Linked Birth/Infant Death Data Set — 1996 Birth Cohort

DSN:

CC36.NATAL.COHORT96.DENOM
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CC36.NATAL.COHORT96.LINK.PS
CC36.NATAL.COHORT96.UNLINK
CC36.NATAL.COHORT96.UNLINK.PS

Introduction

This documentation is for the 1996 birth cohort linked birth/infant death data set (linked file). Previous birth cohort linked files were released for data years 1983-91. Beginning with 1995 data, the linked file was released in two different formats — period data and birth cohort data.

Period data — The numerator for the 1996 period linked file consists of all infant deaths occurring in 1996 linked to their corresponding birth certificates, whether the birth occurred in 1996 or 1995. The denominator file for this data set is the 1996 natality file, that is, all births occurring in 1996. Beginning in 1996, the period linked files form the basis for all official NCHS linked file statistics (except for special cohort studies).

Birth cohort data — The numerator of the 1996 birth cohort linked file consists of deaths to infants born in 1996 linked to their corresponding birth certificates, whether the death occurred in 1996 or 1997. The denominator file is the 1996 natality file, that is, all births occurring in 1996.

The release of linked file data in two different formats allows NCHS to meet customer demands for more timely linked file data while still meeting the needs of data users who prefer the birth cohort format. The birth cohort file for a particular data year will generally be available about one year after the release of the period file since it is necessary to wait until the close of the following data year to include all infant deaths to the birth cohort. For most general purposes, differences between the 1996 birth cohort and 1996 period linked files are negligible. However, birth cohort files are preferred for multivariate and some other types of detailed analysis because they follow a given cohort of births for an entire year to ascertain their mortality experience. This is generally considered to be a more robust methodology than the period file, which is essentially cross-sectional in nature.

The 1996 birth cohort linked file includes several separate data files. The first file includes linked birth and death certificate data for all US infants born in 1996 who died before their first birthday - referred to as the numerator file. The second file contains information from the death certificate for all US infant death records which could not be linked to their corresponding birth certificates - referred to as the unlinked death file. The third file is the 1996 NCHS natality file

for the US with a few minor modifications - referred to as the denominator-plus file. These same three data files are also available for Puerto Rico, the Virgin Islands, and Guam.

For the denominator-plus file, selected variables from the numerator file have been added to the denominator file to facilitate processing. These variables include age at death (and recodes), underlying cause of death (and the 61-cause recode), place of accident, and record weight. These variables are the most widely used variables from the numerator file. With the previous file format it was sometimes necessary to combine the numerator and denominator files when performing certain multivariate statistical techniques. Now, when the number of variables required from the numerator file is limited, the denominator-plus file may be used by itself for ease of programming. Infant death identification numbers are also included, so that the same infant can be uniquely identified and matched between the numerator and denominator-plus files.

Weighting

In part to correct for known biases in the data, changes were made to the linked file beginning with the 1995 data year. These changes include the addition of a record weight and an imputation for not-stated birthweight. In the 1996 birth cohort linked file, 97.8% of infant death records were linked to their corresponding birth certificates. Overall, 2.2% of infant death records could not be linked because the matching birth certificate could not be found; however this percent varied considerably by State and other characteristics (see section on *Percent of records linked* below). Beginning with 1995 data, a record weight was added to the infant death records to correct in part for biases in percent of records linked by major characteristics. The number of infant deaths in the linked file are weighted to equal the sum of the linked plus unlinked infant deaths by age at death and state. The formula for computing the weights is as follows:

$$\frac{\text{number of linked infant deaths + number of unlinked infant deaths}}{\text{number of linked infant deaths.}}$$

A separate weight is computed for each State of residence of birth and each age at death category (<1 day, 1-27 days, 28 days-1 year). Thus, weights are 1.0 for states which link all of their infant deaths. These weights have been added to all linked infant death records in the numerator file, and in the denominator-plus file. In the denominator-plus file, records for surviving infants have been assigned a weight of 1.0. This causes the denominator-plus file to weight up to about 634 (by residence) or 639 (by occurrence) more than the total number of live births (about 3.9 million), thus most runs on live birth data from the denominator-plus file should be run unweighted. Weights have not been computed for the Puerto Rico, Virgin Islands, and Guam files.

The addition of weighting to the file has greatly reduced bias, but has also created challenges for data analysis. The researcher should be aware that the use of the weights is appropriate for

some, but not all applications. Weights should be used when computing the total number of infant deaths, or the number of infant deaths by characteristics, either from the numerator or the denominator-plus files. Weights should not be used when computing the total number of live births, or the number of live births by characteristics from the denominator-plus file, as the use of weights under these circumstances will yield a slight overestimate of the total number of US births. For multivariate analysis, the use of weights is generally recommended, however, a decision should be made on an individual basis, depending on the type of multivariate technique used, and the goals of the particular analysis. We would appreciate your feedback on the design and utility of the weights - please call Marian MacDorman at (301) 436-8954 ext. 171.

Imputed birthweight

An imputation for not-stated birthweight has been added to the data set, to reduce potential bias in the computation of birthweight-specific infant mortality rates. Basically, if birthweight is not-stated and the period of gestation is known, birthweight is assigned the value from the previous record with the same period of gestation, race, sex, and plurality. Imputed values are flagged. The addition of this imputation has reduced the percent of not-stated responses for birthweight from 3.37% to 1.17% in the numerator file, and from 0.12% to 0.06% in the denominator-plus file, thus reducing (but not eliminating) the potential for underestimation when computing birthweight-specific infant mortality rates.

Methodology

The methodology used to create the national file of linked birth and infant death records takes advantage of two existing data sources:

1. State linked files for the identification of linked birth and infant death certificates; and

2. NCHS natality and mortality computerized statistical files, the source of computer records for the two linked certificates.

Virtually all States routinely link infant death certificates to their corresponding birth certificates for legal and statistical purposes. When the birth and death of an infant occur in different States, copies of the records are exchanged by the State of death and State of birth in order to effect a link. In addition, if a third State is identified as the State of residence at the time of birth or death, that State is also sent a copy of the appropriate certificate by the State where the birth or death occurred.

The NCHS natality and mortality files, produced annually, include statistical data from birth and death certificates that are provided to NCHS by States under the Vital Statistics Cooperative Program (VSCP). The data have been coded according to uniform coding specifications, have passed rigid quality control standards, have been edited and reviewed, and are the basis for

official U.S. birth and death statistics.

To initiate processing, NCHS obtained matching birth certificate numbers from States for all infant deaths that occurred in their jurisdiction. We used this information to extract final, edited mortality and natality data from the NCHS natality and mortality statistical files. Individual birth and death records were selected from their respective files and linked into a single statistical record, thereby establishing a national linked record file.

After the initial linkage, NCHS returned to the States where the death occurred computer lists of unlinked infant death certificates for follow up linking. If the birth occurred in a State different from the State of death, the State of birth identified on the death certificate was contacted to obtain the linking birth certificate. State additions and corrections were incorporated, and a final, national linked file was produced. Characteristics of the natality and mortality data from which the linked file is constructed are described in detail in the Technical Appendices and Addenda included in this document.

Characteristics of Unlinked File

For the 1996 birth cohort linked file 639, or 2.2% of all infant death records could not be linked to their corresponding birth certificates. Unlinked records are included in a separate data file in this data set. The unlinked record file uses the same record layout as the numerator file of linked birth and infant death records. However, except as noted below, tape locations 1-210, reserved for information from the matching birth certificate, are blank since no matching birth certificate could be found for these records. The sex field (tape location 79) contains the sex of infant as reported on the death certificate, rather than the sex of infant from the birth certificate, which is not available. The race field (tape location 36-37) contains the race of the decedent as reported on the death certificate rather than the race of mother as reported on the birth certificate as is the case with the linked record file. The race of mother on the birth certificate is generally considered to be more accurate than the race information from the death certificate (see section on *Comparison of race data from birth and death certificates* in the Mortality Technical Appendix included in this documentation). Also, date of birth as reported on the death certificate is used to generate age at death. This information is used in place of date of birth from the birth certificate, which is not available.

Documentation table 6 shows counts of unlinked records by race and age at death for each State of residence. The user is cautioned in using table 6 that the race and residence items are based on information reported on the death certificate; whereas, tables 1-5 present data from the linked file in which the race and residence items are based on information reported on the birth certificate. (see section on *Comparison of race data from birth and death certificates* in the Mortality Technical Appendix included in this documentation).

Percent of Records Linked

The 1996 birth cohort linked file includes 27,632 linked infant death records and 639 unlinked infant death records by place of occurrence. The linked file is weighted to the sum of linked plus unlinked records, thus the total number of weighted infant deaths by place of occurrence is 28,271. While the overall percent linked for infant deaths in the 1996 birth cohort linked file is 97.8%, there are differences in percent linked by certain variables. These differences have important implications for how the data is analyzed.

Table 1 shows the percent of infant deaths linked by State of residence. While most States link a high percentage of infant deaths, linkage rates for some States are well below the national average. Note in particular the percent linked for California (94.6%), Hawaii (94.7%), New Hampshire (93.9%), Ohio (92.8%) and Oklahoma (92.1%). When a high percentage of deaths remain unlinked, infant mortality rates computed for these States are underestimated. It is for this reason that weights were added to the linked files beginning with 1995 data, to correct for biases in the data due to poor data linkage for particular states.

The percent of infant deaths linked by race and age at death is shown in Table 2. In general, a higher percentage of postneonatal (98.3%) than neonatal (97.5%) deaths were linked. The percent of records linked was slightly higher for white (97.8%) than for black (97.6%) infants. Variations in percent linked by underlying cause of death have also been noted (data not shown). While the weighting protocol has been designed to correct for possible bias due to variations in match rates by characteristics, no statistical method can correct perfectly for data limitations. Therefore, variations in the percent of records linked should be taken into consideration when comparing infant mortality rates by detailed characteristics.

