046	2,641	874
Under 15 years	381	77	59	50	54	65	49	20	7	-
15-19 years	17,724	3,261	2,787	2,303	2,141	2,656	2,815	1,374	317	70
20-24 years	31,211	5,575	4,181	3,701	3,756	4,730	5,427	2,914	744	183
25-29 years	22,071	4,418	2,707	2,352	2,574	3,305	3,765	2,101	637	212
30-34 years	14,532	3,019	1,730	1,516	1,702	2,098	2,301	1,467	485	214
35-39 years	8,256	1,543	962	879	1,051	1,165	1,341	854	316	145
40-44 years	2,607	363	247	277	385	386	478	296	126	49
45 years and over	204	21	21	19	40	42	31	20	9	1
<u>White</u>										
Mothers of all ages	72,382	13,221	9,591	8,717	8,802	10,428	12,025	6,941	2,010	647
Under 15 years	113	17	14	20	16	21	17	6	2	-
15-19 years	11,782	2,032	1,905	1,684	1,398	1,629	1,870	989	229	46
20-24 years	23,725	4,026	3,212	2,936	2,885	3,491	4,115	2,314	607	139
25-29 years	17,042	3,325	2,121	1,904	2,020	2,497	2,867	1,652	493	163
30-34 years	11,161	2,285	1,361	1,212	1,326	1,585	1,763	1,108	356	165
35-39 years	6,355	1,222	758	714	836	877	997	630	223	98
40-44 years	2,049	297	203	229	290	297	372	229	93	36
45 years and over	155	17	17	18	31	31	24	13	4	-
<u>All other</u>										
Mothers of all ages	24,604	5,056	3,103	2,380	2,901	4,019	4,182	2,105	631	227
Under 15 years	268	60	45	30	38	44	32	14	5	-
15-19 years	5,942	1,229	882	619	743	1,027	945	385	88	24
20-24 years	7,486	1,549	969	765	871	1,239	1,312	600	137	44
25-29 years	5,029	1,093	586	448	554	808	898	449	144	49
30-34 years	3,371	734	369	304	376	513	538	359	129	49
35-39 years	1,901	321	204	165	215	288	344	224	93	47
40-44 years	558	66	44	48	95	89	106	67	30	13
45 years and over	49	4	4	1	9	11	7	7	5	1

Table 9. Deaths under 1 year of age, by birth weight, plurality of birth, color, age of mother, and age at death: United States, 1960 live-birth cohort—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
<u>SINGLE BIRTHS—Con.</u>										
<u>Total</u>										
Number of deaths under 28 days										
Mothers of all ages	69,613	18,145	12,097	9,806	8,424	7,596	7,497	4,134	1,339	575
Under 15 years	263	77	56	45	30	27	16	9	3	-
15-19 years	11,982	3,227	2,664	1,980	1,335	1,081	983	543	133	36
20-24 years	21,811	5,549	3,978	3,305	2,670	2,353	2,338	1,155	349	114
25-29 years	16,068	4,388	2,571	2,083	1,939	1,841	1,830	969	313	134
30-34 years	11,092	2,996	1,669	1,357	1,325	1,292	1,272	776	259	146
35-39 years	6,299	1,526	901	778	815	725	754	492	202	106
40-44 years	1,944	361	238	241	278	253	284	176	75	38
45 years and over	154	21	20	17	32	24	20	14	5	1
<u>White</u>										
Mothers of all ages	54,109	13,148	9,270	7,965	6,887	6,097	5,950	3,315	1,034	443
Under 15 years	74	17	14	17	11	9	3	3	-	-
15-19 years	8,348	2,014	1,848	1,526	999	746	687	405	95	28
20-24 years	17,211	4,013	3,104	2,691	2,218	1,941	1,893	973	290	88
25-29 years	12,887	3,307	2,033	1,745	1,620	1,543	1,478	810	243	108
30-34 years	8,821	2,273	1,333	1,119	1,097	1,060	1,031	598	194	116
35-39 years	5,055	1,211	724	646	688	577	610	373	150	76
40-44 years	1,587	296	198	204	228	202	231	142	59	27
45 years and over	126	17	16	17	26	19	17	11	3	-
<u>All other</u>										
Mothers of all ages	15,504	4,997	2,827	1,841	1,537	1,499	1,547	819	305	132
Under 15 years	189	60	42	28	19	18	13	6	3	-
15-19 years	3,634	1,213	816	454	336	335	296	138	38	8
20-24 years	4,600	1,536	874	614	452	412	445	182	59	26
25-29 years	3,181	1,081	538	338	319	298	352	159	70	26
30-34 years	2,271	723	336	238	228	232	241	178	65	30
35-39 years	1,244	315	177	132	127	148	144	119	52	30
40-44 years	357	65	40	37	50	51	53	34	16	11
45 years and over	28	4	4	-	6	5	3	3	2	1

Table 9. Deaths under 1 year of age, by birth weight, plurality of birth, color, age of mother, and age at death: United States, 1960 live-birth cohort—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
<u>SINGLE BIRTHS—Con.</u>										
<u>Total</u>										
Number of deaths at 28 days-11 months										
Mothers of all ages	27,373	132	597	1,291	3,279	6,851	8,710	4,912	1,302	299
Under 15 years	118	-	3	5	24	38	33	11	4	-
15-19 years	5,742	34	123	323	806	1,575	1,832	831	184	34
20-24 years	9,400	26	203	396	1,086	2,377	3,089	1,759	395	69
25-29 years	6,003	30	136	269	635	1,464	1,935	1,132	324	78
30-34 years	3,440	23	61	159	377	806	1,029	691	226	68
35-39 years	1,957	17	61	101	236	440	587	362	114	39
40-44 years	663	2	9	36	107	133	194	120	51	11
45 years and over	50	-	1	2	8	18	11	6	4	-
<u>White</u>										
Mothers of all ages	18,273	73	321	752	1,915	4,331	6,075	3,626	976	204
Under 15 years	39	-	-	3	5	12	14	3	2	-
15-19 years	3,434	18	57	158	399	883	1,183	584	134	18
20-24 years	6,514	13	108	245	667	1,550	2,222	1,341	317	51
25-29 years	4,155	18	88	159	400	954	1,389	842	250	55
30-34 years	2,340	12	28	93	229	525	732	510	162	49
35-39 years	1,300	11	34	68	148	300	397	257	73	22
40-44 years	462	1	5	25	62	95	141	87	37	9
45 years and over	29	-	1	1	5	12	7	2	1	-
<u>All other</u>										
Mothers of all ages	9,100	59	276	539	1,364	2,520	2,635	1,286	326	95
Under 15 years	79	-	3	2	19	26	19	8	2	-
15-19 years	2,308	16	66	165	407	692	649	247	50	16
20-24 years	2,886	13	95	151	419	827	867	418	78	18
25-29 years	1,848	12	48	110	235	510	546	290	74	23
30-34 years	1,100	11	33	66	148	281	297	181	64	19
35-39 years	657	6	27	33	88	140	200	105	41	17
40-44 years	201	1	4	11	45	38	53	33	14	2
45 years and over	21	-	-	1	3	6	4	4	3	-

Table 9. Deaths under 1 year of age, by birth weight, plurality of birth, color, age of mother, and age at death: United States, 1960 live-birth cohort—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
PLURAL BIRTHS										
<u>Total</u>										
Number of deaths under 1 year of age										
Mothers of all ages	10,052	4,082	2,531	1,692	1,006	503	193	37	6	2
Under 15 years	17	12	2	2	1	-	-	-	-	-
15-19 years	1,516	682	425	209	131	52	15	2	-	-
20-24 years	3,261	1,341	837	542	321	145	57	14	4	-
25-29 years	2,372	907	615	410	243	131	55	9	-	2
30-34 years	1,743	690	420	311	172	111	34	4	1	-
35-39 years	938	368	186	176	116	52	31	8	1	-
40-44 years	196	80	44	39	20	12	1	-	-	-
45 years and over	9	2	2	3	2	-	-	-	-	-
<u>White</u>										
Mothers of all ages	7,437	3,035	1,945	1,284	684	328	129	25	5	2
Under 15 years	7	6	1	-	-	-	-	-	-	-
15-19 years	1,079	470	327	158	84	30	9	1	-	-
20-24 years	2,437	1,024	631	404	227	103	36	8	4	-
25-29 years	1,776	689	476	304	169	85	44	7	-	2
30-34 years	1,305	507	327	251	121	74	21	4	1	-
35-39 years	678	278	146	130	70	29	19	5	1	-
40-44 years	146	59	35	34	11	7	-	-	-	-
45 years and over	9	2	2	3	2	-	-	-	-	-
<u>All other</u>										
Mothers of all ages	2,615	1,047	586	408	322	175	64	12	1	-
Under 15 years	10	6	1	2	1	-	-	-	-	-
15-19 years	437	212	98	51	47	22	6	1	-	-
20-24 years	824	317	206	138	94	42	21	6	-	-
25-29 years	596	218	139	106	74	46	11	2	-	-
30-34 years	438	183	93	60	51	37	13	-	1	-
35-39 years	260	90	40	46	46	23	12	3	-	-
40-44 years	50	21	9	5	9	5	1	-	-	-
45 years and over	-	-	-	-	-	-	-	-	-	-

Table 9. Deaths under 1 year of age, by birth weight, plurality of birth, color, age of mother, and age at death: United States, 1960 live-birth cohort—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
PLURAL BIRTHS—Con.										
<u>Total</u>										
Number of deaths under 28 days										
Mothers of all ages	8,717	4,057	2,377	1,373	586	221	84	15	2	2
Under 15 years	16	11	2	2	1	-	-	-	-	-
15-19 years	1,342	679	400	168	68	21	5	1	-	-
20-24 years	2,833	1,336	784	448	185	54	20	4	2	-
25-29 years	2,041	901	583	329	134	55	32	5	-	2
30-34 years	1,509	683	396	245	110	63	9	3	-	-
35-39 years	794	365	170	143	72	25	17	2	-	-
40-44 years	174	80	40	35	15	3	1	-	-	-
45 years and over	8	2	2	3	1	-	-	-	-	-
<u>White</u>										
Mothers of all ages	6,664	3,018	1,854	1,099	454	156	66	13	2	2
Under 15 years	7	6	1	-	-	-	-	-	-	-
15-19 years	990	468	312	138	53	14	4	1	-	-
20-24 years	2,189	1,022	600	353	150	43	16	3	2	-
25-29 years	1,570	683	458	253	104	38	27	5	-	2
30-34 years	1,162	503	315	206	84	44	7	3	-	-
35-39 years	606	275	135	115	53	15	12	1	-	-
40-44 years	132	59	31	31	9	2	-	-	-	-
45 years and over	8	2	2	3	1	-	-	-	-	-
<u>All other</u>										
Mothers of all ages	2,053	1,039	523	274	132	65	18	2	-	-
Under 15 years	9	5	1	2	1	-	-	-	-	-
15-19 years	352	211	88	30	15	7	1	-	-	-
20-24 years	644	314	184	95	35	11	4	1	-	-
25-29 years	471	218	125	76	30	17	5	-	-	-
30-34 years	347	180	81	39	26	19	2	-	-	-
35-39 years	188	90	35	28	19	10	5	1	-	-
40-44 years	42	21	9	4	6	1	1	-	-	-
45 years and over	-	-	-	-	-	-	-	-	-	-

Table 9. Deaths under 1 year of age, by birth weight, plurality of birth, color, age of mother, and age at death: United States, 1960 live-birth cohort—Con.

Plurality of birth, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
PLURAL BIRTHS—Con.										
<u>Total</u>										
Number of deaths at 28 days-11 months										
Mothers of all ages	1,335	25	154	319	420	282	109	22	4	-
Under 15 years	1	1	-	-	-	-	-	-	-	-
15-19 years	174	3	25	41	63	31	10	1	-	-
20-24 years	428	5	53	94	136	91	37	10	2	-
25-29 years	331	6	32	81	109	76	23	4	-	-
30-34 years	234	7	24	66	62	48	25	1	1	-
35-39 years	144	3	16	33	44	27	14	6	1	-
40-44 years	22	-	4	4	5	9	-	-	-	-
45 years and over	1	-	-	-	1	-	-	-	-	-
<u>White</u>										
Mothers of all ages	773	17	91	185	230	172	63	12	3	-
Under 15 years	-	-	-	-	-	-	-	-	-	-
15-19 years	89	2	15	20	31	16	5	-	-	-
20-24 years	248	2	31	51	77	60	20	5	2	-
25-29 years	206	6	18	51	65	47	17	2	-	-
30-34 years	143	4	12	45	37	30	14	1	-	-
35-39 years	72	3	11	15	17	14	7	4	1	-
40-44 years	14	-	4	3	2	5	-	-	-	-
45 years and over	1	-	-	-	1	-	-	-	-	-
<u>All other</u>										
Mothers of all ages	562	8	63	134	190	110	46	10	1	-
Under 15 years	1	1	-	-	-	-	-	-	-	-
15-19 years	85	1	10	21	32	15	5	1	-	-
20-24 years	180	3	22	43	59	31	17	5	-	-
25-29 years	125	-	14	30	44	29	6	2	-	-
30-34 years	91	3	12	21	25	18	11	-	1	-
35-39 years	72	-	5	18	27	13	7	2	-	-
40-44 years	8	-	-	1	3	4	-	-	-	-
45 years and over	-	-	-	-	-	-	-	-	-	-

Table 10. Infant mortality rates per 100,000 live births, by birth weight, age of mother, plurality, color, and age at death: United States, 1960 live-birth cohort—Con.