Geographic classification

Geographic codes in this data set have been updated to reflect the results of the 1990 census, and differ slightly from those used in previous linked files. Because of confidentiality concerns, only those counties and cities with a population size of 250,000 or more are separately identified in this data set. Users should refer to the geographic code outline in this document for the list of available areas and codes.

For events to be included in the linked file, both the birth and death must occur inside the 50 States and D.C. in the case of the 50 States and D.C. file; or in Puerto Rico, the Virgin Islands or Guam in the case of the Puerto Rico, Virgin Islands and Guam file. In tabulations of linked data and denominator data events occurring in each of the respective areas to nonresidents are included in tabulations that are by place of occurrence, and excluded from tabulations by place of residence. These exclusions are based on the usual place of residence of the mother. This item is contained in both the denominator file and the birth section of the numerator (linked) file. Nonresidents are identified by a code 4 in location 11 of these files.

Table 1. Percent of infant deaths linked by state of residence of birth: United States, 1996 birth cohort

United States	97.8%	Nebraska	99.5%
Alabama	99.8%	Nevada	98.1%
Alaska	98.6%	New Hampshire	93.9%
Arizona	97.4%	New Jersey	98.1%
Arkansas	99.4%	New Mexico	96.6%
California	94.6%	Upstate New York	98.1%
Colorado	100.0%	New York City	97.8%
Connecticut	100.0%	North Carolina	99.4%
Delaware	100.0%	North Dakota	100.0%
District of Columbia	100.0%	Ohio	92.8%
Florida	99.6%	Oklahoma	92.1%
Georgia	99.9%	Oregon	99.2%
Hawaii	94.7%	Pennsylvania	97.0%
Idaho	97.1%	Rhode Island	100.0%
Illinois	97.9%	South Carolina	99.1%
Indiana	97.9%	South Dakota	100.0%
Iowa	100.0%	Tennessee	99.8%
Kansas	100.0%	Texas	97.5%
Kentucky	97.1%	Utah	98.9%
Louisiana	97.0%	Vermont	100.0%
Maine	100.0%	Virginia	97.9%
Maryland	99.2%	Washington	99.8%
Massachusetts	97.0%	West Virginia	97.9%
Michigan	98.4%	Wisconsin	99.6%
Minnesota	99.4%	Wyoming	100.0%
Mississippi	100.0%	Puerto Rico	99.7%
Missouri	97.9%	Virgin Islands	86.2%
Montana	100.0%	Guam	100.0%

Table 2. Percent of resident infant deaths linked by race and age at death: United States, 1996 birth cohort (Infant deaths are under 1 year; neonatal, under 28 days, and postneonatal, 28 days-under 1 year)

	All races	White	Black
Infant	97.8%	97.8%	97.6%
Neonatal	97.5%	97.6%	97.2%
Postneonatal	98.3%	98.2%	98.4%

Demographic and Medical Classification

The documents listed below describe in detail the procedures employed for demographic classification on both the birth and death records and medical classification on death records. While not absolutely essential to the proper interpretation of the data for a number of general applications, these documents should nevertheless be studied carefully prior to any detailed analysis of demographic or medical (especially multiple cause) data variables. In particular, there are a number of exceptions to the ICD rules in multiple cause-of-death coding which, if not treated properly, may result in faulty analysis of the data.

A. Manual of the International Statistical Classification of Diseases, Injuries, and the Cause-of-Death, Ninth Revision (ICD-9) Volumes 1 and 2.

B. NCHS Instruction Manual Data Preparation Part 2a, Vital Statistics Instructions for Classifying the Underlying Cause-of-Death. Published annually.

C. NCHS Instruction Manual Data Preparation, Part 2b, Vital Statistics Instructions for Classifying Multiple Cause-of-Death. Published annually.

D. NCHS Instruction Manual Data Preparation, Part 2c, Vital Statistics ICD-9 ACME Decision Tables for Classifying Underlying Causes-of-Death. Published annually.

E. NCHS Instruction Manual Data Preparation, Part 2d, Vital Statistics NCHS Procedures for Mortality Medical Data System File Preparation and Maintenance, Effective 1985.

F. NCHS Instruction Manual Data Tabulation, Part 2f, Vital Statistics ICD-9 TRANSAX Disease Reference Tables for Classifying Multiple Causes-of-Death, 1982-85.

G. NCHS Instruction Manual Part 2g, Vital Statistics, Data Entry Instructions for the Mortality Medical Indexing, Classification, and Retrieval system (MICAR). Published annually.

H. NCHS Instruction Manual Part 2h, Vital Statistics, Dictionary of Valid Terms for the Mortality Medical Indexing, Classification, and Retrieval System (MICAR). Published annually.

I. NCHS Instruction Manual Data Preparation, Part 3a, Vital Statistics Classification and Coding Instructions for Live Birth Records. Published annually.

J. NCHS Instruction Manual Data Preparation, Part 4, Vital Statistics Demographic Classification and Coding Instructions for Death Records. Published annually.

K. NCHS Instruction Manual Tabulation, Part 11, Vital Statistics Computer Edits for Mortality Data, Effective 1990.

Copies of NCHS Instruction Manuals may be requested from the Chief, Data Preparation Branch, Division of Data Processing, National Center for Health Statistics, P.O. Box 12214, Research Triangle Park, North Carolina 27709.

In addition, the user should refer to the Technical Appendices of the Vital Statistics of the United States for information on the source of data, coding procedures, quality of the data, etc. The Technical Appendices for natality and mortality are part of this documentation package.

Cause-of-Death Data

Mortality data are traditionally analyzed and published in terms of underlying cause-of-death. The underlying cause-of-death data are coded and classified as described in the Mortality Technical Appendices. NCHS has augmented underlying cause-of-death data with data on multiple causes reported on the death certificate. The linked file includes both underlying and multiple cause-of-death data.

The multiple cause of death codes were developed with two objectives in mind. First, to facilitate etiological studies of the relationships among conditions, it was necessary to reflect accurately in coded form each condition and its location on the death certificate in the exact manner given by the certifier. Secondly, coding needed to be carried out in a manner by which the underlying cause of death could be assigned through computer applications. The approach was to suspend the linkage provisions of the ICD for the purpose of condition coding and code each entity with minimum regard to other conditions present on the certification. This general approach is hereafter called entity coding.

Unfortunately, the set of multiple cause codes produced by entity coding is not conducive to a third objective -- the generation of person-based multiple cause statistics. Person-based analysis requires that each condition be coded within the context of every other condition on the same certificate and modified or linked to such conditions as provided by ICD-9. By definition, the entity data cannot meet this requirement since the linkage provisions distort the character and placement of the information originally recorded by the certifying physician.

Since the two objectives are incompatible, NCHS has chosen to create from the original set of entity codes a new code set called record axis multiple cause data. Essentially, the axis of classification has been converted from an entity basis to a record (or person) basis. The record axis codes are assigned in terms of the set of codes that best describe the overall medical certification portion of the death certificate.

This translation is accomplished by a computer system called TRANSAX (translation of axis) through selective use of traditional linkage and modification rules for mortality coding. Underlying cause linkages which simply prefer one code over another for purposes of underlying cause selection are not included. Each entity code on the record is examined and modified or deleted as necessary to create a set of codes which are free of contradictions and are the most precise within the constraints of ICD-9 and medical information on the record. Repetitive codes are deleted. The process may (1) combine two entity axis categories together to a new category thereby eliminating a contradiction or standardizing the data; or (2) eliminate one category in favor of another to promote specificity of the data or resolve contradictions. The following examples from ICD-9 illustrate the effect of this translation:

Case 1: When reported on the same record as separate entities, cirrhosis of liver and alcoholism are coded to 5715 (cirrhosis of liver without mention of alcohol) and 303 (alcohol dependence syndrome). Tabulation of records with 5715 would on the surface falsely imply that such records had no mention of alcohol. A preferable
codification would be 5712 (alcoholic cirrhosis of liver) in lieu of both 5715 and 303.

Case 2: If "gastric ulcer" and "bleeding gastric ulcer" are reported on a record they are coded to 5319 (gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation) and 5314 (gastric ulcer, chronic or unspecified, with hemorrhage). A more concise codification would be to code 5314 only since the 5314 shows both the gastric ulcer and the bleeding.

Entity Axis Codes

The original conditions coded for selection of the underlying cause of death are reformatted and edited prior to creating the public-use tape. The following paragraphs describe the format and application of entity axis data.

Format — Each entity-axis code is displayed as an overall seven byte code with subcomponents as follows:

1. Line indicator: The first byte represents the line of the certificate on which the code appears. Six lines (1-6) are allowable with the fourth and fifth denoting one or two written in "due to"s beyond the three lines provided in Part I of the U.S. standard death certificate. Line "6" represents Part II of the certificate.

2. Position indicator: The next byte indicates the position of the code on the line, i.e., it is the first (1), second (2), third (3),... eighth (8) code on the line.

3. Cause category: The next four bytes represent the ICD-9 cause code.

4. Nature of injury flag: ICD-9 uses the same series of numbers (800-999) to indicate nature of injury (N codes) and external cause codes (E codes). This flag distinguishes between the two with a one (1) representing nature of injury codes and a zero (0) representing all other cause codes.

A maximum of 20 of these seven byte codes are captured on a record for multiple-cause purposes. This may consist of a maximum of 8 codes on any given line with up to 20 codes distributed across three or more lines depending on where the subject conditions are located on the certificate. Codes may be omitted from one or more lines, e.g., line 1 with one or more codes, line 2 with no codes, line 3 with one or more codes.

In writing out these codes, they are ordered as follows: line 1 first code, line 1 second code, etc. ----- line 2 first code, line 2 second code, etc. ----- line 3 ----- line 4 ----- line 5 ----- line 6. Any space remaining in the field is left blank. The specifics of locations are contained in the record layout given later in this document.

Edit — The original conditions are edited to remove invalid codes, reverify the coding of certain rare causes of death, and assure age/cause and sex/cause compatibility. Detailed information relating to the edit criteria and the sets of cause codes which are valid to underlying cause coding and multiple cause coding are provided in Part 11 of the NCHS Vital Statistics Instruction Manual Series.

Entity axis applications — The entity axis multiple cause data is appropriate to analyses which require that each condition be coded as a stand alone entity without linkage to other conditions and/or require information on the placement of such conditions in the certificate. Within this framework, the entity data are appropriate to the examination of etiological relationships among conditions, accuracy of certification reporting, and the validity of traditional assumptions in underlying cause selection.

Additionally, the entity data provide in certain categories a more detailed code assignment which is linked out in the creation of record axis data. Where such detail is needed for a study, the user should selectively employ entity data. Finally, the researcher may not wish to be bound by the assumptions used in the axis translation process preferring rather to investigate hypotheses of his own predilection.

By definition, the main limitation of entity axis data is that an entity code does not necessarily reflect the best code for a condition when considered within the context of the medical certification as a whole. As a result certain entity codes can be misleading or even contradict other codes in the record. For example, category 5750 is titled "Acute cholecystitis without

mention of calculus". Within the framework of entity codes this is interpreted to mean that the codable entity itself contained no mention of calculus rather than that calculus was not mentioned anywhere on the record. Tabulation of records with a "5750" as a count of persons having acute cholecystitis without mention of calculus would therefore be erroneous. This illustrates the fact that under entity coding the ICD-9 titles cannot be taken literally. The user must study the rules for entity coding as they relate to his/her research prior to utilization of entity data. The user is further cautioned that the inclusion notes in ICD-9 which relate to modifying and combining categories are seldom applicable to entity coding (except where provided in Part 2b of the Vital Statistics Instruction Manual Series).

In tabulating the entity axis data, one may count codes with the resultant tabulation of an individual code representing the number of times the disease(s) represented by the code appears in the file. In this kind of tabulation of morbid condition prevalence, the counts among categories may be added together to produce counts for groups of codes. Alternatively, subject to the limitations given above, one may count persons having mention of the disease represented by a code or codes. In this instance it is not correct to add counts for individual codes to create person counts for groups of codes. Since more than one code in the researcher's interest may appear together on the certificate, totaling must account for higher order interactions among codes. Up to 20 codes may be assigned on a record; therefore, a 20-way interaction is theoretically possible. All totaling must be based on mention of one or more of the categories under investigation.

Record Axis Codes

The following paragraphs describe the format and application of record-axis data. Part 2f of the Vital Statistics Instruction Manual Series describes the TRANSAX process for creating record axis data from entity axis data.

Format — Each record (or person) axis code is displayed in five bytes. Location information is not relevant. The Code consists of the following components:

1. Cause category: The first four bytes represent the ICD-9 cause code.

2. Nature of injury flag: The last byte contains a 0 or 1 with the 1 indicating that the cause is a nature of injury category.

Again, a maximum of 20 codes are captured on a record for multiple cause purposes. The codes are written in a 100-byte field in ascending code number (5 bytes) order with any unused bytes left blank.

Edit — The record axis codes are edited for rare causes and age/cause and sex/cause compatibility. Likewise, individual code validity is checked. The valid code set for record axis coding is the same as that for entity coding.

Record axis applications — The record axis multiple cause data set is the basis for NCHS core multiple cause tabulations. Location of codes is not relevant to this data set and conditions have been linked into the most meaningful categories for the certification. The most immediate consequence for the user is that the codes on the record already represent mention of a disease assignable to that particular ICD-9 category. This is in contrast to the entity code which is assigned each time such a disease is reported on two different lines of the certification. Secondly, the linkage implies that within the constraints of ICD-9 the most meaningful code has been assigned. The translation process creates for the user a data set which is edited for contradictions, duplicate codes, and imprecisions. In contrast to entity axis data, record axis data are classified in a manner comparable to underlying cause of death classification thereby facilitating joint analysis of these variables. Likewise, they are comparable to general morbidity coding where the linkage provisions of ICD-9 are usually utilized. A potential disadvantage of record axis data is that some detail is sacrificed in a number of the linkages.

The user can take the record axis codes as literally representing the information conveyed in ICD-9 category titles. While knowledge of the rules for combining and linking and coding conditions is useful, it is not a prerequisite to meaningful analysis of the data as long as one is willing to accept the assumptions of the axis translation process. The user is cautioned, however, that due to special rules in mortality coding, not all linkage notes in ICD-9 are utilized. (See Part 2f of the Vital Statistics Instruction Manual Series.)

The user should proceed with caution in using record axis data to count conditions as opposed to people with conditions since linkages have been invoked and duplicate codes have been eliminated. As with entity data, person based tabulations which combine individual cause categories must take into account the possible interaction of up to 20 codes on a single certificate.

In using the NCHS multiple cause data, the user is urged to review the information in this document and its references. The instructional material does change from year to year and revision to revision. The user is cautioned that coding of specific ICD-9 categories should be checked in the appropriate instruction manual. What may appear on the surface to be the correct code by ICD-9 may in fact not be correct as given in the instruction manuals.

If on the surface it is not obvious whether entity axis or record axis data should be employed in a given application, detailed examination of Part 2f of the Vital Statistics Instruction Manual Series and its attachments will probably provide the necessary information to make a decision. It allows the user to determine the extent of the trade-offs between the two sets of data in terms of

specific categories and the assumptions of axis translation. In certain situations, a combination of entity and record axis data may be the more appropriate alternative.

Linked Birth/Infant Death Data Set - 1996 Birth Cohort Data
List of Data Elements and Locations

Data Items	Denominator-Plus File	Numerator File: Birth	Numerator File: Death	Unlinked File
1. General				
a. Match status	1	1	--	1
b. Infant death number	2-6	2-6-	--	--
c. Year of birth	7-10	7-10	--	--
d. Year of death	--	--	524-527	524-527
e. Resident status	11	11	505	505
f. Record weight	223-230	--	223-230	--
2. Occurrence				
a. FIPS state	14-15	14-15	508-509	508-509
b. FIPS county	16-18	16-18	510-512	510-512
3. Residence				
a. FIPS state	19-20	19-20	513-514	513-514
b. FIPS county	21-23	21-23	515-517	515-517
c. FIPS place	24-28	24-28	518-522	518-522
d. NCHS state	12-13	12-13	506-507	506-507
4. Infant				
a. Age	211-214	--	211-214	211-214+
b. Race	--	--	--	35-38*
c. Sex	78-79	78-79	--	78-79*
d. Gestation	70-77	70-77	--	--
e. Birthweight	80-87	80-87	--	--
f. Plurality	88-89	88-89	--	--
g. Apgar score	90-91	90-91	--	--
h. Day of week of birth/death	209	209	532	532
i. Month of birth/death	205-206	205-206	528-529	528-529
5. Mother				
a. Age	29-32	29-32	--	--
b. Race	35-38	35-38	--	--
c. Education	39-41	39-41	--	--
d. Marital status	42-43	42-43	--	--
e. Place of birth	44-46	44-46	--	--
f. Hispanic origin	33-34	33-34	--	--
6. Father				
a. Age	60-62	60-62	--	--
b. Race	65-66	65-66	--	--
c. Hispanic origin	63-64	63-64	--	--

Linked Birth/Infant Death Data Set - 1996 Birth Cohort Data
List of Data Elements and Locations

Data Items	Denominator-Plus File	Numerator File: Birth	Numerator File: Death	Unlinked File
7. Pregnancy items				
a. Month prenatal care began	51-53	51-53	--	--
b. Number of prenatal visits	54-55	54-55	--	--
c. Adequacy of care recode	56	56	--	--
d. Total birth order	47-48	47-48	--	--
e. Live birth order	49-50	49-50	--	--
8. Medical and Health Data				
a. Method of delivery	92-99	92-99	--	--
b. Medical risk factors	100-117	100-117	--	--
c. Other risk factors				
Tobacco	118-121	118-121	--	--
Alcohol	122-125	122-125	--	--
Weight gain during pregnancy	126-128	126-128	--	--
d. Obstetric procedures	129-136	129-136	--	--
e. Complications of labor and/or delivery	137-153	137-153	--	--
f. Abnormal conditions of the newborn	154-163	154-163	--	--
g. Congenital anomalies	164-186	164-186	--	--
h. Underlying cause of death			216-219	216-219
i. 61 Infant cause recode			220-222	220-222
j. Multiple conditions			261-504	261-504
9. Other items				
a. Place of delivery	67	67	--	--
b. Attendant at birth	68	68	--	--
c. Hospital and patient status	--	--	523	523
e. Place of accident	--	--	215	215
f. Residence reporting flags	187-203	187-203	--	--

\+ For the unlinked file, date of birth as reported on the death certificate is used to generate age at death. See section on Changes Beginning with 1995 Data for explanation.

* For the unlinked file, these items are from the death certificate. See section on Changes Beginning with 1995 Data for explanation.

Item Location	Item Length	Variable Name, Item and Code Outline
1	1	**MATCHS** **Match Status** 1 ... Matched Birth/Infant Death Record 2 ... Surviving infant record 3 ... Unmatched infant death record Note: This code is used in the unlinked file only.
2- 6	5	**IDNUMBER** **Infant Death Number** This number uniquely identifies the same infant in the numerator and denominator-plus files.

Locations 7-210 of the linked file contain data from the Birth Certificate.
Locations 211-222, 261-535 of linked file contain data from the Death Certificate.

Residence items in the Denominator Record and in the natality section of the Numerator (linked) Record refer to the usual place of residence of the Mother; whereas in the mortality section of the Numerator (Linked) Record, these items refer to the residence of the Decedent.

7-10	4	**BIRYR** **Year of Birth** 1996 ... Born in 1996
11	1	**RESSTATB** **Resident Status - Birth** **United States Occurrence** 1 ... RESIDENTS: State and county of occurrence and residence are the same. 2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different. 3 ... INTERSTATE NONRESIDENTS: State of occurrence and residence are different, but both are in the 50 States and D.C. 4 ... FOREIGN RESIDENTS: State of occurrence is one of the 50 States or the District of Columbia, but place of residence of mother is outside of the 50 States and D.C. **Puerto Rico Occurrence** 1 ... RESIDENTS: State and county of occurrence and residence are the same. 2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different. 4 ... FOREIGN RESIDENTS: Occurred in Puerto Rico to a resident of any other place.