Age at death, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
28 DAYS-11 MONTHS OF AGE		Rates per 100,000 live plural births								
Total										
Mothers of all ages	1,540.1	585.6	3,195.7	2,626.2	1,649.3	1,105.4	908.2	995.5	¹ 1,785.7	-
Under 15 years	² 1,666.7	² 6,250.0	-	-	-	-	-	-	-	-
15-19 years	2,364.8	¹ 407.1	3,617.9	2,789.1	2,822.6	1,972.0	¹ 1,811.6	² 1,111.1	-	-
20-24 years	1,774.6	¹ 359.7	3,457.3	2,562.0	1,896.5	1,305.6	1,290.1	¹ 2,178.6	² 3,846.2	-
25-29 years	1,395.6	¹ 630.3	2,709.6	2,604.5	1,573.6	1,044.8	643.5	¹ 613.5	-	-
30-34 years	1,265.5	¹ 992.9	2,784.2	2,959.6	1,146.0	836.5	859.7	¹ 180.2	² 1,351.4	-
35-39 years	1,344.3	¹ 787.4	¹ 3,539.8	2,439.0	1,447.4	821.2	¹ 789.2	¹ 1,578.9	² 2,777.8	-
40-44 years	1,018.5	-	² 4,347.8	¹ 1,379.3	¹ 784.9	¹ 1,391.0	-	-	-	-
45 years and over	² 1,470.6	-	-	-	² 3,703.7	-	-	-	-	-
White										
Mothers of all ages	1,114.1	¹ 540.0	2,561.9	2,000.0	1,140.0	818.1	622.1	¹ 638.3	¹ 1,562.5	-
Under 15 years	-	-	-	-	-	-	-	-	-	-
15-19 years	1,634.8	¹ 394.5	¹ 2,901.4	1,893.9	1,908.9	¹ 1,344.5	¹ 1,082.3	-	-	-
20-24 years	1,273.6	¹ 189.9	2,767.9	1,804.0	1,341.7	1,030.2	809.1	¹ 1,285.3	² 4,545.5	-
25-29 years	1,072.5	¹ 838.0	¹ 2,085.7	2,142.9	1,166.8	778.0	¹ 560.5	¹ 355.9	-	-
30-34 years	961.2	¹ 785.9	¹ 1,869.2	2,650.2	853.5	639.1	¹ 572.6	¹ 208.8	-	-
35-39 years	840.7	¹ 1,016.9	¹ 3,353.7	¹ 1,446.5	¹ 718.2	¹ 514.0	¹ 480.4	¹ 1,242.2	² 3,846.2	-
40-44 years	¹ 801.8	-	² 5,263.2	¹ 1,260.5	¹ 387.6	¹ 936.3	-	-	-	-
45 years and over	² 2,173.9	-	-	-	² 6,666.7	-	-	-	-	-
All other										
Mothers of all ages	3,248.2	¹ 713.6	4,972.4	4,625.5	3,591.7	2,452.1	2,453.3	¹ 3,030.3	² 3,125.0	-
Under 15 years	² 2,777.8	² 10,000.0	-	-	-	-	-	-	-	-
15-19 years	4,441.0	¹ 434.8	¹ 5,747.1	5,072.5	5,263.2	¹ 3,926.7	² 5,555.6	² 7,142.9	-	-
20-24 years	3,874.3	¹ 890.2	5,326.9	5,106.9	4,120.1	2,705.1	¹ 4,292.9	² 7,142.9	-	-
25-29 years	2,771.6	-	¹ 4,402.5	4,109.6	3,244.8	2,352.0	¹ 1,109.1	² 2,222.2	-	-
30-34 years	2,519.4	¹ 1,530.6	¹ 5,454.5	3,947.4	2,325.6	¹ 1,724.1	¹ 2,375.8	-	² 25,000.0	-
35-39 years	3,352.0	-	¹ 4,032.3	¹ 5,696.2	4,011.9	¹ 2,305.0	¹ 2,208.2	² 3,448.3	-	-
40-44 years	¹ 1,932.4	-	-	² 1,923.1	¹ 2,479.3	¹ 3,539.8	-	-	-	-
45 years and over	-	-	-	-	-	-	-	-	-	-

¹ Rate calculated with frequencies indicating fewer than 20 deaths and more than 100 live births.

² Rate calculated with frequencies indicating fewer than 20 deaths and fewer than 100 live births.

³ Due to sampling variability, more deaths than births were counted in this cell.

Table 1. Births and survivors to 28 days, by birth weight, plurality, color, and age of mother: United States, 1960 live-birth cohort

Color and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
TOTAL										
<u>Live births</u>										
All live births										
Mothers of all ages	4,257,850	24,323	27,756	61,905	217,436	787,037	1,616,543	1,139,043	317,813	65,994
Under 15 years	6,780	114	136	199	648	1,969	2,510	1,000	174	30
15-19 years	586,966	4,391	5,475	11,578	37,417	125,347	231,697	136,840	29,953	4,268
20-24 years	1,426,912	7,583	8,864	19,558	70,553	272,849	563,508	374,708	93,747	15,542
25-29 years	1,092,816	5,667	6,157	13,694	50,838	194,656	415,265	302,992	85,802	17,745
30-34 years	687,722	4,023	4,132	9,611	33,921	117,392	247,869	193,751	61,861	15,162
35-39 years	359,908	2,042	2,331	5,665	18,676	59,163	123,852	102,518	35,700	9,961
40-44 years	91,564	473	615	1,501	5,054	14,873	30,129	25,802	10,009	3,108
45 years and over	5,182	30	46	99	329	788	1,713	1,432	567	178
Survivors to 28 days										
Mothers of all ages	4,179,520	2,121	13,282	50,726	208,426	779,220	1,608,962	1,134,894	316,472	65,417
Under 15 years	6,501	26	78	152	617	1,942	2,494	991	171	30
15-19 years	573,642	485	2,411	9,430	36,014	124,245	230,709	136,296	29,820	4,232
20-24 years	1,402,268	698	4,102	15,805	67,698	270,442	561,150	373,549	93,396	15,428
25-29 years	1,074,707	378	3,003	11,282	48,765	192,760	413,403	302,018	85,489	17,609
30-34 years	675,121	344	2,067	8,009	32,486	116,037	246,588	192,972	61,602	15,016
35-39 years	352,815	151	1,260	4,744	17,789	58,413	123,081	102,024	35,498	9,855
40-44 years	89,446	32	337	1,225	4,761	14,617	29,844	25,626	9,934	3,070
45 years and over	5,020	7	24	79	296	764	1,693	1,418	562	177
WHITE										
All live births										
Mothers of all ages	3,600,744	17,493	20,040	45,676	163,131	621,089	1,372,850	1,014,875	287,680	57,910
Under 15 years	2,524	25	36	66	163	575	1,005	539	105	10
15-19 years	458,130	2,746	3,548	7,620	24,238	87,055	183,931	118,608	26,795	3,589
20-24 years	1,219,962	5,514	6,503	14,620	53,644	217,885	483,857	337,915	86,038	13,986
25-29 years	942,112	4,216	4,537	10,413	39,704	158,969	358,479	271,863	78,057	15,874
30-34 years	588,402	3,002	3,086	7,284	26,415	95,698	212,376	171,802	55,524	13,215
35-39 years	307,426	1,588	1,797	4,397	14,676	48,200	106,015	90,415	31,841	8,497
40-44 years	77,976	378	499	1,197	4,055	12,104	25,771	22,527	8,843	2,602
45 years and over	4,212	24	34	79	236	603	1,416	1,206	477	137
Survivors to 28 days										
Mothers of all ages	3,539,971	1,327	8,916	36,612	155,790	614,836	1,366,834	1,011,547	286,644	57,465
Under 15 years	2,443	2	21	49	152	566	1,002	536	105	10
15-19 years	448,792	264	1,388	5,956	23,186	86,295	183,240	118,202	26,700	3,561
20-24 years	1,200,562	479	2,799	11,576	51,276	215,901	481,948	336,939	85,746	13,898
25-29 years	927,655	226	2,046	8,415	37,980	157,388	356,974	271,048	77,814	15,764
30-34 years	578,419	226	1,438	5,959	25,234	94,594	211,338	171,201	55,330	13,099
35-39 years	301,765	102	938	3,636	13,935	47,608	105,393	90,041	31,691	8,421
40-44 years	76,257	23	270	962	3,818	11,900	25,540	22,385	8,784	2,575
45 years and over	4,078	5	16	59	209	584	1,399	1,195	474	137

Table 11. Births and survivors to 28 days, by birth weight, plurality, color, and age of mother: United States, 1960 live-birth cohort—Con.

Color and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL OTHER										
All live births										
Mothers of all ages	657,106	6,830	7,716	16,229	54,305	165,948	243,693	124,168	30,133	8,084
Under 15 years	4,256	89	100	133	485	1,394	1,505	461	69	20
15-19 years	128,836	1,645	1,927	3,958	13,179	38,292	47,766	18,232	3,158	679
20-24 years	206,950	2,069	2,361	4,938	16,909	54,964	79,651	36,793	7,709	1,556
25-29 years	150,704	1,451	1,620	3,281	11,134	35,687	56,786	31,129	7,745	1,871
30-34 years	99,320	1,021	1,046	2,327	7,506	21,694	35,493	21,949	6,337	1,947
35-39 years	52,482	454	534	1,268	4,000	10,963	17,837	12,103	3,859	1,464
40-44 years	13,588	95	116	304	999	2,769	4,358	3,275	1,166	506
45 years and over	970	6	12	20	93	185	297	226	90	41
Survivors to 28 days										
Mothers of all ages	639,549	794	4,366	14,114	52,636	164,384	242,128	123,347	29,828	7,952
Under 15 years	4,058	24	57	103	465	1,376	1,492	455	66	20
15-19 years	124,850	221	1,023	3,474	12,828	37,950	47,469	18,094	3,120	671
20-24 years	201,706	219	1,303	4,229	16,422	54,541	79,202	36,610	7,650	1,530
25-29 years	147,052	152	957	2,867	10,785	35,372	56,429	30,970	7,675	1,845
30-34 years	96,702	118	629	2,050	7,252	21,443	35,250	21,771	6,272	1,917
35-39 years	51,050	49	322	1,108	3,854	10,805	17,688	11,983	3,807	1,434
40-44 years	13,189	9	67	263	943	2,717	4,304	3,241	1,150	495
45 years and over	942	2	8	20	87	180	294	223	88	40
TOTAL										
All live single births										
Mothers of all ages	4,171,166	20,054	22,937	49,758	191,971	761,527	1,604,541	1,136,833	317,589	65,956
Under 15 years	6,720	98	132	184	627	1,965	2,510	1,000	174	30
15-19 years	579,608	3,654	4,784	10,108	35,185	123,775	231,145	136,750	29,943	4,264
20-24 years	1,402,794	6,193	7,331	15,889	63,382	265,879	560,640	374,249	93,695	15,536
25-29 years	1,069,098	4,715	4,976	10,584	43,911	187,382	411,691	302,340	85,766	17,733
30-34 years	669,232	3,318	3,270	7,381	28,511	111,654	244,961	193,196	61,787	15,154
35-39 years	349,196	1,661	1,879	4,312	15,636	55,875	122,078	102,138	35,664	9,953
40-44 years	89,404	387	523	1,211	4,417	14,226	29,809	25,730	9,993	3,108
45 years and over	5,114	28	42	89	302	771	1,707	1,430	567	178
Survivors to 28 days										
Mothers of all ages	4,101,553	1,909	10,840	39,952	183,547	753,931	1,597,044	1,132,699	316,250	65,381
Under 15 years	6,457	21	76	139	597	1,938	2,494	991	171	30
15-19 years	567,626	427	2,120	8,128	33,850	122,694	230,162	136,207	29,810	4,228
20-24 years	1,380,983	644	3,353	12,584	60,712	263,526	558,302	373,094	93,346	15,422
25-29 years	1,053,030	327	2,405	8,501	41,972	185,541	409,861	301,371	85,453	17,599
30-34 years	658,140	322	1,601	6,024	27,186	110,362	243,689	192,420	61,528	15,008
35-39 years	342,897	135	978	3,534	14,821	55,150	121,324	101,646	35,462	9,847
40-44 years	87,460	26	285	970	4,139	13,973	29,525	25,554	9,918	3,070
45 years and over	4,960	7	22	72	270	747	1,687	1,416	562	177

Table 11. Births and survivors to 28 days, by birth weight, plurality, color, and age of mother: United States, 1960 live-birth cohort—Con.

Color and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
WHITE										
All live single births										
Mothers of all ages	3,531,362	14,345	16,488	36,426	142,956	600,065	1,362,723	1,012,995	287,488	57,876
Under 15 years	2,500	19	34	62	155	571	1,005	539	105	10
15-19 years	452,686	2,239	3,031	6,564	22,614	85,865	183,469	118,532	26,787	3,585
20-24 years	1,200,490	4,461	5,383	11,793	47,905	212,061	481,385	337,526	85,994	13,982
25-29 years	922,904	3,500	3,674	8,033	34,133	152,928	355,446	271,301	78,027	15,862
30-34 years	573,524	2,493	2,444	5,586	22,080	91,004	209,931	171,323	55,454	13,209
35-39 years	298,862	1,293	1,469	3,360	12,309	45,476	104,558	90,093	31,815	8,489
40-44 years	76,230	316	423	959	3,539	11,570	25,515	22,477	8,829	2,602
45 years and over	4,166	24	30	69	221	590	1,414	1,204	477	137
Survivors to 28 days										
Mothers of all ages	3,477,253	1,197	7,218	28,461	136,069	593,968	1,356,773	1,009,680	286,454	57,433
Under 15 years	2,426	2	20	45	144	562	1,002	536	105	10
15-19 years	444,338	225	1,183	5,038	21,615	85,119	182,782	118,127	26,692	3,557
20-24 years	1,183,279	448	2,279	9,102	45,687	210,120	479,492	336,553	85,704	13,894
25-29 years	910,017	193	1,641	6,288	32,513	151,385	353,968	270,491	77,784	15,754
30-34 years	564,703	220	1,111	4,467	20,983	89,944	208,900	170,725	55,260	13,093
35-39 years	293,807	82	745	2,714	11,621	44,899	103,948	89,720	31,665	8,413
40-44 years	74,643	20	225	755	3,311	11,368	25,284	22,335	8,770	2,575
45 years and over	4,040	7	14	52	195	571	1,397	1,193	474	137
ALL OTHER										
All live single births										
Mothers of all ages	639,804	5,709	6,449	13,332	49,015	161,462	241,818	123,838	30,101	8,080
Under 15 years	4,220	79	98	122	472	1,394	1,505	461	69	20
15-19 years	126,922	1,415	1,753	3,544	12,571	37,910	47,676	18,218	3,156	679
20-24 years	202,304	1,732	1,948	4,096	15,477	53,818	79,255	36,723	7,701	1,554
25-29 years	146,194	1,215	1,302	2,551	9,778	34,454	56,245	31,039	7,739	1,871
30-34 years	95,708	825	826	1,795	6,431	20,650	35,030	21,873	6,333	1,945
35-39 years	50,334	368	410	952	3,327	10,399	17,520	12,045	3,849	1,464
40-44 years	13,174	71	100	252	878	2,656	4,294	3,253	1,164	506
45 years and over	948	4	12	20	81	181	293	226	90	41
Survivors to 28 days										
Mothers of all ages	624,300	712	3,622	11,491	47,478	159,963	240,271	123,019	29,796	7,948
Under 15 years	4,031	19	56	94	453	1,376	1,492	455	66	20
15-19 years	123,288	202	937	3,090	12,235	37,575	47,380	18,080	3,118	671
20-24 years	197,704	196	1,074	3,482	15,025	53,406	78,810	36,541	7,642	1,528
25-29 years	143,013	134	764	2,213	9,459	34,156	55,893	30,880	7,669	1,845
30-34 years	93,437	102	490	1,557	6,203	20,418	34,789	21,695	6,268	1,915
35-39 years	49,090	53	233	820	3,200	10,251	17,376	11,926	3,797	1,434
40-44 years	12,817	6	60	215	828	2,605	4,241	3,219	1,148	495
45 years and over	920	-	8	20	75	176	290	223	88	40

Table 11. Births and survivors to 28 days, by birth weight, plurality, color, and age of mother: United States, 1960 live-birth cohort—Con.

Color and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
TOTAL		All live plural births								
Mothers of all ages	86,684	4,269	4,819	12,147	25,465	25,510	12,002	2,210	224	38
Under 15 years	60	16	4	15	21	4	-	-	-	-
15-19 years	7,358	737	691	1,470	2,232	1,572	552	90	10	4
20-24 years	24,118	1,390	1,533	3,669	7,171	6,970	2,868	459	52	6
25-29 years	23,718	952	1,181	3,110	6,927	7,274	3,574	652	36	12
30-34 years	18,490	705	862	2,230	5,410	5,738	2,908	555	74	8
35-39 years	10,712	381	452	1,353	3,040	3,288	1,774	380	36	8
40-44 years	2,160	86	92	290	637	647	320	72	16	-
45 years and over	68	2	4	10	27	17	6	2	-	-
		Survivors to 28 days								
Mothers of all ages	77,967	212	2,442	10,774	24,879	25,289	11,918	2,195	222	36
Under 15 years	44	5	2	13	20	4	-	-	-	-
15-19 years	6,016	58	291	1,302	2,164	1,551	547	89	10	4
20-24 years	21,285	54	749	3,221	6,986	6,916	2,848	455	50	6
25-29 years	21,677	51	598	2,781	6,793	7,219	3,542	647	36	10
30-34 years	16,981	22	466	1,985	5,300	5,675	2,899	552	74	8
35-39 years	9,918	16	282	1,210	2,968	3,263	1,757	378	36	8
40-44 years	1,986	6	52	255	622	644	319	72	16	-
45 years and over	60	-	2	7	26	17	6	2	-	-
WHITE		All live plural births								
Mothers of all ages	69,382	3,148	3,552	9,250	20,175	21,024	10,127	1,880	192	34
Under 15 years	24	6	2	4	8	4	-	-	-	-
15-19 years	5,444	507	517	1,056	1,624	1,190	462	76	8	4
20-24 years	19,472	1,053	1,120	2,827	5,739	5,824	2,472	389	44	4
25-29 years	19,208	716	863	2,380	5,571	6,041	3,033	562	30	12
30-34 years	14,878	509	642	1,698	4,335	4,694	2,445	479	70	6
35-39 years	8,564	295	328	1,037	2,367	2,724	1,457	322	26	8
40-44 years	1,746	62	76	238	516	534	256	50	14	-
45 years and over	46	-	4	10	15	13	2	2	-	-
		Survivors to 28 days								
Mothers of all ages	62,718	130	1,698	8,151	19,721	20,868	10,061	1,867	190	32
Under 15 years	17	-	1	4	8	4	-	-	-	-
15-19 years	4,454	39	205	918	1,571	1,176	458	75	8	4
20-24 years	17,283	31	520	2,474	5,589	5,781	2,456	386	42	4
25-29 years	17,638	33	405	2,127	5,467	6,003	3,006	557	30	10
30-34 years	13,716	6	327	1,492	4,251	4,650	2,438	476	70	6
35-39 years	7,958	20	193	922	2,314	2,709	1,445	321	26	8
40-44 years	1,614	3	45	207	507	532	256	50	14	-
45 years and over	38	(¹)	2	7	14	13	2	2	-	-

See footnote at end of table.

Table 11. Births and survivors to 28 days, by birth weight, plurality, color, and age of mother: United States, 1960 live-birth cohort—Con.

Color and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL OTHER		All live plural births								
Mothers of all ages	17,302	1,121	1,267	2,897	5,290	4,486	1,875	330	32	4
Under 15 years	36	10	2	11	13	-	-	-	-	-
15-19 years	1,914	230	174	414	608	382	90	14	2	-
20-24 years	4,646	337	413	842	1,432	1,146	396	70	8	2
25-29 years	4,510	236	318	730	1,356	1,233	541	90	6	-
30-34 years	3,612	196	220	532	1,075	1,044	463	76	4	2
35-39 years	2,148	86	124	316	673	564	317	58	10	-
40-44 years	414	24	16	52	121	113	64	22	2	-
45 years and over	22	2	-	-	12	4	4	-	-	-
		Survivors to 28 days								
Mothers of all ages	15,249	82	744	2,623	5,158	4,421	1,857	328	32	4
Under 15 years	27	5	1	9	12	-	-	-	-	-
15-19 years	1,562	19	86	384	593	375	89	14	2	-
20-24 years	4,002	23	229	747	1,397	1,135	392	69	8	2
25-29 years	4,039	18	193	654	1,326	1,216	536	90	6	-
30-34 years	3,265	16	139	493	1,049	1,025	461	76	4	2
35-39 years	1,960	(¹)	89	288	654	554	312	57	10	-
40-44 years	372	3	7	48	115	112	63	22	2	-
45 years and over	22	2	-	-	12	4	4	-	-	-

¹ Due to sampling variability, there were more deaths than births counted in this cell and the number of survivors was therefore less than zero.

Table 12. Probabilities of dying at ages 28 days-11 months per 100,000 survivors, by birth weight, plurality, color, and age of mother: United States, 1960 live-birth cohort

Plurality, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL BIRTHS										
<u>Total</u>										
Probability of dying per 100,000 survivors										
Mothers of all ages	686.9	7,402.2	5,654.3	3,173.9	1,774.7	915.4	548.1	434.8	412.7	457.1
Under 15 years	1,830.5	¹ 3,846.2	¹ 3,846.2	² 3,289.5	3,889.8	1,956.7	1,323.2	² 1,110.0	² 2,339.2	-
15-19 years	1,031.3	7,628.9	6,138.5	3,860.0	2,413.0	1,292.6	798.4	610.4	617.0	803.4
20-24 years	700.9	4,441.3	6,240.9	3,100.3	1,805.1	912.6	557.1	473.6	425.1	447.2
25-29 years	589.4	9,523.8	5,594.4	3,102.3	1,525.7	798.9	473.6	376.1	379.0	443.0
30-34 years	544.2	8,720.9	4,112.2	2,809.3	1,351.4	736.0	427.4	358.6	368.5	452.9
35-39 years	595.5	13,245.0	6,111.1	2,824.6	1,574.0	799.5	488.3	360.7	324.0	395.7
40-44 years	765.8	¹ 6,250.0	² 3,857.6	3,265.3	2,352.4	971.5	650.0	468.3	513.4	² 358.3
45 years and over	1,015.9	-	¹ 4,166.7	¹ 2,531.6	¹ 3,040.5	² 2,356.0	² 649.7	² 423.1	² 711.7	-
<u>White</u>										
Mothers of all ages	538.0	6,782.2	4,620.9	2,559.3	1,376.9	732.4	449.1	359.6	341.5	355.0
Under 15 years	1,596.4	-	-	¹ 6,122.4	² 3,289.5	² 2,120.1	² 1,397.2	² 559.7	² 1,904.8	-
15-19 years	785.0	7,575.8	5,187.3	2,988.6	1,854.6	1,041.8	648.3	494.1	501.9	² 505.5
20-24 years	563.2	² 3,131.5	4,966.1	2,557.0	1,451.0	745.7	465.2	399.5	372.0	367.0
25-29 years	470.1	10,619.5	5,180.8	2,495.5	1,224.3	636.0	393.9	311.4	321.3	348.9
30-34 years	429.3	² 7,079.6	2,781.6	2,315.8	1,054.1	586.7	353.0	298.5	292.8	374.1
35-39 years	454.7	² 13,725.5	4,797.4	2,282.7	1,184.1	659.6	373.8	289.9	233.5	261.3
40-44 years	624.2	¹ 4,347.8	² 3,333.3	2,910.6	1,676.3	840.3	552.1	388.7	421.2	² 349.5
45 years and over	735.7	-	¹ 6,250.0	¹ 1,694.9	² 2,870.8	² 2,054.8	² 500.4	² 167.4	² 211.0	-
<u>All other</u>										
Mothers of all ages	1,510.8	8,438.3	7,764.5	4,768.3	2,952.4	1,599.9	1,107.3	1,050.7	1,096.3	1,194.7
Under 15 years	1,971.4	¹ 4,166.7	¹ 5,263.2	² 1,941.7	² 4,086.0	1,889.5	² 1,273.5	² 1,758.2	¹ 3,030.3	-
15-19 years	1,916.7	² 7,692.3	7,429.1	5,354.1	3,422.2	1,863.0	1,377.7	1,370.6	1,602.6	² 2,384.5
20-24 years	1,520.0	7,305.9	8,979.3	4,587.4	2,910.7	1,573.1	1,116.1	1,155.4	1,019.6	² 1,176.5
25-29 years	1,341.7	7,894.7	6,478.6	4,883.2	2,586.9	1,523.8	978.2	942.8	964.2	1,246.6
30-34 years	1,231.6	11,864.4	7,154.2	4,243.9	2,385.5	1,394.4	873.8	831.4	1,036.4	² 991.1
35-39 years	1,428.0	12,244.9	9,937.9	4,602.9	2,983.9	1,416.0	1,170.3	892.9	1,077.0	² 1,185.5
40-44 years	1,584.7	¹ 11,111.1	¹ 5,970.1	² 4,562.7	5,090.1	1,545.8	1,231.4	1,018.2	² 1,217.4	² 404.0
45 years and over	2,229.3	-	-	¹ 5,000.0	¹ 3,448.3	² 3,333.3	² 1,360.5	² 1,793.7	¹ 3,409.1	-

See footnotes at end of table.