Item Location	Item Length	Variable Name, Item and Code Outline
11	1	**Virgin Islands Occurrence** 1 ... RESIDENTS: State and county of occurrence and residence are the same. 2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different. 4 ... FOREIGN RESIDENTS: Occurred in the Virgin Islands to a resident of any other place. **Guam Occurrence** 1 ... RESIDENTS: Occurred in Guam to a resident of Guam or to a resident of the U.S. 4 ... FOREIGN RESIDENTS: Occurred in Guam to a resident of any place other than Guam or the U.S.
12-13	2	**BRSTATE** **Expanded State of Residence - NCHS Codes - Birth** This item is designed to separately identify New York City records from other New York State records. **United States Occurrence** 01 ... Alabama 02 ... Alaska 03 ... Arizona 04 ... Arkansas 05 ... California 06 ... Colorado 07 ... Connecticut 08 ... Delaware 09 ... District of Columbia 10 ... Florida 11 ... Georgia 12 ... Hawaii 13 ... Idaho 14 ... Illinois 15 ... Indiana 16 ... Iowa 17 ... Kansas 18 ... Kentucky 19 ... Louisiana 20 ... Maine 21 ... Maryland 22 ... Massachusetts 23 ... Michigan 24 ... Minnesota 25 ... Mississippi 26 ... Missouri

Item Location	Item Length	Variable Name, Item and Code Outline
12-13	2	**BRSTATE**

Expanded State of Residence - NCHS Codes - Birth (Cond't)

This item is designed to separately identify New York City records from other New York State records.

United States Occurrence

27	...	Montana
28	...	Nebraska
29	...	Nevada
30	...	New Hampshire
31	...	New Jersey
32	...	New Mexico
33	...	New York
34	...	New York City
35	...	North Carolina
36	...	North Dakota
37	...	Ohio
38	...	Oklahoma
39	...	Oregon
40	...	Pennsylvania
41	...	Rhode Island
42	...	South Carolina
43	...	South Dakota
44	...	Tennessee
45	...	Texas
46	...	Utah
47	...	Vermont
48	...	Virginia
49	...	Washington
50	...	West Virginia
51	...	Wisconsin
52	...	Wyoming
53-58,60	...	Foreign Residents
53	...	Puerto Rico
54	...	Virgin Islands
55	...	Guam
56	...	Canada
57	...	Cuba
58	...	Mexico
60	...	Remainder of the World

Puerto Rico Occurrence

53	...	Puerto Rico
01-52,54-58,60	...	Foreign Residents: Refer to U.S. for specific code structure.

Virgin Islands Occurrence

54	...	Virgin Islands
01-53,55-58,60	...	Foreign Residents: Refer to U.S. for specific code structure.

Item Location	Item Length	Variable Name, Item and Code Outline
12-13	2	**BRSTATE** **Expanded State of Residence - NCHS Codes - Birth (Cond't)**

This item is designed to separately identify New York City records from other New York State records.

Guam Occurrence

55	...	Guam
01-52	...	U.S. resident is also considered a resident of Guam.
53,54,58,60	...	Foreign Residents: Refer to U.S. for specific code structure.

14-18	5	**FIPSOCCB** **Federal Information Processing Standards (FIPS) Geographic Codes (Occurrence) - Birth**

Refer to the Geographic Code Outline further back in this document for a detailed list of areas and codes. For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications.

14-15	2	**STOCCFIPB** **State of Occurrence (FIPS) - Birth**

United States

01	...	Alabama
02	...	Alaska
04	...	Arizona
05	...	Arkansas
06	...	California
08	...	Colorado
09	...	Connecticut
10	...	Delaware
11	...	District of Columbia
12	...	Florida
13	...	Georgia
15	...	Hawaii
16	...	Idaho
17	...	Illinois
18	...	Indiana
19	...	Iowa
20	...	Kansas
21	...	Kentucky
22	...	Louisiana
23	...	Maine
24	...	Maryland
25	...	Massachusetts
26	...	Michigan
27	...	Minnesota
28	...	Mississippi
29	...	Missouri
30	...	Montana
31	...	Nebraska
32	...	Nevada

Item Location	Item Length	Variable Name, Item and Code Outline
14-15	2	**STOCCFIPB** **State of Occurrence (FIPS) - Birth (Cond't)**

United States

33	...	New Hampshire
34	...	New Jersey
35	...	New Mexico
36	...	New York
37	...	North Carolina
38	...	North Dakota
39	...	Ohio
40	...	Oklahoma
41	...	Oregon
42	...	Pennsylvania
44	...	Rhode Island
45	...	South Carolina
46	...	South Dakota
47	...	Tennessee
48	...	Texas
49	...	Utah
50	...	Vermont
51	...	Virginia
53	...	Washington
54	...	West Virginia
55	...	Wisconsin
56	...	Wyoming

Puerto Rico

72	...	Puerto Rico

Virgin Islands

78	...	Virgin Islands

Guam

66	...	Guam

16-18	3	**CNTOCFIPB** **County of Occurrence (FIPS) - Birth**

001-nnn	...	Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State. (Note: To uniquely identify a county, both the State and county codes must be used.)
999	...	County with less than 250,000 population

Item Location	Item Length	Variable Name, Item and Code Outline
19-23	5	**FIPSRESB** **Federal Information Processing Standards (FIPS) Geographic Codes (Residence) - Birth** Refer to the Geographic Code Outline further back in this document for a detailed list of areas and codes. For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications.
19-20	2	**STRESFIPB** **State of Residence (FIPS) - Birth** **United States Occurrence** 00 ... Foreign residents 01 ... Alabama 02 ... Alaska 04 ... Arizona 05 ... Arkansas 06 ... California 08 ... Colorado 09 ... Connecticut 10 ... Delaware 11 ... District of Columbia 12 ... Florida 13 ... Georgia 15 ... Hawaii 16 ... Idaho 17 ... Illinois 18 ... Indiana 19 ... Iowa 20 ... Kansas 21 ... Kentucky 22 ... Louisiana 23 ... Maine 24 ... Maryland 25 ... Massachusetts 26 ... Michigan 27 ... Minnesota 28 ... Mississippi 29 ... Missouri 30 ... Montana 31 ... Nebraska 32 ... Nevada 33 ... New Hampshire 34 ... New Jersey 35 ... New Mexico 36 ... New York 37 ... North Carolina 38 ... North Dakota 39 ... Ohio 40 ... Oklahoma 41 ... Oregon 42 ... Pennsylvania 44 ... Rhode Island

Item Location	Item Length	Variable Name, Item and Code Outline
19-20	2	**STRESFIPB** **State of Residence (FIPS) - Birth Cond't)**

United States Occurrence

45	...	South Carolina
46	...	South Dakota
47	...	Tennessee
48	...	Texas
49	...	Utah
50	...	Vermont
51	...	Virginia
53	...	Washington
54	...	West Virginia
55	...	Wisconsin
56	...	Wyoming

Puerto Rico Occurrence

00-56,66,78	...	Foreign Residents: Refer to U.S. for specific code structure
72	...	Puerto Rico

Virgin Islands Occurrence

00-56,66,72	...	Foreign Residents: Refer to U.S. for specific code structure
78	...	Virgin Islands

Guam Occurrence

00,72,78	...	Foreign Residents: Refer to U.S. for specific code structure
01-56	...	U.S. Resident is also considered a resident of Guam. Refer to U.S. for specific code structure
66	...	Guam

21-23	3	**CNTYRFPB** **County of Residence (FIPS) - Birth**

000	...	Foreign residents
001-nnn	...	Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State (Note: To uniquely identify a county, both the State and county codes must be used.)
999	...	County with less than 250,000 population

24-28	5	**PLRES** **Place (City) of Residence (FIPS)**

A complete list of cities is shown in the Geographic Code Outline further back in this document.

00000	...	Foreign residents
00001-nnnnn	...	Code range
99999	...	Balance of county; or city less than 250,000 population

Item Location	Item Length	Variable Name, Item and Code Outline
29	1	**MAGEFLG** **Age of Mother Flag** This position is flagged whenever age is imputed or the mother's reported age is used. The reported age is used, if valid, when computed age derived from the date of birth is not available or when it is outside the 10-49 code range. Blank ... Not imputed and reported age is not used 1 ... Reported age is used 2 ... Age is imputed
30-31	2	**DMAGE** **Age of Mother** This item is: a) computed using dates of birth of mother and of delivery; b) reported; or c) imputed. This is the age item used in NCHS publications. 10-49 ... Age in single years
32	1	**MAGER8** **Age of Mother Recode 8** 1 ... Under 15 years 2 ... 15 - 19 years 3 ... 20 - 24 years 4 ... 25 - 29 years 5 ... 30 - 34 years 6 ... 35 - 39 years 7 ... 40 - 44 years 8 ... 45 - 49 years
33	1	**ORMOTH** **Hispanic Origin of Mother** Hispanic origin is reported for all areas except Puerto Rico. 0 ... Non-Hispanic 1 ... Mexican 2 ... Puerto Rican 3 ... Cuban 4 ... Central or South American 5 ... Other and unknown Hispanic 9 ... Origin unknown or not stated

Item Location	Item Length	Variable Name, Item and Code Outline
34	1	**ORRACEM** **Hispanic Origin and Race of Mother Recode** Hispanic origin is reported for all areas except Puerto Rico. 1 ... Mexican 2 ... Puerto Rican 3 ... Cuban 4 ... Central or South American 5 ... Other and unknown Hispanic 6 ... Non-Hispanic White 7 ... Non-Hispanic Black 8 ... Non-Hispanic other races 9 ... Origin unknown or not stated
35	1	**MRACEIMP** **Race of Mother Imputation Flag** Blank ... Race is not imputed 1 ... Race is imputed 2 ... All other races, formerly code 09, is imputed
36-37	2	**MRACE** **Race of Mother - Birth Record or for Unlinked Records Race of Decedent from Death Record** Beginning with 1992 data, some areas started reporting additional Asian or Pacific Islander codes for race. Codes 18-68 replace old code 08 for these areas. Code 78 replaces old code 08 for all other areas. For consistency with Census race code 09 (all other races) used prior to 1992 has been imputed. **United States Occurrence** 01 ... White 02 ... Black 03 ... American Indian (includes Aleuts and Eskimos) 04 ... Chinese 05 ... Japanese 06 ... Hawaiian (includes part-Hawaiian) 07 ... Filipino 18 ... Asian Indian 28 ... Korean 38 ... Samoan 48 ... Vietnamese 58 ... Guamanian 68 ... Other Asian or Pacific Islander in areas reporting codes 18-58 78 ... Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately

Item Location	Item Length	Variable Name, Item and Code Outline
36-37	2	**MRACE** **Race of Mother - Birth Record or for Unlinked Records Race of Decedent from Death Record (Cond't)**

Puerto Rico Occurrence

00	...	Other races
01	...	White
02	...	Black

Virgin Islands Occurrence

01	...	White
02	...	Black
03	...	American Indian (includes Aleuts and Eskimos)
04	...	Chinese
05	...	Japanese
06	...	Hawaiian (includes part-Hawaiian)
07	...	Filipino
08	...	Other Asian or Pacific Islander

Guam Occurrence

01	...	White
02	...	Black
03	...	American Indian (includes Aleuts and Eskimos)
04	...	Chinese
05	...	Japanese
06	...	Hawaiian (includes part-Hawaiian)
07	...	Filipino
08	...	Other Asian or Pacific Islander
58	...	Guamanian

38	1	**MRACE3** **Race of Mother Recode**

1	...	White
2	...	Races other than White or Black
3	...	Black

Item Location	Item Length	Variable Name, Item and Code Outline
39-40	2	**DMEDUC** **Education of Mother Detail** All areas report education of mother. 00 ... No formal education 01-08 ... Years of elementary school 09 ... 1 year of high school 10 ... 2 years of high school 11 ... 3 years of high school 12 ... 4 years of high school 13 ... 1 year of college 14 ... 2 years of college 15 ... 3 years of college 16 ... 4 years of college 17 ... 5 or more years of college 99 ... Not stated
41	1	**MEDUC6** **Education of Mother Recode** 1 ... 0 - 8 years 2 ... 9 - 11 years 3 ... 12 years 4 ... 13 - 15 years 5 ... 16 years and over 6 ... Not stated
42	1	**DMARIMP** **Marital Status of Mother Imputation Flag** Blank ... Marital status is not imputed 1 ... Marital status is imputed
43	1	**DMAR** **Marital Status of Mother** Marital status is not reported by all areas. See reporting flags. **United States/Virgin Islands/Guam Occurrence** 1 ... Married 2 ... Unmarried 9 ... Unknown or not stated **Puerto Rico Occurrence** 1 ... Married 2 ... Unmarried parents living together 3 ... Unmarried parents not living together 9 ... Unknown or not stated

Item Location	Item Length	Variable Name, Item and Code Outline
44-45	2	**MPLBIR** **Place of Birth of Mother**

01	...	Alabama
02	...	Alaska
03	...	Arizona
04	...	Arkansas
05	...	California
06	...	Colorado
07	...	Connecticut
08	...	Delaware
09	...	District of Columbia
10	...	Florida
11	...	Georgia
12	...	Hawaii
13	...	Idaho
14	...	Illinois
15	...	Indiana
16	...	Iowa
17	...	Kansas
18	...	Kentucky
19	...	Louisiana
20	...	Maine
21	...	Maryland
22	...	Massachusetts
23	...	Michigan
24	...	Minnesota
25	...	Mississippi
26	...	Missouri
27	...	Montana
28	...	Nebraska
29	...	Nevada
30	...	New Hampshire
31	...	New Jersey
32	...	New Mexico
33	...	New York
34	...	North Carolina
35	...	North Dakota
36	...	Ohio
37	...	Oklahoma
38	...	Oregon
39	...	Pennsylvania
40	...	Rhode Island
41	...	South Carolina
42	...	South Dakota
43	...	Tennessee
44	...	Texas
45	...	Utah
46	...	Vermont
47	...	Virginia
48	...	Washington
49	...	West Virginia

Item Location	Item Length	Variable Name, Item and Code Outline
44-45	2	**MPLBIR** **Place of Birth of Mother (Cond't)**

50	...	Wisconsin
51	...	Wyoming
52	...	Puerto Rico
53	...	Virgin Islands
54	...	Guam
55	...	Canada
56	...	Cuba
57	...	Mexico
59	...	Remainder of the World
99	...	Not Classifiable

46	1	**MPLBIRR** **Place of Birth of Mother Recode**

United States Occurrence

1	...	Born in the 50 States and D.C.
2	...	Born outside the 50 States and DC
3	...	Unknown or not stated

Puerto Rico/Virgin Island/ Guam Occurrence

Blank	...	This item not recorded

47-48	2	**DTOTORD** **Detail Total Birth Order**

Sum of live birth order and other terminations of pregnancy. If either item is unknown, this item is made unknown.

01-40	...	Total number of live births and other terminations of pregnancy
99	...	Unknown

49-50	2	**DLIVORD** **Detail Live Birth Order**

Sum of live births now living and now dead plus one. If either item is unknown, this item is made unknown.

00-31	...	Number of children born alive to mother
99	...	Unknown

Item Location	Item Length	Variable Name, Item and Code Outline
51-52	2	**MONPRE** **Detail Month of Pregnancy Prenatal Care Began** 00 ... No prenatal care 01 ... 1st month 02 ... 2nd month 03 ... 3rd month 04 ... 4th month 05 ... 5th month 06 ... 6th month 07 ... 7th month 08 ... 8th month 09 ... 9th month 99 ... Unknown or not stated
53	1	**MPRE5** **Month Prenatal Care Began Recode 5** 1 ... 1st Trimester (1st-3rd month) 2 ... 2nd Trimester (4th-6th month) 3 ... 3rd Trimester (7th-9th month) 4 ... No prenatal care 5 ... Unknown or not stated
54-55	2	**NPREVIST** **Total Number of Prenatal Visits** 00 ... No prenatal visits 01-48 ... Stated number of visits 49 ... 49 or more visits 99 ... Unknown or not stated
56	1	**ADEQUACY** **Adequacy of Care Recode (Kessner Index)** This code is based on a modified Kessner criterion. Month Prenatal Care Began, Number of Prenatal Visits, and Gestation are the items used to generate this recode. 1 ... Adequate 2 ... Intermediate 3 ... Inadequate 4 ... Unknown
57-59	3	**R1** **Reserved Positions**

Item Location	Item Length	Variable Name, Item and Code Outline
60	1	**FAGERFLG** **Reported Age of Father Used Flag** This position is flagged whenever the Father's reported age in years is used. The reported age is used, if valid, when age derived from date of birth is not available or when it is less than 10. Blank ... Reported age is not used 1 ... Reported age is used
61-62	2	**DFAGE** **Age of Father** This item is either computed from date of birth of father and of child or is the reported age. This is the age item used in NCHS publications. 10-98 ... Age in single years 99 ... Unknown or not stated
63	1	**ORFATH** **Hispanic Origin of Father** Hispanic origin is reported for all areas except Puerto Rico. 0 ... Non-Hispanic 1 ... Mexican 2 ... Puerto Rican 3 ... Cuban 4 ... Central or South American 5 ... Other and unknown Hispanic 9 ... Origin unknown or not stated
64	1	**ORRACEF** **Hispanic Origin and Race of Father Recode** Hispanic origin is reported for all areas except Puerto Rico. 1 ... Mexican 2 ... Puerto Rican 3 ... Cuban 4 ... Central or South American 5 ... Other and unknown Hispanic 6 ... Non-Hispanic White 7 ... Non-Hispanic Black 8 ... Non-Hispanic other or unknown race 9 ... Origin unknown or not stated

Item Location	Item Length	Variable Name, Item and Code Outline
65-66	2	**FRACE** **Race of Father**

Beginning with 1992 data, some areas started reporting additional Asian or Pacific Islander codes for race. See reporting flags. Codes 18 -68 replace old code 08 for these areas. Code 78 replaces old code 08 for all other areas. Code 09 (all other races) has been changed to 99.

United States Occurrence

01	...	White
02	...	Black
03	...	American Indian (includes Aleuts and Eskimos)
04	...	Chinese
05	...	Japanese
06	...	Hawaiian (includes part-Hawaiian)
07	...	Filipino
18	...	Asian Indian
28	...	Korean
38	...	Samoan
48	...	Vietnamese
58	...	Guamanian
68	...	Other Asian or Pacific Islander in areas reporting codes 18-58
78	...	Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately
99	...	Unknown or not stated

Puerto Rico Occurrence

00	...	Other races
01	...	White
02	...	Black
99	...	Unknown or not stated

Virgin Islands Occurrence

01	...	White
02	...	Black
03	...	American Indian (includes Aleuts and Eskimos)
04	...	Chinese
05	...	Japanese
06	...	Hawaiian (includes part-Hawaiian)
07	...	Filipino
08	...	Other Asian or Pacific Islander
99	...	Unknown or not stated