Table 12. Probabilities of dying at ages 28 days-11 months per 100,000 survivors, by birth weight, plurality, color, and age of mother: United States, 1960 live-birth cohort—Con.

Plurality, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
SINGLE BIRTHS										
<u>Total</u>										
Probability of dying per 100,000 survivors										
Mothers of all ages	667.4	6,914.6	5,507.4	3,231.4	1,786.5	908.7	545.4	433.7	411.7	457.3
Under 15 years	1,827.5	-	¹ 3,947.4	² 3,597.1	4,020.1	1,960.8	1,323.2	² 1,110.0	² 2,339.2	-
15-19 years	1,011.6	7,962.5	5,801.9	3,973.9	2,381.1	1,283.7	796.0	610.1	617.2	² 804.2
20-24 years	680.7	4,037.3	6,054.3	3,146.9	1,788.8	902.0	553.3	471.5	423.2	² 447.4
25-29 years	570.1	9,174.3	5,654.9	3,164.3	1,512.9	789.0	472.1	375.6	379.2	443.2
30-34 years	522.7	7,142.9	3,810.1	2,639.4	1,386.7	730.3	422.3	359.1	367.3	² 453.1
35-39 years	570.7	12,592.6	6,237.2	2,858.0	1,592.3	797.8	483.8	356.1	321.5	² 396.1
40-44 years	758.1	¹ 7,692.3	² 3,157.9	3,711.3	2,585.2	951.8	657.1	469.6	514.2	² 358.3
45 years and over	1,008.1	-	¹ 4,545.5	¹ 2,777.8	² 2,963.0	² 2,409.6	² 652.0	² 423.7	² 711.7	-
<u>White</u>										
Mothers of all ages	525.5	6,098.6	4,447.2	2,642.2	1,407.4	729.2	447.8	359.1	340.7	355.2
Under 15 years	1,607.6	-	-	¹ 6,666.7	² 3,472.2	² 2,135.2	² 1,397.2	² 559.7	² 1,904.8	-
15-19 years	772.8	² 8,000.0	4,818.3	3,136.2	1,845.9	1,037.4	647.2	494.4	502.0	² 506.0
20-24 years	550.5	² 2,901.8	4,738.9	2,691.7	1,459.9	737.7	463.4	398.5	369.9	367.1
25-29 years	456.6	² 9,326.4	5,362.6	2,528.6	1,230.3	630.2	392.4	311.3	321.4	349.1
30-34 years	414.4	² 5,454.5	2,520.3	2,081.9	1,091.4	583.7	350.4	298.7	293.2	374.2
35-39 years	442.5	¹ 13,414.6	4,563.8	2,505.5	1,273.6	668.2	372.3	286.4	230.5	261.5
40-44 years	618.9	¹ 5,000.0	² 2,222.2	3,311.3	1,872.5	835.7	557.7	389.5	421.9	² 349.5
45 years and over	717.8	-	¹ 7,142.9	¹ 1,923.1	² 2,564.1	² 2,101.6	² 501.1	² 167.6	² 211.0	-
<u>All other</u>										
Mothers of all ages	1,457.6	8,286.5	7,620.1	4,690.6	2,872.9	1,575.4	1,096.7	1,045.4	1,094.1	1,195.3
Under 15 years	1,959.8	-	¹ 5,357.1	¹ 2,127.7	² 4,194.3	1,889.5	² 1,273.5	² 1,758.2	¹ 3,030.3	-
15-19 years	1,872.0	² 7,920.8	7,043.8	5,339.8	3,326.5	1,841.7	1,369.8	1,366.2	1,603.6	² 2,384.5
20-24 years	1,459.8	² 6,632.7	8,845.4	4,336.6	2,788.7	1,548.5	1,100.1	1,143.9	1,020.7	² 1,178.0
25-29 years	1,292.2	² 8,955.2	6,282.7	4,970.6	2,484.4	1,493.1	976.9	939.1	964.9	1,246.6
30-34 years	1,177.3	² 10,784.3	6,734.7	4,238.9	2,385.9	1,376.2	853.7	834.3	1,021.1	² 992.2
35-39 years	1,338.4	¹ 11,320.8	11,588.0	4,024.4	2,750.0	1,365.7	1,151.0	880.4	1,079.8	² 1,185.5
40-44 years	1,568.2	¹ 16,666.7	¹ 6,666.7	² 5,116.3	5,434.8	1,458.7	1,249.7	1,025.2	1,219.5	² 404.0
45 years and over	2,282.6	-	-	¹ 5,000.0	¹ 4,000.0	² 3,409.1	² 1,379.3	² 1,793.7	¹ 3,409.1	-

See footnotes at end of table.

Table 12. Probabilities of dying at ages 28 days-11 months per 100,000 survivors, by birth weight, plurality, color, and age of mother: United States, 1960 live-birth cohort—Con.

Plurality, color, and age of mother	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
PLURAL BIRTHS										
<u>Total</u>										
Probability of dying per 100,000 survivors										
Mothers of all ages	1,712.3	11,792.5	6,306.3	2,960.8	1,688.2	1,115.1	914.6	1,002.3	¹ 1,801.8	-
Under 15 years	¹ 2,272.7	¹ 20,000.0	-	-	-	-	-	-	-	-
15-19 years	2,892.3	¹ 5,172.4	8,591.1	3,149.0	2,911.3	1,998.7	² 1,828.2	¹ 1,123.6	-	-
20-24 years	2,010.8	¹ 9,259.3	7,076.1	2,918.3	1,946.8	1,315.8	1,299.2	² 2,197.8	¹ 4,000.0	-
25-29 years	1,527.0	¹ 11,764.7	5,351.2	2,912.6	1,604.6	1,052.8	649.4	² 618.2	-	-
30-34 years	1,378.0	¹ 31,818.2	5,150.2	3,324.9	1,169.8	845.8	862.4	² 181.2	¹ 1,351.4	-
35-39 years	1,451.9	¹ 18,750.0	² 5,673.8	2,727.3	1,482.5	827.5	² 796.8	² 1,587.3	¹ 2,777.8	-
40-44 years	1,107.8	-	¹ 7,692.3	² 1,568.6	² 803.9	² 1,397.5	-	-	-	-
45 years and over	¹ 1,666.7	-	-	-	¹ 3,846.2	-	-	-	-	-
<u>White</u>										
Mothers of all ages	1,232.5	² 13,076.9	5,359.2	2,269.7	1,166.3	824.2	626.2	² 642.7	² 1,578.9	-
Under 15 years	-	-	-	-	-	-	-	-	-	-
15-19 years	1,998.2	¹ 5,128.2	² 7,317.1	2,178.6	1,973.3	² 1,360.5	² 1,091.7	-	-	-
20-24 years	1,434.9	¹ 6,451.6	5,961.5	2,061.4	1,377.7	1,037.9	814.3	² 1,295.3	¹ 4,761.9	-
25-29 years	1,167.9	¹ 18,181.8	² 4,444.4	2,397.7	1,189.0	782.9	² 565.5	² 359.1	-	-
30-34 years	1,042.6	¹ 66,666.7	² 3,669.7	3,016.1	870.4	645.2	² 574.2	² 210.1	-	-
35-39 years	904.7	¹ 15,000.0	² 5,699.5	² 1,626.9	² 734.7	² 516.8	² 484.4	² 1,246.1	¹ 3,846.2	-
40-44 years	² 867.4	-	¹ 8,888.9	² 1,449.3	² 394.5	² 939.8	-	-	-	-
45 years and over	¹ 2,631.6	(³)	-	-	¹ 7,142.9	-	-	-	-	-
<u>All other</u>										
Mothers of all ages	3,685.5	¹ 9,756.1	8,467.7	5,108.7	3,683.6	2,488.1	2,477.1	² 3,048.8	¹ 3,125.0	-
Under 15 years	¹ 3,703.7	¹ 20,000.0	-	-	-	-	-	-	-	-
15-19 years	5,441.7	¹ 5,263.2	¹ 11,627.9	5,468.8	5,396.3	² 4,000.0	¹ 5,618.0	¹ 7,142.9	-	-
20-24 years	4,497.8	¹ 13,043.5	9,607.0	5,756.4	4,223.3	2,731.3	² 4,336.7	¹ 7,246.4	-	-
25-29 years	3,094.8	-	² 7,253.9	4,587.2	3,318.3	2,384.9	² 1,119.4	¹ 2,222.2	-	-
30-34 years	2,787.1	¹ 18,750.0	² 8,633.1	4,259.6	2,383.2	² 1,756.1	² 2,386.1	-	¹ 25,000.0	-
35-39 years	3,673.5	(³)	¹ 5,618.0	² 6,250.0	4,128.4	² 2,346.6	² 2,243.6	¹ 3,508.8	-	-
40-44 years	² 2,150.5	-	-	¹ 2,083.3	² 2,608.7	² 3,571.4	-	-	-	-
45 years and over	-	-	-	-	-	-	-	-	-	-

¹ Rate calculated with frequencies indicating fewer than 20 deaths and fewer than 100 live births.

² Rate calculated with frequencies indicating fewer than 20 deaths and more than 100 live births.

³ Due to sampling variability, there were more deaths than births counted in this cell and the number of survivors was therefore less than zero.

Table 13. Deaths under 1 year of age, by birth weight, color, plurality, and age at death: United States, 1960 live-birth cohort

Color, plurality, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
<u>TOTAL</u>		Number of deaths under 1 year of age								
<u>All births</u>										
Under 1 year	107,038	22,359	15,225	12,789	12,709	14,950	16,400	9,083	2,647	876
Under 28 days	78,330	22,202	14,474	11,179	9,010	7,817	7,581	4,149	1,341	577
Under 7 days	70,031	21,748	13,507	10,349	7,899	6,249	5,714	3,059	1,042	464
Under 1 day	43,317	17,535	8,299	5,550	3,873	2,984	2,819	1,476	543	238
1-6 days	26,714	4,213	5,208	4,799	4,026	3,265	2,895	1,583	499	226
7-27 days	8,299	454	967	830	1,111	1,568	1,867	1,090	299	113
28 days-11 months	28,708	157	751	1,610	3,699	7,133	8,819	4,934	1,306	299
<u>Single births</u>										
Under 1 year	96,986	18,277	12,694	11,097	11,703	14,447	16,207	9,046	2,641	874
Under 28 days	69,613	18,145	12,097	9,806	8,424	7,596	7,497	4,134	1,339	575
Under 7 days	61,852	17,749	11,277	9,112	7,423	6,086	5,656	3,047	1,040	462
Under 1 day	37,873	14,183	7,048	5,041	3,665	2,903	2,788	1,468	541	236
1-6 days	23,979	3,566	4,229	4,071	3,758	3,183	2,868	1,579	499	226
7-27 days	7,761	396	820	694	1,001	1,510	1,841	1,087	299	113
28 days-11 months	27,373	132	597	1,291	3,279	6,851	8,710	4,912	1,302	299
<u>Plural births</u>										
Under 1 year	10,052	4,082	2,531	1,692	1,006	503	193	37	6	2
Under 28 days	8,717	4,057	2,377	1,373	586	221	84	15	2	2
Under 7 days	8,179	3,999	2,230	1,237	476	163	58	12	2	2
Under 1 day	5,444	3,352	1,251	509	208	81	31	8	2	2
1-6 days	2,735	647	979	728	268	82	27	4	-	-
7-27 days	538	58	147	136	110	58	26	3	-	-
28 days-11 months	1,335	25	154	319	420	282	109	22	4	-

Table 13. Deaths under 1 year of age, by birth weight, color, plurality, and age at death: United States, 1960 live-birth cohort—Con.

Color, plurality, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
WHITE										
<u>All births</u>										
Number of deaths under 1 year of age										
Under 1 year	79,819	16,256	11,536	10,001	9,486	10,756	12,154	6,966	2,015	649
Under 28 days	60,773	16,166	11,124	9,064	7,341	6,253	6,016	3,328	1,036	445
Under 7 days	55,007	15,900	10,513	8,534	6,623	5,150	4,620	2,496	804	367
Under 1 day	33,886	12,958	6,523	4,567	3,278	2,472	2,267	1,213	419	189
1-6 days	21,121	2,942	3,990	3,967	3,345	2,678	2,353	1,283	385	178
7-27 days	5,766	266	611	530	718	1,103	1,396	832	232	78
28 days-11 months	19,046	90	412	937	2,145	4,503	6,138	3,638	979	204
<u>Single births</u>										
Under 1 year	72,382	13,221	9,591	8,717	8,802	10,428	12,025	6,941	2,010	647
Under 28 days	54,109	13,148	9,270	7,965	6,887	6,097	5,950	3,315	1,034	443
Under 7 days	48,687	12,917	8,758	7,521	6,236	5,030	4,574	2,484	802	365
Under 1 day	29,698	10,436	5,531	4,158	3,111	2,411	2,242	1,205	417	187
1-6 days	18,989	2,481	3,227	3,363	3,125	2,619	2,332	1,279	385	178
7-27 days	5,422	231	512	444	651	1,067	1,376	831	232	78
28 days-11 months	18,273	73	321	752	1,915	4,331	6,075	3,626	976	204
<u>Plural births</u>										
Under 1 year	7,437	3,035	1,945	1,284	684	328	129	25	5	2
Under 28 days	6,664	3,018	1,854	1,099	454	156	66	13	2	2
Under 7 days	6,320	2,983	1,755	1,013	387	120	46	12	2	2
Under 1 day	4,188	2,522	992	409	167	61	25	8	2	2
1-6 days	2,132	461	763	604	220	59	21	4	-	-
7-27 days	344	35	99	86	67	36	20	1	-	-
28 days-11 months	773	17	91	185	230	172	63	12	3	-

Table 13. Deaths under 1 year of age, by birth weight, color, plurality, and age at death: United States, 1960 live-birth cohort—Con.

Color, plurality, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL OTHER										
<u>All births</u>										
Number of deaths under 1 year of age										
Under 1 year	27,219	6,103	3,689	2,788	3,223	4,194	4,246	2,117	632	227
Under 28 days	17,557	6,036	3,350	2,115	1,669	1,564	1,565	821	305	132
Under 7 days	15,024	5,848	2,994	1,815	1,276	1,099	1,094	563	238	97
Under 1 day	9,431	4,577	1,776	983	595	512	552	263	124	49
1-6 days	5,593	1,271	1,218	832	681	587	542	300	114	48
7-27 days	2,533	188	356	300	393	465	471	258	67	35
28 days-11 months	9,662	67	339	673	1,554	2,630	2,681	1,296	327	95
<u>Single births</u>										
Under 1 year	24,604	5,056	3,103	2,380	2,901	4,019	4,182	2,105	631	227
Under 28 days	15,504	4,997	2,827	1,841	1,537	1,499	1,547	819	305	132
Under 7 days	13,165	4,832	2,519	1,591	1,187	1,056	1,082	563	238	97
Under 1 day	8,175	3,747	1,517	883	554	492	546	263	124	49
1-6 days	4,990	1,085	1,002	708	633	564	536	300	114	48
7-27 days	2,339	165	308	250	350	443	465	256	67	35
28 days-11 months	9,100	59	276	539	1,364	2,520	2,635	1,286	326	95
<u>Plural births</u>										
Under 1 year	2,615	1,047	586	408	322	175	64	12	1	-
Under 28 days	2,053	1,039	523	274	132	65	18	2	-	-
Under 7 days	1,859	1,016	475	224	89	43	12	-	-	-
Under 1 day	1,256	830	259	100	41	20	6	-	-	-
1-6 days	603	186	216	124	48	23	6	-	-	-
7-27 days	194	23	48	50	43	22	6	2	-	-
28 days-11 months	562	8	63	134	190	110	46	10	1	-

Table 14. Infant mortality rates per 100,000 live births, by birth weight, color, plurality, and age at death: United States, 1960 live-birth cohort

Color, plurality, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
<u>TOTAL</u>		Rate per 100,000 live births								
<u>All births</u>										
Under 1 year of age	2,513.9	91,925.3	54,853.0	20,659.1	5,844.9	1,899.5	1,014.5	797.4	832.9	1,327.4
Under 28 days	1,839.7	91,279.9	52,147.3	18,058.3	4,143.7	993.2	469.0	364.3	421.9	874.3
Under 7 days	1,644.8	89,413.3	48,663.4	16,717.6	3,632.8	794.0	353.5	268.6	327.9	703.1
Under 1 day	1,017.3	72,092.3	29,899.8	8,965.4	1,781.2	379.1	174.4	129.6	170.9	360.6
1-6 days	627.4	17,321.1	18,763.5	7,752.2	1,851.6	414.8	179.1	139.0	157.0	342.5
7-27 days	194.9	1,866.5	3,483.9	1,340.8	511.0	199.2	115.5	95.7	94.1	171.2
28 days-11 months	674.2	645.5	2,705.7	2,600.8	1,701.2	906.3	545.5	433.2	410.9	453.1
<u>Single births</u>										
Under 1 year of age	2,325.2	91,138.9	55,342.9	22,301.9	6,096.2	1,897.1	1,010.1	795.7	831.6	1,325.1
Under 28 days	1,668.9	90,480.7	52,740.1	19,707.4	4,388.2	997.5	467.2	363.6	421.6	871.8
Under 7 days	1,482.8	88,506.0	49,165.1	18,312.6	3,866.7	799.2	352.5	268.0	327.5	700.5
Under 1 day	908.0	70,724.0	30,727.6	10,131.0	1,909.1	381.2	173.8	129.1	170.3	357.8
1-6 days	574.9	17,782.0	18,437.5	8,181.6	1,957.6	418.0	178.7	138.9	157.1	342.7
7-27 days	186.1	1,974.7	3,575.0	1,394.8	521.4	198.3	114.7	95.6	94.1	171.3
28 days-11 months	656.2	658.2	2,602.8	2,594.6	1,708.1	899.6	542.8	432.1	410.0	453.3
<u>Plural births</u>										
Under 1 year of age	11,596.1	95,619.6	52,521.3	13,929.4	3,950.5	1,971.8	1,608.1	1,674.2	2,678.6	5,263.2
Under 28 days	10,056.1	95,034.0	49,325.6	11,303.2	2,301.2	866.3	699.9	678.7	892.9	5,263.2
Under 7 days	9,435.4	93,675.3	46,275.2	10,183.6	1,869.2	639.0	483.3	543.0	892.9	5,263.2
Under 1 day	6,280.3	78,519.6	25,959.7	4,190.3	816.8	317.5	258.3	362.0	892.9	5,263.2
1-6 days	3,155.1	15,155.8	20,315.4	5,993.2	1,052.4	321.4	225.0	181.0	-	-
7-27 days	620.6	1,358.6	3,050.4	1,119.6	432.0	227.4	216.6	135.7	-	-
28 days-11 months	1,540.1	585.6	3,195.7	2,626.2	1,649.3	1,105.4	908.2	995.5	1,785.7	-

Table 14. Infant mortality rates per 100,000 live births, by birth weight, color, plurality, and age at death: United States, 1960 live-birth cohort—Con.

Color, plurality, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
WHITE										
<u>All births</u>										
Rate per 100,000 live births										
Under 1 year of age	2,216.7	92,928.6	57,564.9	21,895.5	5,815.0	1,731.8	885.3	686.4	700.4	1,120.7
Under 28 days	1,687.8	92,414.1	55,509.0	19,844.1	4,500.1	1,006.8	438.2	327.9	360.1	768.4
Under 7 days	1,527.7	90,893.5	52,460.1	18,683.8	4,059.9	829.2	336.5	245.9	279.5	633.7
Under 1 day	941.1	74,075.3	32,549.9	9,998.7	2,009.4	398.0	165.1	119.5	145.6	326.4
1-6 days	586.6	16,818.2	19,910.2	8,685.1	2,050.5	431.2	171.4	126.4	133.8	307.4
7-27 days	160.1	1,520.6	3,048.9	1,160.3	440.1	177.6	101.7	82.0	80.6	134.7
28 days-11 months	528.9	514.5	2,055.9	2,051.4	1,314.9	725.0	447.1	358.5	340.3	352.3
<u>Single births</u>										
Under 1 year of age	2,049.7	92,164.5	58,169.6	23,930.7	6,157.1	1,737.8	882.4	685.2	699.2	1,117.9
Under 28 days	1,532.2	91,655.6	56,222.7	21,866.2	4,817.6	1,016.1	436.6	327.2	359.7	765.4
Under 7 days	1,378.7	90,045.3	53,117.4	20,647.3	4,362.2	838.2	335.6	245.2	279.0	630.7
Under 1 day	841.0	72,750.1	33,545.6	11,414.9	2,176.2	401.8	164.5	119.0	145.0	323.1
1-6 days	537.7	17,295.2	19,571.8	9,232.4	2,186.0	436.5	171.1	126.3	133.9	307.6
7-27 days	153.5	1,610.3	3,105.3	1,218.9	455.4	177.8	101.0	82.0	80.7	134.8
28 days-11 months	517.4	508.9	1,946.9	2,064.5	1,339.6	721.8	445.8	357.9	339.5	352.5
<u>Plural births</u>										
Under 1 year of age	10,718.9	96,410.4	54,757.0	13,881.1	3,390.3	1,560.1	1,273.8	1,329.8	2,604.2	5,882.4
Under 28 days	9,604.8	95,870.4	52,195.9	11,881.1	2,250.3	742.0	651.7	691.5	1,041.7	5,882.4
Under 7 days	9,109.0	94,758.6	49,408.8	10,951.4	1,918.2	570.8	454.2	638.3	1,041.7	5,882.4
Under 1 day	6,036.1	80,114.4	27,927.9	4,421.6	827.8	290.1	246.9	425.5	1,041.7	5,882.4
1-6 days	3,072.8	14,644.2	21,480.9	6,529.7	1,090.5	280.6	207.4	212.8	-	-
7-27 days	495.8	1,111.8	2,787.2	929.7	332.1	171.2	197.5	53.2	-	-
28 days-11 months	1,114.1	540.0	2,561.9	2,000.0	1,140.0	818.1	622.1	638.3	1,562.5	-

Table 14. Infant mortality rates per 100,000 live births, by birth weight, color, plurality, and age at death: United States, 1960 live-birth cohort—Con.

Color, plurality, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL OTHER										
<u>All births</u>		Rate per 100,000 live births								
Under 1 year of age	4,142.3	89,355.8	47,809.7	17,179.1	5,935.0	2,527.3	1,742.4	1,704.9	2,097.4	2,808.0
Under 28 days	2,671.9	88,374.8	43,416.3	13,032.2	3,073.4	942.5	642.2	661.2	1,012.2	1,632.9
Under 7 days	2,286.4	85,622.3	38,802.5	11,183.7	2,349.7	662.3	448.9	453.4	789.8	1,199.9
Under 1 day	1,435.2	67,013.2	23,017.1	6,057.1	1,095.7	308.5	226.5	211.8	411.5	606.1
1-6 days	851.2	18,609.1	15,785.4	5,126.6	1,254.0	353.7	222.4	241.8	378.3	593.8
7-27 days	385.5	2,752.6	4,613.8	1,848.5	723.7	280.2	193.3	207.8	222.3	433.0
28 days-11 months	1,470.4	981.0	4,393.5	4,146.9	2,861.6	1,584.8	1,100.2	1,043.7	1,085.2	1,175.2
<u>Single births</u>										
Under 1 year of age	3,845.6	88,561.9	48,116.0	17,851.8	5,918.6	2,489.1	1,729.4	1,699.8	2,096.3	2,809.4
Under 28 days	2,423.2	87,528.5	43,836.3	13,808.9	3,135.8	928.4	639.7	661.3	1,013.3	1,633.7
Under 7 days	2,057.7	84,638.3	39,060.3	11,933.7	2,421.7	654.0	447.4	454.6	790.7	1,200.5
Under 1 day	1,277.7	65,633.2	23,523.0	6,623.2	1,130.3	304.7	225.8	212.4	411.9	606.4
1-6 days	779.9	19,005.1	15,537.3	5,310.5	1,291.4	349.3	221.7	242.3	378.7	594.1
7-27 days	365.6	2,890.2	4,775.9	1,875.2	714.1	274.4	192.3	206.7	222.6	433.2
28 days-11 months	1,422.3	1,033.5	4,279.7	4,042.9	2,782.8	1,560.7	1,089.7	1,038.5	1,083.0	1,175.7
<u>Plural births</u>										
Under 1 year of age	15,113.9	93,398.8	46,251.0	14,083.5	6,087.0	3,901.0	3,413.3	3,636.4	3,125.0	-
Under 28 days	11,865.7	92,685.1	41,278.6	9,458.1	2,495.3	1,449.0	960.0	606.1	-	-
Under 7 days	10,744.4	90,633.4	37,490.1	7,732.1	1,682.4	958.5	640.0	-	-	-
Under 1 day	7,259.3	74,041.0	20,442.0	3,451.8	775.0	445.8	320.0	-	-	-
1-6 days	3,485.1	16,592.3	17,048.1	4,280.3	907.4	512.7	320.0	-	-	-
7-27 days	1,121.3	2,051.7	3,788.5	1,725.9	812.9	490.4	320.0	606.1	-	-
28 days-11 months	3,248.2	713.6	4,972.4	4,625.5	3,591.7	2,452.1	2,453.3	3,030.3	3,125.0	-

Table 15. Births and survivors at selected age intervals up to 28 days, by birth weight, color, and plurality: United States, 1960 live-birth cohort