Item Location	Item Length	Variable Name, Item and Code Outline
65-66	2	**FRACE** **Race of Father (Cond't)** **Guam Occurrence** 01 ... White 02 ... Black 03 ... American Indian (includes Aleuts and Eskimos) 04 ... Chinese 05 ... Japanese 06 ... Hawaiian (includes part-Hawaiian) 07 ... Filipino 08 ... Other Asian or Pacific Islander 58 ... Guamanian 99 ... Unknown or not stated
67	1	**PLDEL** **Place or Facility of Delivery** 1 ... Hospital 2 ... Freestanding Birthing Center 3 ... Clinic or Doctor's Office 4 ... A Residence 5 ... Other 9 ... Unknown or Not Stated
68	1	**BIRATTND** **Attendant at Delivery** 1 ... Doctor of Medicine (M.D.) 2 ... Doctor of Osteopathy (D.O.) 3 ... Certified Nurse Midwife (C.N.M.) 4 ... Other Midwife 5 ... Other 9 ... Unknown or not stated
69	1	**R2** **Reserved position**
70	1	**GESTESTM** **Clinical Estimate of Gestation Used Flag** This position is flagged whenever the clinical estimate of gestation is used. It is used when gestation could not be computed or when the computed gestation is outside the 17-47 code range. Blank ... Clinical Estimate is not used 1 ... Clinical Estimate is used

Item Location	Item Length	Variable Name, Item and Code Outline
71-72	2	**CLINGEST** **Clinical Estimate of Gestation** Clinical estimate is not reported by all areas. See reporting flags. 17-47 ... Estimated gestation in weeks 99 ... Unknown or not stated
73	1	**GESTIMP** **Gestation Imputation Flag** Blank ... Gestation is not imputed 1 ... Gestation is imputed
74-75	2	**GESTAT** **Gestation - Detail in Weeks** This item is: a) computed using dates of birth of child and last normal menses; b) imputed from LMP date; c) the clinical estimate; or d) unknown when there is insufficient data to impute or no valid clinical estimate. This is the gestation item used in NCHS publications. 17-47 ... 17th through 47th week of gestation 99 ... Unknown
76-77	2	**GESTAT 10** **GESTATION RECODE 10** 01 ... Under 20 weeks 02 ... 20 - 27 weeks 03 ... 28 - 31 weeks 04 ... 32 - 35 weeks 05 ... 36 weeks 06 ... 37 - 39 weeks 07 ... 40 weeks 08 ... 41 weeks 09 ... 42 weeks and over 10 ... Not stated
78	1	**CSEXIMP** **Sex Imputation Flag** Blank ... Sex is not imputed 1 ... Sex is imputed
79	1	**CSEX** **Sex** 1 ... Male 2 ... Female

Item Location	Item Length	Variable Name, Item and Code Outline
80-87	8	**BIRTHWEIGHT** Beginning in 1995, an imputation for not-stated birthweight was added to reduce potential bias in the data (see section on Changes beginning with the 1995 data year in the introductory text to this documentation). The following imputation flag can be used to delete imputed values for those researchers wishing to use only reported birthweight data.
80	1	**BWIF** **Birth Weight Imputation Flag** Blank ... Birthweight is not imputed 1 ... Birthweight is imputed
81-84	4	**DBIRWT** **Birth Weight Detail in Grams (Imputed)** 0227-8165 ... Number of grams 9999 ... Not stated birth weight
85-86	2	**BIRWT12** **Birth Weight Recode 12 (Imputed)** 01 ... 499 grams or less 02 ... 500-999 grams 03 ... 1000-1499 grams 04 ... 1500-1999 grams 05 ... 2000-2499 grams 06 ... 2500-2999 grams 07 ... 3000-3499 grams 08 ... 3500-3999 grams 09 ... 4000-4499 grams 10 ... 4500-4999 grams 11 ... 5000-8165 grams 12 ... Unknown or not stated
87	1	**BIRWT4** **Birth Weight Recode 4 (Imputed)** 1 ... 1499 grams or less 2 ... 1500-2499 grams 3 ... 2500 grams or more 4 ... Unknown or not stated
88	1	**PLURIMP** **Plurality Imputation Flag** Blank ... Plurality is not imputed 1 ... Plurality is imputed

Item Location	Item Length	Variable Name, Item and Code Outline
89	1	**DPLURAL** **Plurality** 1 ... Single 2 ... Twin 3 ... Triplet 4 ... Quadruplet 5 ... Quintuplet or higher
90-91	2	**FMAPS** **Five-Minute Apgar Score** Apgar score is not reported by all areas. See reporting flags. 00-10 ... A score of 0-10 99 ... Unknown or not stated
92-186 95		**MEDINFO** **Medical and Health Data** Some States do not report an entire item while other States do not report all of the categories within an item. If an item is not reported, it is indicated by code zero in the appropriate reporting flag. If a category within an item is not reported it is indicated by code 8 in the position for that category.
92-99	8	**DELMETH** **Method of Delivery** Each method is assigned a separate position, and the code structure for each method (position) is: 1 ... The method was used 2 ... The method was not used 8 ... Method not on certificate 9 ... Method unknown or not stated
92	1	**VAGINAL** **Vaginal**
93	1	**VBAC** **Vaginal Birth After Previous C-Section**
94	1	**PRIMAC** **Primary C-Section**
95	1	**REPEAC** **Repeat C-Section**
96	1	**FORCEP** **Forceps**

Item Location	Item Length	Variable Name, Item and Code Outline
97	1	**VACUUM** **Vacuum**
98	1	**R3** **Reserved Position**
99	1	**DELMETH5** **Method of Delivery Recode** 1 ... Vaginal (excludes Vaginal after previous C-section) 2 ... Vaginal birth after previous C section 3 ... Primary C-section 4 ... Repeat C-Section 5 ... Not stated
100-117	18	**MEDRISK** **Medical Risk Factors** Each risk factor is assigned a separate position, and the code structure for each risk factor (position) is: 1 ... Factor reported 2 ... Factor not reported 8 ... Factor not on certificate 9 ... Factor not classifiable
100	1	**MRFLAG** **No Medical Risk Factors Reported Flag** Blank ... One or more medical risk factors coded, one, eight, or nine 2 ... No medical risk factors reported. Each factor is coded a two.
101	1	**ANEMIA** **Anemia (Hct.<30/Hgb.<10)**
102	1	**CARDIAC** **Cardiac disease**
103	1	**LUNG** **Acute or chronic lung disease**
104	1	**DIABETES** **Diabetes**
105	1	**HERPES** **Genital herpes**
106	1	**HYDRA** **Hydramnios/Oligohydramnios**

Item Location	Item Length	Variable Name, Item and Code Outline
107	1	**HEMO** **Hemoglobinopathy**
108	1	**CHYPER** **Hypertension, chronic**
109	1	**PHYPER** **Hypertension, pregnancy-associated**
110	1	**ECLAMP** **Eclampsia**
111	1	**INCERVIX** **Incompetent cervix**
112	1	**PRE4000** **Previous infant 4000+ grams**
113	1	**PRETERM** **Previous preterm or small-for-gestational-age infant**
114	1	**RENAL** **Renal disease**
115	1	**RH** **Rh sensitization**
116	1	**UTERINE** **Uterine bleeding**
117	1	**OTHERMR** **Other Medical Risk Factors**
118-128	11	**OTHERRSK** **Other Risk Factors for this Pregnancy**
118-121	4	**TOBACRSK** **Tobacco Risks**
118	1	**TOBACCO** **Tobacco Use During Pregnancy** 1 ... Yes 2 ... No 9 ... Unknown or not stated
119-120	2	**CIGAR** **Average Number of Cigarettes Per Day** 00-97 ... As stated 98 ... 98 or more cigarettes per day 99 ... Unknown or not stated

Item Location	Item Length	Variable Name, Item and Code Outline
121	1	**CIGAR6** **Average Number of Cigarettes Per Day Recode** 0 ... Non-smoker 1 ... 1-5 cigarettes per day 2 ... 6-10 cigarettes per day 3 ... 11-20 cigarettes per day 4 ... 21-40 cigarettes per day 5 ... 41 or more cigarettes per day 6 ... Unknown or not stated
122-125	4	**ALCOHRSK** **Alcohol**
122	1	**ALCOHOL** **Alcohol Use During Pregnancy** 1 ... Yes 2 ... No 9 ... Unknown or not stated
123-124	2	**DRINK** **Average Number of Drinks Per Week** 00-97 ... As stated 98 ... 98 or more drinks per week 99 ... Unknown or not stated
125	1	**DRINK5** **Average Number of Drinks Per Week Recode** 0 ... Non-drinker 1 ... 1 drink per week 2 ... 2 drinks per week 3 ... 3-4 drinks per week 4 ... 5 or more drinks per week 5 ... Unknown or not stated
126-128	3	**WTGANRSK** **Weight Gain During Pregnancy**
126-127	2	**WTGAIN** **Weight Gain** 00-97 ... Stated number of pounds 98 ... 98 pounds or more 99 ... Unknown or not stated

Item Location	Item Length	Variable Name, Item and Code Outline
128	1	**WTGAIN9** **Weight Gain Recode** 1 ... Less than 16 pounds 2 ... 16-20 pounds 3 ... 21-25 pounds 4 ... 26-30 pounds 5 ... 31-35 pounds 6 ... 36-40 pounds 7 ... 41-45 pounds 8 ... 46 or more pounds 9 ... Unknown or not stated
129-136	8	**OBSTETRC** **Obstetric Procedures** Each procedure is assigned a separate position, and the code structure for each procedure (position) is: 1 ... Procedure reported 2 ... Procedure not reported 8 ... Procedure not on certificate 9 ... Procedure not classifiable
129	1	**OBFLAG** **Obstetric Flag** Blank ... One or more obstetric procedures coded, one, eight, or nine 2 ... No obstetric procedures reported. Each factor is coded a two.
130	1	**AMNIO** **Amniocentesis**
131	1	**MONITOR** **Electronic fetal monitoring**
132	1	**INDUCT** **Induction of labor**
133	1	**STIMULA** **Stimulation of labor**
134	1	**TOCOL** **Tocolysis**
135	1	**ULTRAS** **Ultrasound**
136	1	**OTHEROB** **Other Obstetric Procedures**