Color, plurality, and age	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
TOTAL		Number of births and survivors								
All births										
Births	4,257,850	24,323	27,756	61,905	217,436	787,037	1,616,543	1,139,043	317,813	65,994
1 day	4,214,533	6,788	19,457	56,355	213,563	784,053	1,613,724	1,137,567	317,270	65,756
7 days	4,187,819	2,575	14,249	51,556	209,537	780,788	1,610,829	1,135,984	316,771	65,530
28 days	4,179,520	2,121	13,282	50,726	208,426	779,220	1,608,962	1,134,894	316,472	65,417
Single births										
Births	4,171,166	20,054	22,937	49,758	191,971	761,527	1,604,541	1,136,833	317,589	65,956
1 day	4,133,293	5,871	15,889	44,717	188,306	758,624	1,601,753	1,135,365	317,048	65,720
7 days	4,109,314	2,305	11,660	40,646	184,548	755,441	1,598,885	1,133,786	316,549	65,494
28 days	4,101,553	1,909	10,840	39,952	183,547	753,931	1,597,044	1,132,699	316,250	65,381
Plural births										
Births	86,684	4,269	4,819	12,147	25,465	25,510	12,002	2,210	224	38
1 day	81,240	917	3,568	11,638	25,257	25,429	11,971	2,202	222	36
7 days	78,505	270	2,589	10,910	24,989	25,347	11,944	2,198	222	36
28 days	77,967	212	2,442	10,774	24,879	25,289	11,918	2,195	222	36
WHITE										
All births										
Births	3,600,744	17,493	20,040	45,676	163,131	621,089	1,372,850	1,014,875	287,680	57,910
1 day	3,566,858	4,535	13,517	41,109	159,853	618,617	1,370,583	1,013,662	287,261	57,721
7 days	3,545,737	1,593	9,527	37,142	156,508	615,939	1,368,230	1,012,379	286,876	57,543
28 days	3,539,971	1,327	8,916	36,612	155,790	614,836	1,366,834	1,011,547	286,644	57,465
Single births										
Births	3,531,362	14,345	16,488	36,426	142,956	600,065	1,362,723	1,012,995	287,488	57,876
1 day	3,501,664	3,909	10,957	32,268	139,845	597,654	1,360,481	1,011,790	287,071	57,689
7 days	3,482,675	1,428	7,730	28,905	136,720	595,035	1,358,149	1,010,511	286,686	57,511
28 days	3,477,253	1,197	7,218	28,461	136,069	593,968	1,356,773	1,009,680	286,454	57,433
Plural births										
Births	69,382	3,148	3,552	9,250	20,175	21,024	10,127	1,880	192	34
1 day	65,194	626	2,560	8,841	20,008	20,963	10,102	1,872	190	32
7 days	63,062	165	1,797	8,237	19,788	20,904	10,081	1,868	190	32
28 days	62,718	130	1,698	8,151	19,721	20,868	10,061	1,867	190	32

Table 15. Births and survivors at selected age intervals up to 28 days, by birth weight, color, and plurality: United States, 1960 live-birth cohort—Con.

Color, plurality, and age	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
ALL OTHER										
<u>All births</u>										
Number of births and survivors										
Births	657,106	6,830	7,716	16,229	54,305	165,948	243,693	124,168	30,133	8,084
1 day	647,675	2,253	5,940	15,246	53,710	165,436	243,141	123,905	30,009	8,035
7 days	642,082	982	4,722	14,414	53,029	164,849	242,599	123,605	29,895	7,987
28 days	639,549	794	4,366	14,114	52,636	164,384	242,128	123,347	29,828	7,952
<u>Single births</u>										
Births	639,804	5,709	6,449	13,332	49,015	161,462	241,818	123,838	30,101	8,080
1 day	631,629	1,962	4,932	12,449	48,461	160,970	241,272	123,575	29,977	8,031
7 days	626,639	877	3,930	11,741	47,828	160,406	240,736	123,275	29,863	7,983
28 days	624,300	712	3,622	11,491	47,478	159,963	240,271	123,019	29,796	7,948
<u>Plural births</u>										
Births	17,302	1,121	1,267	2,897	5,290	4,486	1,875	330	32	4
1 day	16,046	291	1,008	2,797	5,249	4,466	1,869	330	32	4
7 days	15,443	105	792	2,673	5,201	4,443	1,863	330	32	4
28 days	15,249	82	744	2,623	5,158	4,421	1,857	328	32	4

Table 16. Probabilities of dying per 100,000 survivors, by birth weight, color, plurality, and age at death: United States, 1960 live-birth cohort

Color, plurality, and age at death	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
TOTAL										
<u>All births</u>										
Probability of dying per 100,000 survivors										
1-6 days	633.9	62,065.4	26,766.7	8,515.7	1,885.2	416.4	179.4	139.2	157.3	343.7
7-27 days	198.2	17,631.1	6,786.4	1,609.9	530.2	200.8	115.9	96.0	94.4	172.4
28 days-11 months	686.9	7,402.2	5,654.3	3,173.9	1,774.7	915.4	548.1	434.8	412.7	457.1
<u>Single births</u>										
1-6 days	580.1	60,739.2	26,615.9	9,103.9	1,995.7	419.6	179.1	139.1	157.4	343.9
7-27 days	188.9	17,180.0	7,032.6	1,707.4	542.4	199.9	115.1	95.9	94.5	172.5
28 days-11 months	667.4	6,914.6	5,507.4	3,231.4	1,786.5	908.7	545.4	433.7	411.7	457.3
<u>Plural births</u>										
1-6 days	3,366.6	70,556.2	27,438.3	6,255.4	1,061.1	322.5	225.5	181.7	-	-
7-27 days	685.3	21,481.5	5,677.9	1,246.6	440.2	228.8	217.7	136.5	-	-
28 days-11 months	1,712.3	11,792.5	6,306.3	2,960.8	1,688.2	1,115.1	914.6	1,002.3	1,801.8	-
WHITE										
<u>All births</u>										
1-6 days	592.1	64,873.2	29,518.4	9,650.0	2,092.5	432.9	171.7	126.6	134.0	308.4
7-27 days	162.6	16,698.1	6,413.4	1,427.0	458.8	179.1	102.0	82.2	80.9	135.6
28 days-11 months	538.0	6,782.2	4,620.9	2,559.3	1,376.9	732.4	449.1	359.6	341.5	321.4
<u>Single births</u>										
1-6 days	542.3	63,468.9	29,451.5	10,422.1	2,234.6	438.2	171.4	126.4	134.1	308.6
7-27 days	155.7	16,176.5	6,623.5	1,536.1	476.2	179.3	101.3	82.2	80.9	135.6
28 days-11 months	525.5	6,098.6	4,447.2	2,642.2	1,407.4	729.2	447.8	359.1	340.7	355.2
<u>Plural births</u>										
1-6 days	3,270.2	73,642.2	29,804.7	6,831.8	1,099.6	281.4	207.9	213.7	-	-
7-27 days	545.5	21,212.1	5,509.2	1,044.1	338.6	172.2	198.4	53.5	-	-
28 days-11 months	1,232.5	13,076.9	5,359.2	2,269.7	1,166.3	824.2	626.2	642.7	1,578.9	-
ALL OTHER										
<u>All births</u>										
1-6 days	863.6	56,413.7	20,505.1	5,457.2	1,267.9	354.8	222.9	242.1	379.9	597.4
7-27 days	394.5	19,144.6	7,539.2	2,081.3	741.1	282.1	194.1	208.7	224.1	438.2
28 days-11 months	1,510.8	8,438.3	7,764.5	4,768.3	2,952.4	1,599.9	1,107.3	1,050.7	1,096.3	1,194.7
<u>Single births</u>										
1-6 days	790.0	55,300.7	20,316.3	5,687.2	1,306.2	350.4	222.2	242.8	380.3	577.6
7-27 days	373.3	18,814.1	7,837.2	2,129.3	731.8	276.2	193.2	207.7	224.4	438.4
28 days-11 months	1,457.6	8,286.5	7,620.1	4,690.6	2,872.9	1,575.4	1,096.7	1,045.4	1,094.1	1,195.3
<u>Plural births</u>										
1-6 days	3,757.9	63,917.5	21,428.6	4,433.3	914.5	515.0	321.0	-	-	-
7-27 days	1,256.2	21,904.8	6,060.6	1,870.6	826.8	495.2	322.1	606.1	-	-
28 days-11 months	3,685.5	9,756.1	8,467.7	5,108.7	3,683.6	2,488.1	2,477.1	3,048.8	3,125.0	-

Table 17. Deaths under 1 year of age, by birth weight, age at death, color, and period of gestation: United States, 1960 live-birth cohort

Color and period of gestation	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
<u>Total</u>		Number of deaths under 1 year of age								
All periods of gestation . . .	107,038	22,359	15,225	12,789	12,709	14,950	16,400	9,083	2,647	876
Under 20 weeks	1,078	1,017	38	13	1	-	2	6	-	1
20-27 weeks	19,685	15,037	3,885	623	88	24	14	9	1	4
28-31 weeks	14,198	3,287	6,455	3,489	785	118	46	10	6	2
32-35 weeks	11,621	620	2,464	4,448	3,008	741	254	60	18	8
36 weeks	5,339	104	382	1,080	1,737	1,077	554	275	93	37
37-39 weeks	9,723	60	276	898	2,127	2,810	2,407	858	224	63
40 weeks and over	36,905	249	451	1,196	3,896	9,065	12,043	7,186	2,116	703
Not stated	8,489	1,985	1,274	1,042	1,067	1,115	1,080	679	189	58
<u>White</u>										
All periods of gestation . . .	79,819	16,256	11,536	10,001	9,486	10,756	12,154	6,966	2,015	649
Under 20 weeks	677	642	22	7	1	-	2	2	-	1
20-27 weeks	14,686	11,136	2,991	464	66	17	8	3	1	-
28-31 weeks	10,707	2,370	4,894	2,718	587	90	36	5	6	1
32-35 weeks	9,331	400	1,914	3,632	2,501	614	201	46	17	6
36 weeks	3,908	64	267	805	1,295	854	381	164	55	23
37-39 weeks	7,833	42	200	728	1,665	2,250	1,997	709	187	55
40 weeks and over	26,173	154	283	827	2,538	6,071	8,682	5,501	1,603	514
Not stated	6,504	1,448	965	820	833	860	847	536	146	49
<u>All other</u>										
All periods of gestation . . .	27,219	6,103	3,689	2,788	3,223	4,194	4,246	2,117	632	227
Under 20 weeks	401	375	16	6	-	-	-	4	-	-
20-27 weeks	4,999	3,901	894	159	22	7	6	6	-	4
28-31 weeks	3,491	917	1,561	771	198	28	10	5	-	1
32-35 weeks	2,290	220	550	816	507	127	53	14	1	2
36 weeks	1,431	40	115	275	442	223	173	111	38	14
37-39 weeks	1,890	18	76	170	462	560	410	149	37	8
40 weeks and over	10,732	95	168	369	1,358	2,994	3,361	1,685	513	189
Not stated	1,985	537	309	222	234	255	233	143	43	9

Table 17. Deaths under 1 year of age, by birth weight, age at death, color, and period of gestation: United States, 1960 live-birth cohort—Con.

Color and period of gestation	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
<u>Total</u>		Number of deaths under 28 days								
All periods of gestation . . .	78,330	22,202	14,474	11,179	9,010	7,817	7,581	4,149	1,341	577
Under 20 weeks	1,076	1,016	38	13	1	-	1	6	-	1
20-27 weeks	19,479	14,985	3,793	585	80	18	10	3	1	4
28-31 weeks	13,387	3,238	6,144	3,189	671	95	34	8	6	2
32-35 weeks	10,131	607	2,291	3,918	2,509	569	175	40	14	8
36 weeks	3,747	102	346	892	1,230	676	298	133	45	25
37-39 weeks	5,814	58	249	750	1,448	1,545	1,181	423	120	40
40 weeks and over	18,254	247	397	920	2,315	4,284	5,346	3,223	1,068	454
Not stated	6,442	1,949	1,216	912	756	630	536	313	87	43
<u>White</u>										
All periods of gestation . . .	60,773	16,166	11,124	9,064	7,341	6,253	6,016	3,328	1,036	445
Under 20 weeks	676	642	22	7	1	-	1	2	-	1
20-27 weeks	14,585	11,105	2,949	442	64	16	6	2	1	-
28-31 weeks	10,277	2,343	4,726	2,564	532	74	27	4	6	1
32-35 weeks	8,393	396	1,802	3,296	2,190	505	152	33	13	6
36 weeks	2,970	63	243	700	1,000	600	231	91	28	14
37-39 weeks	4,898	41	189	625	1,202	1,330	1,016	360	98	37
40 weeks and over	13,910	153	262	694	1,711	3,211	4,150	2,561	821	347
Not stated	5,064	1,423	931	736	641	517	433	275	69	39
<u>All other</u>										
All periods of gestation . . .	17,557	6,036	3,350	2,115	1,669	1,564	1,565	821	305	132
Under 20 weeks	400	374	16	6	-	-	-	4	-	-
20-27 weeks	4,894	3,880	844	143	16	2	4	1	-	4
28-31 weeks	3,110	895	1,418	625	139	21	7	4	-	1
32-35 weeks	1,738	211	489	622	319	64	23	7	1	2
36 weeks	777	39	103	192	230	76	67	42	17	11
37-39 weeks	916	17	60	125	246	215	165	63	22	3
40 weeks and over	4,344	94	135	226	604	1,073	1,196	662	247	107
Not stated	1,378	526	285	176	115	113	103	38	18	4

Table 17. Deaths under 1 year of age, by birth weight, age at death, color, and period of gestation: United States, 1960 live-birth cohort—Con.

Color and period of gestation	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
<u>Total</u>	Number of deaths at 28 days-11 months									
All periods of gestation . . .	28,708	157	751	1,610	3,699	7,133	8,819	4,934	1,306	299
Under 20 weeks	2	1	-	-	-	-	1	-	-	-
20-27 weeks	206	52	92	38	8	6	4	6	-	-
28-31 weeks	811	49	311	300	114	23	12	2	-	-
32-35 weeks	1,490	13	173	530	499	172	79	20	4	-
36 weeks	1,592	2	36	188	507	401	256	142	48	12
37-39 weeks	3,909	2	27	148	679	1,265	1,226	435	104	23
40 weeks and over	18,651	2	54	276	1,581	4,781	6,697	3,963	1,048	249
Not stated	2,047	36	58	130	311	485	544	366	102	15
<u>White</u>										
All periods of gestation . . .	19,046	90	412	937	2,145	4,503	6,138	3,638	979	204
Under 20 weeks	1	-	-	-	-	-	1	-	-	-
20-27 weeks	101	31	42	22	2	1	2	1	-	-
28-31 weeks	430	27	168	154	55	16	9	1	-	-
32-35 weeks	938	4	112	336	311	109	49	13	4	-
36 weeks	938	1	24	105	295	254	150	73	27	9
37-39 weeks	2,935	1	11	103	463	920	981	349	89	18
40 weeks and over	12,263	1	21	133	827	2,860	4,532	2,940	782	167
Not stated	1,440	25	34	84	192	343	414	261	77	10
<u>All other</u>										
All periods of gestation . . .	9,662	67	339	673	1,554	2,630	2,681	1,296	327	95
Under 20 weeks	1	1	-	-	-	-	-	-	-	-
20-27 weeks	105	21	50	16	6	5	2	5	-	-
28-31 weeks	381	22	143	146	59	7	3	1	-	-
32-35 weeks	552	9	61	194	188	63	30	7	-	-
36 weeks	654	1	12	83	212	147	106	69	21	3
37-39 weeks	974	1	16	45	216	345	245	86	15	5
40 weeks and over	6,388	1	33	143	754	1,921	2,165	1,023	266	82
Not stated	607	11	24	46	119	142	130	105	25	5

Table 18. Infant mortality rates per 100,000 live births, by birth weight, age at death, color, and period of gestation: United States, 1960 live-birth cohort

Age at death, color, and period of gestation	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
UNDER 1 YEAR										
<u>Total</u>		Rate per 100,000 live births								
All periods of gestation . . .	2,513.9	91,925.3	54,853.0	20,659.1	5,844.9	1,899.5	1,014.5	797.4	832.9	1,327.4
Under 20 weeks	65,096.6	84,820.7	54,285.7	43,333.3	3,846.2	-	1,481.5	6,666.7	-	11,111.1
20-27 weeks	81,497.9	93,905.0	71,944.4	44,531.8	19,426.0	6,521.7	4,268.3	5,806.5	4,545.5	25,000.0
28-31 weeks	41,502.5	90,426.4	55,713.8	31,695.1	17,776.3	6,888.5	3,706.7	2,083.3	5,309.7	11,111.1
32-35 weeks	12,398.9	79,589.2	42,896.9	19,220.5	9,254.0	4,418.9	2,522.6	1,580.2	2,393.6	4,733.7
36 weeks	4,033.4	74,820.1	36,625.1	14,031.4	5,635.0	3,014.0	1,725.2	1,527.8	1,764.0	2,390.2
37-39 weeks	1,518.9	60,000.0	35,937.5	13,429.0	4,055.1	1,593.5	947.4	708.4	914.1	1,543.0
40 weeks and over	1,195.1	67,479.7	38,646.1	15,374.7	4,664.6	1,776.5	982.0	770.8	784.9	1,243.0
Not stated	3,483.1	95,021.5	64,408.5	25,030.0	8,061.3	2,437.3	1,170.8	1,075.7	1,076.7	1,614.2
<u>White</u>										
All periods of gestation . . .	2,216.7	92,928.6	57,564.9	21,895.5	5,815.0	1,731.8	885.3	686.4	700.4	1,120.7
Under 20 weeks	64,109.8	83,921.6	64,705.9	35,000.0	7,142.9	-	2,272.7	2,898.6	-	14,285.7
20-27 weeks	84,247.4	94,436.9	75,875.2	50,216.5	25,581.4	9,714.3	3,980.1	2,727.3	4,545.5	
28-31 weeks	44,423.7	92,868.3	58,428.8	34,748.1	19,443.5	8,474.6	4,374.2	1,416.4	6,896.6	12,500.0
32-35 weeks	13,079.3	79,365.1	45,162.8	20,709.3	9,825.2	4,805.9	2,746.7	1,634.7	2,921.0	5,128.2
36 weeks	3,927.3	90,140.8	37,500.0	14,359.6	5,611.4	3,068.9	1,594.7	1,210.8	1,445.1	2,371.1
37-39 weeks	1,426.3	66,666.7	36,036.0	13,962.4	3,959.6	1,539.2	906.2	651.5	836.5	1,532.0
40 weeks and over	999.0	63,636.4	41,495.6	15,785.5	4,353.9	1,543.3	837.2	662.1	656.1	1,030.2
Not stated	2,979.5	96,276.6	64,290.5	24,751.0	7,596.9	2,170.0	1,018.1	918.2	885.1	1,477.2
<u>All other</u>										
All periods of gestation . . .	4,142.3	89,355.8	47,809.7	17,179.1	5,935.0	2,527.3	1,742.4	1,704.9	2,097.4	2,808.0
Under 20 weeks	66,833.3	86,405.5	44,444.4	60,000.0	-	-	-	19,047.6	-	-
20-27 weeks	74,367.7	92,418.9	61,316.9	33,473.7	11,282.1	3,626.9	4,724.4	13,333.3	-	50,000.0
28-31 weeks	34,537.0	84,672.2	48,629.3	24,199.6	14,173.2	4,301.1	2,392.3	3,937.0	-	10,000.0
32-35 weeks	10,230.5	80,000.0	36,520.6	14,561.0	7,191.5	3,180.6	1,926.6	1,424.2	588.2	3,846.2
36 weeks	4,354.6	58,823.5	34,743.2	13,151.6	5,705.4	2,821.0	2,104.4	2,491.6	2,592.1	2,422.1
37-39 weeks	2,078.8	48,648.6	35,680.8	11,541.1	4,441.5	1,856.3	1,217.1	1,212.2	1,720.1	1,622.7
40 weeks and over	2,292.7	74,803.1	34,639.2	14,527.6	5,382.3	2,561.4	1,774.6	1,660.1	2,030.8	2,835.7
Not stated	7,806.4	91,794.9	64,779.9	26,117.6	10,303.8	4,169.4	2,574.6	3,013.1	4,068.1	3,260.9

Table 18. Infant mortality rates per 100,000 live births, by birth weight, age at death, color, and period of gestation: United States, 1960 live-birth cohort—Con.

Age at death, color, and period of gestation	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
UNDER 28 DAYS										
<u>Total</u>										
Rate per 100,000 live births										
All periods of gestation . .	1,839.7	91,279.9	52,147.3	18,058.3	4,143.7	993.2	469.0	364.3	421.9	874.3
Under 20 weeks	64,975.8	84,737.3	54,285.7	43,333.3	3,846.2	-	740.7	6,666.7	-	11,111.1
20-27 weeks	80,645.0	93,580.2	70,240.7	41,815.6	17,660.0	4,891.3	3,048.8	1,935.5	4,545.5	25,000.0
28-31 weeks	39,131.8	89,078.4	53,029.5	28,969.8	15,194.7	5,545.8	2,739.7	1,666.7	5,309.7	11,111.1
32-35 weeks	10,809.2	77,920.4	39,885.1	16,930.3	7,718.8	3,393.2	1,738.0	1,053.5	1,861.7	4,733.7
36 weeks	2,830.7	73,381.3	33,173.5	11,588.9	3,990.3	1,891.8	928.0	738.9	853.6	1,615.0
37-39 weeks	908.3	58,000.0	32,421.9	11,215.8	2,760.6	876.1	464.9	349.2	489.7	979.7
40 weeks and over	591.1	66,937.7	34,018.9	11,826.7	2,771.7	839.5	435.9	345.7	396.2	802.7
Not stated	2,643.2	93,298.2	61,476.2	21,907.3	5,711.7	1,377.1	581.1	495.9	495.6	1,196.8
<u>White</u>										
All periods of gestation . .	1,687.8	92,414.1	55,509.0	19,844.1	4,500.1	1,006.8	438.2	327.9	360.1	768.4
Under 20 weeks	64,015.2	83,921.6	64,705.9	35,000.0	7,142.9	-	1,136.4	2,898.6	-	14,285.7
20-27 weeks	83,668.0	94,174.0	74,809.7	47,835.5	24,806.2	9,142.9	2,985.1	1,818.2	4,545.5	-
28-31 weeks	42,639.6	91,810.3	56,423.1	32,779.3	17,621.7	6,968.0	3,280.7	1,133.1	6,896.6	12,500.0
32-35 weeks	11,764.5	78,571.4	42,520.0	18,793.5	8,603.4	3,952.7	2,077.1	1,172.7	2,233.7	5,128.2
36 weeks	2,984.7	88,732.4	34,129.2	12,486.6	4,333.1	2,156.1	966.9	671.8	735.7	1,443.3
37-39 weeks	891.8	65,079.4	34,054.1	11,987.0	2,858.5	909.8	461.1	330.8	438.4	1,030.6
40 weeks and over	531.0	63,223.1	38,416.4	13,246.8	2,935.2	816.2	400.2	308.3	336.0	695.5
Not stated	2,319.8	94,614.4	62,025.3	22,215.5	5,845.9	1,304.5	520.5	471.1	418.3	1,175.8
<u>All other</u>										
All periods of gestation . .	2,671.9	88,374.8	43,416.3	13,032.2	3,073.4	942.5	642.2	661.2	1,012.2	1,632.9
Under 20 weeks	66,666.7	86,175.1	44,444.4	60,000.0	-	-	-	19,047.6	-	-
20-27 weeks	72,805.7	91,921.3	57,887.5	30,105.3	8,205.1	1,036.3	3,149.6	2,222.2	-	50,000.0
28-31 weeks	30,767.7	82,640.8	44,174.5	19,617.1	9,949.9	3,225.8	1,674.6	3,149.6	-	10,000.0
32-35 weeks	7,764.5	76,727.3	32,470.1	11,099.2	4,524.8	1,602.8	836.1	712.1	588.2	3,846.2
36 weeks	2,364.4	57,352.9	31,117.8	9,182.2	2,968.9	961.4	815.0	942.8	1,159.6	1,903.1
37-39 weeks	1,007.5	45,945.9	28,169.0	8,486.1	2,364.9	712.7	489.8	512.5	1,022.8	608.5
40 weeks and over	928.0	74,015.7	27,835.0	8,897.6	2,393.9	918.0	631.5	652.2	977.8	1,605.4
Not stated	5,419.2	89,914.5	59,748.4	20,705.9	5,063.8	1,847.6	1,138.1	800.7	1,702.9	1,449.3

Table 18. Infant mortality rates per 100,000 live births, by birth weight, age at death, color, and period of gestation: United States, 1960 live-birth cohort—Con.