Item Location	Item Length	Variable Name, Item and Code Outline
137-153	17	**LABOR** **Complications of Labor and/or Delivery** Each complication is assigned a separate position, and the code structure for each complication (position) is: 1 ... Complication reported 2 ... Complication not reported 8 ... Complication not on certificate 9 ... Complication not classifiable
137	1	**FBFLAG** **Labor Flag** Blank ... One or more labor and/or delivery complications coded, one, eight, or nine 2 ... No labor and/or delivery complication reported. Each factor is coded a two.
138	1	**FEBRILE** **Febrile (>100 degrees F. or 38 degrees C.)**
139	1	**MECONIUM** **Meconium, moderate/heavy**
140	1	**RUPTURE** **Premature rupture of membrane (>12 hours)**
141	1	**ABRUPTIO** **Abruptio placenta**
142	1	**PREPLACE** **Placenta previa**
143	1	**EXCEBLD** **Other excessive bleeding**
144	1	**SEIZURE** **Seizures during labor**
145	1	**PRECIP** **Precipitous labor (<3 hours)**
146	1	**PROLONG** **Prolonged labor (>20 hours)**
147	1	**DYSFUNC** **Dysfunctional labor**
148	1	**BREECH** **Breech/Malpresentation**

Item Location	Item Length	Variable Name, Item and Code Outline
149	1	**CEPHALO** **Cephalopelvic disproportion**
150	1	**CORD** **Cord prolapse**
151	1	**ANESTHE** **Anesthetic complications**
152	1	**DISTRESS** **Fetal distress**
153	1	**OTHERLB** **Other Complications of Labor and/or Delivery**
154-163	10	**NEWBORN** **Abnormal conditions of the Newborn** Each condition is assigned a separate position, and the code structure for each condition (position)is: 1 ... Condition reported 2 ... Condition not reported 8 ... Condition not on certificate 9 ... Condition not classifiable
154	1	**NBFLAG** **Newborn Flag** Blank ... One or more abnormal conditions of the newborn coded, one, eight, or nine 2 ... No abnormal condition of the newborn reported. Each factor is coded a two.
155	1	**NANEMIA** **Anemia Hct.>39/Hgb.<13)**
156	1	**INJURY** **Birth injury**
157	1	**ALCOSYN** **Fetal alcohol syndrome**
158	1	**HYALINE** **Hyaline membrane disease**
159	1	**MECONSYN** **Meconium aspiration syndrome**
160	1	**VENL30** **Assisted ventilation, less than 30 minutes**

Item Location	Item Length	Variable Name, Item and Code Outline
161	1	**VEN30M** **Assisted ventilation, 30 minutes or more**
162	1	**NSEIZ** **Seizures**
163	1	**OTHERAB** **Other Abnormal Conditions of the Newborn**
164-186	23	**CONGENIT** **Congenital Anomalies** Each anomaly is assigned a separate position, and the code structure for each anomaly (position) is: 1 ... Anomaly reported 2 ... Anomaly not reported 8 ... Anomaly not on certificate 9 ... Anomaly not classifiable
164	1	**CGFLAG** **Congenital Flag** Blank ... One or more congenital anomalies coded, one, eight, or nine 2 ... No congenital anomaly is reported. Each factor is coded a two.
165	1	**ANEN** **Anencephalus**
166	1	**SPINA** **Spina bifida/Meningocele**
167	1	**HYDRO** **Hydrocephalus**
168	1	**MICROCE** **Microcephalus**
169	1	**NERVOUS** **Other central nervous system anomalies**
170	1	**HEART** **Heart malformations**
171	1	**CIRCUL** **Other circulatory/respiratory anomalies**
172	1	**RECTAL** **Rectal atresia/stenosis**

Item Location	Item Length	Variable Name, Item and Code Outline
173	1	**TRACHEO** **Tracheo-esophageal fistula/Esophageal atresia**
174	1	**OMPHALO** **Omphalocele/Gastroschisis**
175	1	**GASTRO** **Other gastrointestinal anomalies**
176	1	**GENITAL** **Malformed genitalia**
177	1	**RENALAGE** **Renal agenesis**
178	1	**UROGEN** **Other urogenital anomalies**
179	1	**CLEFTLP** **Cleft lip/palate**
180	1	**ADACTYLY** **Polydactyly/Syndactyly/Adactyly**
181	1	**CLUBFOOT** **Club foot**
182	1	**HERNIA** **Diaphragmatic hernia**
183	1	**MUSCULO** **Other musculoskeletal/integumental anomalies**
184	1	**DOWNS** **Down's syndrome**
185	1	**CHROMO** **Other chromosomal anomalies**
186	1	**OTHERCON** **Other congenital anomalies**
187-203	17	**FLRES** **Reporting Flags for Place of Residence** These positions contain flags to indicate whether or not the specified item is included on the birth certificate of the State of residence or of the SMSA of residence. The code structure of each flag (position) is: 0 ... The item is not reported 1 ... The item is reported or partially reported.

Item Location	Item Length	Variable Name, Item and Code Outline
187	1	**ORIGM** **Origin of mother**
188	1	**ORIGF** **Origin of father**
189	1	**EDUCM** **Education of mother**
190	1	**R4** **Reserved Position**
191	1	**GESTE** **Clinical estimate of gestation**
192	1	**R5** **Reserved position**
193	1	**FMAPSRF** **5-minute Apgar score**
194	1	**DELMETRF** **Method of delivery**
195	1	**MEDRSK** **Medical risk factors**
196	1	**TOBUSE** **Tobacco use**
197	1	**ALCUSE** **Alcohol use**
198	1	**WTGN** **Weight gain**
199	1	**OBSTRC** **Obstetric procedures**
200	1	**CLABOR** **Complications of labor and/or delivery**
201	1	**ABNML** **Abnormal conditions of newborn**
202	1	**CONGAN** **Congenital anomalies**
203	1	**API flag** **Race codes 18-68 reported (beginning with 1992 data)**

Item Location	Item Length	Variable Name, Item and Code Outline
204	1	**CDOBMIMP** **Month of Birth of Child Imputation Flag** Blank ... Month is not imputed 1 ... Month is imputed
205-206	2	**BIRMON** **Month of Birth** 01 ... January 02 ... February 03 ... March 04 ... April 05 ... May 06 ... June 07 ... July 08 ... August 09 ... September 10 ... October 11 ... November 12 ... December
207-208	2	**R6** **Reserved Position**
209	1	**WEEKDAYB** **Day of Week Child Born** 1 ... Sunday 2 ... Monday 3 ... Tuesday 4 ... Wednesday 5 ... Thursday 6 ... Friday 7 ... Saturday
210	1	**R7** **Reserved Position**

Locations 211-535 contain data from the Death Certificate. Data in locations 211-222 are included on both the numerator and denominator-plus files. Data in locations 223-535 are include in the numerator file only. Residence items in the Denominator Record and in the natality section of the Numerator (Linked) Record refer to the usual place of residence of the Mother; whereas in the mortality section of the Numerator (Linked) Record, these items refer to the place of residence of the Decedent.

Item Location	Item Length	Variable Name, Item and Code Outline
211-213	3	**AGED** **Age at Death in Days** The generated age at death in days is calculated from the date of death on the death certificate minus the date of birth on the birth certificate unless the reported age of death is less than 2 days, then the reported age is used. If the exact date of birth and/or death is unknown, the age is imputed. 000-364 ... Number of days
214	1	**AGER5** **Infant Age Recode 5** 1 ... Under 1 hour 2 ... 1-23 hours 3 ... 1-6 days 4 ... 7-27 days (late neonatal) 5 ... 28 days and over (postneonatal)
215	1	**ACCIDPL** **Place of Accident for Causes E850-E869 and E880-E928** Blank ... Causes other than E850-E869 and E880-E928 0 ... Home 1 ... Farm 2 ... Mine and quarry 3 ... Industrial place and premises 4 ... Place for recreation and sport 5 ... Street and highway 6 ... Public building 7 ... Resident institution 8 ... Other specified places 9 ... Place of accident not specified
216-219	4	**UCOD** **ICD Code (9th Revision)** See the International Classification of Diseases, 1975 Revision, Volume 1. For injuries and poisoning, the external cause is coded (E800-E999) rather than the Nature of Injury (800-999). These positions do not include the letter E for the external cause of injury. For those causes that do not have a 4th digit, location 219 is blank.

Item Location	Item Length	Variable Name, Item and Code Outline
220-222	3	**UCODR61** **61 Infant Cause Recode** A recode of the ICD cause code into 61 groups for NCHS publications. Further back in this document is a complete list of recodes and the causes included. 010-680 ... Code range (not inclusive)
223-230	8	**RECWT** **Record weight** Beginning in 1995, a record weight was added to the linked file to adjust for the approximately 2-3% of infant death records each year which cannot be linked to their corresponding birth certificates. Weights are generally slightly greater than 1.0 for infant death records, and are set at 1.0 for surviving live birth records. Weights are appropriate for us in some circumstances, but not others — please see Introduction for further details. The weights were used to produce all NCHS linked file tables, including Documentation tables 1-5 included in this tape documentation. The general format for the record weight is the number one followed by a decimal point and six decimal places as follows: 1.XXXXXX

Here ends the Denominator file. Documentation for the Mortality Section of the Numerator (Linked) file begins with multiple conditions in positions 261-504.