Age at death, color, and period of gestation	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
28 DAYS-11 MONTHS										
<u>Total</u>		Rate per 100,000 live births								
All periods of gestation . . .	674.2	645.5	2,705.7	2,600.8	1,701.2	906.3	545.5	433.2	410.9	453.1
Under 20 weeks	120.8	83.4	-	-	-	-	740.7	-	-	-
20-27 weeks	852.9	324.7	1,703.7	2,716.2	1,766.0	1,630.4	1,219.5	3,871.0	-	-
28-31 weeks	2,370.7	1,348.0	2,684.3	2,725.3	2,581.5	1,342.7	967.0	416.7	-	-
32-35 weeks	1,589.7	1,668.8	3,011.8	2,290.2	1,535.1	1,025.7	784.6	526.7	531.9	-
36 weeks	1,202.7	1,438.8	3,451.6	2,442.5	1,644.8	1,122.2	797.2	788.9	910.5	775.2
37-39 weeks	610.7	2,000.0	3,515.6	2,213.2	1,294.5	717.3	482.6	359.2	424.4	563.3
40 weeks and over	604.0	542.0	4,627.2	3,548.0	1,892.9	936.9	546.1	425.1	388.7	440.3
Not stated	839.9	1,723.3	2,932.3	3,122.7	2,349.7	1,060.2	589.8	579.8	581.1	417.5
<u>White</u>										
All periods of gestation . . .	528.9	514.5	2,055.9	2,051.4	1,314.9	725.0	447.1	358.5	340.3	352.3
Under 20 weeks	94.7	-	-	-	-	-	1,136.4	-	-	-
20-27 weeks	579.4	262.9	1,065.4	2,381.0	775.2	571.4	995.0	909.1	-	-
28-31 weeks	1,784.1	1,058.0	2,005.7	1,968.8	1,821.8	1,506.6	1,093.6	283.3	-	-
32-35 weeks	1,314.8	793.7	2,642.8	1,915.8	1,221.8	853.2	669.6	462.0	687.3	-
36 weeks	942.6	1,408.5	3,370.8	1,873.0	1,278.3	912.7	627.8	538.9	709.4	927.8
37-39 weeks	534.4	1,587.3	1,982.0	1,975.5	1,101.1	629.4	445.2	320.7	398.1	501.4
40 weeks and over	468.1	413.2	3,079.2	2,538.7	1,418.7	727.0	437.0	353.9	320.1	334.7
Not stated	659.7	1,662.2	2,265.2	2,535.5	1,751.0	865.5	497.6	447.1	466.8	301.5
<u>All other</u>										
All periods of gestation . . .	1,470.4	981.0	4,393.5	4,146.9	2,861.6	1,584.8	1,100.2	1,043.7	1,085.2	1,175.2
Under 20 weeks	166.7	230.4	-	-	-	-	-	-	-	-
20-27 weeks	1,562.0	497.5	3,429.4	3,368.4	3,076.9	2,590.7	1,574.8	11,111.1	-	-
28-31 weeks	3,769.3	2,031.4	4,454.8	4,582.5	4,223.3	1,075.3	717.7	787.4	-	-
32-35 weeks	2,466.0	3,272.7	4,050.5	3,461.8	2,666.7	1,577.8	1,090.5	712.1	-	-
36 weeks	1,990.1	1,470.6	3,625.4	3,969.4	2,736.5	1,859.6	1,289.4	1,548.8	1,432.5	519.0
37-39 weeks	1,071.3	2,702.7	7,511.7	3,055.0	2,076.5	1,143.6	727.3	699.6	697.4	1,014.2
40 weeks and over	1,364.7	787.4	6,804.1	5,629.9	2,988.4	1,643.5	1,143.1	1,007.9	1,053.0	1,230.3
Not stated	2,387.1	1,880.3	5,031.4	5,411.8	5,240.0	2,321.8	1,436.5	2,212.4	2,365.2	1,811.6

Table 19. Births and survivors to 28 days, by birth weight, color, and period of gestation: United States, 1960 live-birth cohort

Color and period of gestation	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
TOTAL		All live births								
All periods of gestation . . .	4,257,850	24,323	27,756	61,905	217,436	787,037	1,616,543	1,139,043	317,813	65,994
Under 20 weeks	1,656	1,199	70	30	26	85	135	90	12	9
20-27 weeks	24,154	16,013	5,400	1,399	453	368	328	155	22	16
28-31 weeks	34,210	3,635	11,586	11,008	4,416	1,713	1,241	480	113	18
32-35 weeks	93,726	779	5,744	23,142	32,505	16,769	10,069	3,797	752	169
36 weeks	132,370	139	1,043	7,697	30,825	35,733	32,113	18,000	5,272	1,548
37-39 weeks	640,114	100	768	6,687	52,452	176,346	254,054	121,119	24,505	4,083
40 weeks and over	3,087,898	369	1,167	7,779	83,523	510,276	1,226,362	932,280	269,584	56,558
Not stated	243,722	2,089	1,978	4,163	13,236	45,747	92,241	63,122	17,553	3,593
		Survivors to 28 days								
All periods of gestation . . .	4,179,520	2,121	13,282	50,726	208,426	779,220	1,608,962	1,134,894	316,472	65,417
Under 20 weeks	580	183	32	17	25	85	134	84	12	8
20-27 weeks	4,675	1,028	1,607	814	373	350	318	152	21	12
28-31 weeks	20,823	397	5,442	7,819	3,745	1,618	1,207	472	107	16
32-35 weeks	83,595	172	3,453	19,224	29,996	16,200	9,894	3,757	738	161
36 weeks	128,623	37	697	6,805	29,595	35,057	31,815	17,867	5,227	1,523
37-39 weeks	634,300	42	519	5,937	51,004	174,801	252,873	120,696	24,385	4,043
40 weeks and over	3,069,644	122	770	6,859	81,208	505,992	1,221,016	929,057	268,516	56,104
Not stated	237,280	140	762	3,251	12,480	45,117	91,705	62,809	17,466	3,550
WHITE		All live births								
All periods of gestation . . .	3,600,744	17,493	20,040	45,676	163,131	621,089	1,372,850	1,014,875	287,680	57,910
Under 20 weeks	1,056	765	34	20	14	49	88	69	10	7
20-27 weeks	17,432	11,792	3,942	924	258	175	201	110	22	8
28-31 weeks	24,102	2,552	8,376	7,822	3,019	1,062	823	353	87	8
32-35 weeks	71,342	504	4,238	17,538	25,455	12,776	7,318	2,814	582	117
36 weeks	99,508	71	712	5,606	23,078	27,828	23,892	13,545	3,806	970
37-39 weeks	549,198	63	555	5,214	42,050	146,179	220,366	108,827	22,354	3,590
40 weeks and over	2,619,812	242	682	5,239	58,292	393,389	1,036,971	830,781	244,323	49,893
Not stated	218,294	1,504	1,501	3,313	10,965	39,631	83,191	58,376	16,496	3,317

Table 19. Births and survivors to 28 days, by birth weight, color, and period of gestation: United States, 1960 live-birth cohort—Con.

Color and period of gestation	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
WHITE—Con.										
Survivors to 28 days										
All periods of gestation . . .	3,539,971	1,327	8,916	36,612	155,790	614,836	1,366,834	1,011,547	286,644	57,465
Under 20 weeks	380	123	12	13	13	49	87	67	10	6
20-27 weeks	2,847	687	993	482	194	159	195	108	21	8
28-31 weeks	13,825	209	3,650	5,258	2,487	988	796	349	81	7
32-35 weeks	62,949	108	2,436	14,242	23,265	12,271	7,166	2,781	569	111
36 weeks	96,538	8	469	4,906	22,078	27,228	23,661	13,454	3,778	956
37-39 weeks	544,300	22	366	4,589	40,848	144,849	219,350	108,467	22,256	3,553
40 weeks and over	2,605,902	89	420	4,545	56,581	390,178	1,032,821	828,220	243,502	49,546
Not stated	213,230	81	570	2,577	10,324	39,114	82,758	58,101	16,427	3,278
ALL OTHER										
All live births										
All periods of gestation . . .	657,106	6,830	7,716	16,229	54,305	165,948	243,693	124,168	30,133	8,084
Under 20 weeks	600	434	36	10	12	36	47	21	2	2
20-27 weeks	6,722	4,221	1,458	475	195	193	127	45	-	8
28-31 weeks	10,108	1,083	3,210	3,186	1,397	651	418	127	26	10
32-35 weeks	22,384	275	1,506	5,604	7,050	3,993	2,751	983	170	52
36 weeks	32,862	68	331	2,091	7,747	7,905	8,221	4,455	1,466	578
37-39 weeks	90,916	37	213	1,473	10,402	30,167	33,688	12,292	2,151	493
40 weeks and over	468,086	127	485	2,540	25,231	116,887	189,391	101,499	25,261	6,665
Not stated	25,428	585	477	850	2,271	6,116	9,050	4,746	1,057	276
Survivors to 28 days										
All periods of gestation . . .	639,549	794	4,366	14,114	52,636	164,384	242,128	123,347	29,828	7,952
Under 20 weeks	200	60	20	4	12	36	47	17	2	2
20-27 weeks	1,828	341	614	332	179	191	123	44		4
28-31 weeks	6,998	188	1,792	2,561	1,258	630	411	123	26	9
32-35 weeks	20,646	64	1,017	4,982	6,731	3,929	2,728	976	169	50
36 weeks	32,085	29	228	1,899	7,517	7,829	8,154	4,413	1,449	567
37-39 weeks	90,000	20	153	1,348	10,156	29,952	33,523	12,229	2,129	490
40 weeks and over	463,742	33	350	2,314	24,627	115,814	188,195	100,837	25,014	6,558
Not stated	24,050	59	192	674	2,156	6,003	8,947	4,708	1,039	272

Table 20. Probabilities of dying at ages 28 days-11 months per 100,000 survivors, by birth weight, color, and period of gestation: United States, 1960 live-birth cohort

Color and period of gestation	Total	Birth weight								
		1,000 grams or less	1,001 to 1,500 grams	1,501 to 2,000 grams	2,001 to 2,500 grams	2,501 to 3,000 grams	3,001 to 3,500 grams	3,501 to 4,000 grams	4,001 to 4,500 grams	4,501 grams or more
<u>Total</u>		Probability of dying per 100,000 survivors								
All periods of gestation	686.9	7,402.2	5,654.3	3,173.9	1,774.7	915.4	548.1	434.8	412.7	457.1
Under 20 weeks	344.8	546.4	-	-	-	-	746.3	-	-	-
20-27 weeks	4,406.4	5,058.4	5,725.0	4,668.3	2,144.8	1,714.3	1,257.9	3,947.4	-	-
28-31 weeks	3,894.7	12,342.6	5,714.8	3,836.8	3,044.1	1,421.5	994.2	423.7	-	-
32-35 weeks	1,782.4	7,558.1	5,010.1	2,757.0	1,663.6	1,061.7	798.5	532.3	542.0	-
36 weeks	1,237.7	5,405.4	5,165.0	2,762.7	1,713.1	1,143.9	804.7	794.8	918.3	787.9
37-39 weeks	616.3	4,761.9	5,202.3	2,492.8	1,331.3	723.7	484.8	360.4	426.5	568.9
40 weeks and over	607.6	1,639.3	7,013.0	4,023.9	1,946.9	944.9	548.5	426.6	390.3	443.8
Not stated	862.7	25,714.3	7,611.5	3,998.8	2,492.0	1,075.0	593.2	582.7	584.0	422.5
<u>White</u>										
All periods of gestation	538.0	6,782.2	4,620.9	2,559.3	1,376.9	732.4	449.1	359.6	341.5	355.0
Under 20 weeks	263.2	-	-	-	-	-	1,149.4	-	-	-
20-27 weeks	3,547.6	4,512.4	4,229.6	4,564.3	1,030.9	628.9	1,025.6	925.9	-	-
28-31 weeks	3,110.3	12,918.7	4,602.7	2,928.9	2,211.5	1,619.4	1,130.7	286.5	-	-
32-35 weeks	1,490.1	3,203.7	4,597.7	2,359.2	1,336.8	888.3	683.8	467.5	703.0	-
36 weeks	971.6	12,500.0	5,117.3	2,140.2	1,336.2	932.9	634.0	542.6	714.7	-
37-39 weeks	539.2	4,545.5	3,005.5	2,244.5	1,133.5	635.1	447.2	321.8	399.9	506.6
40 weeks and over	470.6	1,123.6	5,000.0	2,926.5	1,461.6	733.0	438.8	355.0	321.1	337.1
Not stated	675.3	30,864.2	5,964.9	3,259.6	1,859.7	876.9	500.3	449.2	468.7	305.1
<u>All other</u>										
All periods of gestation	1,510.8	8,438.3	7,764.5	4,768.3	2,952.4	1,599.9	1,107.3	1,050.7	1,096.3	1,194.7
Under 20 weeks	500.0	1,666.7	-	-	-	-	-	-	-	-
20-27 weeks	5,744.0	6,158.4	8,143.3	4,819.3	3,352.0	2,617.8	1,626.0	11,363.6	-	-
28-31 weeks	5,444.4	11,702.1	7,979.9	5,700.9	4,690.0	1,111.1	729.9	813.0	-	-
32-35 weeks	2,673.6	14,062.5	5,998.0	3,894.0	2,793.0	1,603.5	1,099.7	717.2	-	-
36 weeks	2,038.3	3,448.3	5,263.3	4,370.7	2,820.3	1,877.6	1,300.0	1,563.6	1,449.3	529.1
37-39 weeks	1,082.2	5,000.0	10,457.5	3,338.3	2,126.8	1,151.8	730.8	703.2	704.6	1,020.4
40 weeks and over	1,377.5	3,030.3	9,428.6	6,179.8	3,061.7	1,658.7	1,150.4	1,014.5	1,063.4	1,250.4
Not stated	2,523.9	18,644.1	12,500.0	6,824.9	5,519.5	2,365.5	1,453.0	2,230.2	2,406.2	1,838.2

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