Item Location	Item Length	Variable Name, Item and Code Outline
261-504	244	**MULTCOND** **Multiple Conditions** See the "International Classification of Diseases", 1975 Revision, Volume 1. Both the entity-axis and record-axis conditions are coded according to this revision (9th).
261-262	2	**EANUM** **Number of Entity-Axis Conditions** 00-20 ... Code range
263-402	140	**ENTITY** **ENTITY - AXIS CONDITIONS** Space has been provided for a maximum of 20 conditions. Each condition takes 7 positions in the record. Records that do not have 20 conditions are blank in the unused area. Position 1: Part/line number on certificate 1 ... Part I, line 1 (a) 2 ... Part I, line 2 (b) 3 ... Part I, line 3 (c) 4 ... Part I, line 4 (d) 5 ... Part I, line 5 (e) 6 ... Part II, Position 2: Sequence of condition within part/line 1-7 ... Code range Position 3 - 6: Condition code (ICD 9th Revision) Position 7: Nature of Injury Flag 1 ... Indicates that the code in positions 3-6 is a Nature of Injury code 0 ... All other codes
263-269	7	**1st Condition**
270-276	7	**2nd Condition**
277-283	7	**3rd Condition**
284-290	7	**4th Condition**
291-297	7	**5th Condition**

Item Location	Item Length	Variable Name, Item and Code Outline
298-304	7	**6th Condition**
305-311	7	**7th Condition**
312-318	7	**8th Condition**
319-325	7	**9th Condition**
326-332	7	**10th Condition**
333-339	7	**11th Condition**
340-346	7	**12th Condition**
347-353	7	**13th Condition**
354-360	7	**14th Condition**
361-367	7	**15th Condition**
368-374	7	**16th Condition**
375-381	7	**17th Condition**
382-388	7	**18th Condition**
389-395	7	**19th Condition**
396-402	7	**20th Condition**
403-404	2	**RANUM** **Number of Record-Axis Conditions** 00-20 ... Code range
405-504	100	**RECORD** **RECORD - AXIS CONDITIONS** Space has been provided for a maximum of 20 conditions. Each condition takes 5 positions in the record. Records that do not have 20 conditions are blank in the unused area. Positions 1-4: Condition code (ICD 9th Revision) Position 5: Nature of Injury Flag 1 ... Indicates that the code in positions 1-4 is a Nature of Injury code 0 ... All other codes

Item Location	Item Length	Variable Name, Item and Code Outline
405-409	5	**1st Condition**
410-414	5	**2nd Condition**
415-419	5	**3rd Condition**
420-424	5	**4th Condition**
425-429	5	**5th Condition**
430-434	5	**6th Condition**
435-439	5	**7th Condition**
440-444	5	**8th Condition**
445-449	5	**9th Condition**
450-454	5	**10th Condition**
455-459	5	**11th Condition**
460-464	5	**12th Condition**
465-469	5	**13th Condition**
470-474	5	**14th Condition**
475-479	5	**15th Condition**
480-484	5	**16th Condition**
485-489	5	**17th Condition**
490-494	5	**18th Condition**
495-499	5	**19th Condition**
500-504	5	**20th Condition**
505	1	**RESSTATD** **Resident Status - Death** **United States Occurrence** 1 ... RESIDENTS: State and county of occurrence and residence are the same. 2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different. 3 ... INTERSTATE NONRESIDENTS: State of occurrence and residence are different, but both are in the 50 States and D.C. 4 ... FOREIGN RESIDENTS: State of occurrence is one of the 50 States or the District of Columbia, but place of residence is outside of the 50 States and D.C.

Item Location	Item Length	Variable Name, Item and Code Outline
505	1	**RESSTATD** **Resident Status - Death (Cond't)** **Puerto Rico Occurrence** 1 ... RESIDENTS: State and county of occurrence and residence are the same. 2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different. 4 ... FOREIGN RESIDENTS: Occurred in Puerto Rico to a resident of any other place. **Virgin Islands Occurrence** 1 ... RESIDENTS: State and county of occurrence and residence are the same. 2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different. 4 ... FOREIGN RESIDENTS: Occurred in the Virgin Islands to a resident of any other place. **Guam Occurrence** 1 ... RESIDENTS: Occurred in Guam to a resident of Guam or to a resident of the U.S. 4 ... FOREIGN RESIDENTS: Occurred in Guam to a resident of any place other than Guam or the U.S.
506-507	2	**DRSTATE** **Expanded State of Residence - NCHS Codes - Deaths** This item is designed to separately identify New York City records from other New York State records. **United States Occurrence** 01 ... Alabama 02 ... Alaska 03 ... Arizona 04 ... Arkansas 05 ... California 06 ... Colorado 07 ... Connecticut 08 ... Delaware 09 ... District of Columbia 10 ... Florida 11 ... Georgia 12 ... Hawaii 13 ... Idaho 14 ... Illinois 15 ... Indiana 16 ... Iowa 17 ... Kansas 18 ... Kentucky 19 ... Louisiana 20 ... Maine

Item Location	Item Length	Variable Name, Item and Code Outline
506-507	2	**DRSTATE**

Expanded State of Residence - NCHS Codes - Deaths (Cond't)

United States Occurrence

21	...	Maryland
22	...	Massachusetts
23	...	Michigan
24	...	Minnesota
25	...	Mississippi
26	...	Missouri
27	...	Montana
28	...	Nebraska
29	...	Nevada
30	...	New Hampshire
31	...	New Jersey
32	...	New Mexico
33	...	New York
34	...	New York City
35	...	North Carolina
36	...	North Dakota
37	...	Ohio
38	...	Oklahoma
39	...	Oregon
40	...	Pennsylvania
41	...	Rhode Island
42	...	South Carolina
43	...	South Dakota
44	...	Tennessee
45	...	Texas
46	..	Utah
47	...	Vermont
48	...	Virginia
49	...	Washington
50	...	West Virginia
51	...	Wisconsin
52	...	Wyoming
53-58,60	...	Foreign Residents
53	...	Puerto Rico
54	...	Virgin Islands
55	...	Guam
56	...	Canada
57	...	Cuba
58	...	Mexico
60	...	Remainder of the World

Puerto Rico Occurrence

53	...	Puerto Rico
01-52,54-58,60	...	Foreign Residents: Refer to U.S. for specific code structure.

Item Location	Item Length	Variable Name, Item and Code Outline
506-507	2	**DRSTATE** **Expanded State of Residence - NCHS Codes - Deaths (Cond't)**

Virgin Islands Occurrence

54	...	Virgin Islands
01-53,55-58,60	...	Foreign Residents: Refer to U.S. for specific code structure.

Guam Occurrence

55	...	Guam
01-52	...	U.S. resident is also considered a resident of Guam.
53,54,58,60	...	Foreign Residents: Refer to U.S. for specific code structure.

508-512 5 **FIPSOCCD**
Federal Information Processing Standards (FIPS) Geographic Codes (Occurrence) - Death

Refer to the Geographic Code Outline further back in this document for a detailed list of areas and codes. For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications.

508-509 2 **STOCCFIPD**
State of Occurrence (FIPS) - Death

United States

01	...	Alabama
02	...	Alaska
04	...	Arizona
05	...	Arkansas
06	...	California
08	...	Colorado
09	...	Connecticut
10	...	Delaware
11	...	District of Columbia
12	...	Florida
13	...	Georgia
15	...	Hawaii
16	...	Idaho
17	...	Illinois
18	...	Indiana
19	...	Iowa
20	...	Kansas
21	...	Kentucky
22	...	Louisiana
23	...	Maine
24	...	Maryland
25	...	Massachusetts
26	...	Michigan
27	...	Minnesota
28	...	Mississippi
29	...	Missouri
30	...	Montana

Item Location	Item Length	Variable Name, Item and Code Outline
508-509	2	**STOCCFIPD** **State of Occurrence (FIPS) - Death (Cond't)**

United States

31	...	Nebraska
32	...	Nevada
33	...	New Hampshire
34	...	New Jersey
35	...	New Mexico
36	...	New York
37	...	North Carolina
38	...	North Dakota
39	...	Ohio
40	...	Oklahoma
41	...	Oregon
42	...	Pennsylvania
44	...	Rhode Island
45	...	South Carolina
46	...	South Dakota
47	...	Tennessee
48	...	Texas
49	...	Utah
50	...	Vermont
51	...	Virginia
53	...	Washington
54	...	West Virginia
55	...	Wisconsin
56	...	Wyoming

Puerto Rico

72	...	Puerto Rico

Virgin Islands

78	...	Virgin Islands

Guam

66	...	Guam

510-512	3	**CNTOCFIPD** **County of Occurrence (FIPS) - Death**

001-nnn	...	Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State. (Note: To uniquely identify a county, both the State and county codes must be used.)
999	...	County with less than 250,000 population

Item Location	Item Length	Variable Name, Item and Code Outline

513-517 5 **FIPSRESD**

Federal Information Processing Standards (FIPS) Geographic Codes (Residence) - Death

Refer to the Geographic Code Outline further back in this document for a detailed list of areas and codes. For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications.

513-514 2 **STRESFIPD**

State of Residence (FIPS) - Death

United States Occurrence

00	...	Foreign residents
01	...	Alabama
02	...	Alaska
04	...	Arizona
05	...	Arkansas
06	...	California
08	...	Colorado
09	...	Connecticut
10	...	Delaware
11	...	District of Columbia
12	...	Florida
13	...	Georgia
15	...	Hawaii
16	...	Idaho
17	...	Illinois
18	...	Indiana
19	...	Iowa
20	...	Kansas
21	...	Kentucky
22	...	Louisiana
23	...	Maine
24	...	Maryland
25	...	Massachusetts
26	...	Michigan
27	...	Minnesota
28	...	Mississippi
29	...	Missouri
30	...	Montana
31	...	Nebraska
32	...	Nevada
33	...	New Hampshire
34	...	New Jersey
35	...	New Mexico
36	...	New York
37	...	North Carolina
38	...	North Dakota
39	...	Ohio
40	...	Oklahoma

Item Location	Item Length	Variable Name, Item and Code Outline
513-514	2	**STRESFIPD** **State of Residence (FIPS) - Death (Cond't)**

United States Occurrence

41	...	Oregon
42	...	Pennsylvania
44	...	Rhode Island
45	...	South Carolina
46	...	South Dakota
47	...	Tennessee
48	...	Texas
49	...	Utah
50	...	Vermont
51	...	Virginia
53	...	Washington
54	...	West Virginia
55	...	Wisconsin
56	...	Wyoming

Puerto Rico Occurrence

72	...	Puerto Rico
00-56, 66,78	...	Foreign resident: Refer to U.S. for specific code structure.

Virgin Islands Occurrence

78	...	Virgin Islands
00-56, 66,72	...	Foreign resident: Refer to U.S. for specific code structure.

Guam Occurrence

66	...	Guam
01-56, 00,72,78	...	Foreign resident: Refer to U.S. for specific code structure.

515-517	3	**CNTYRFPD** **County of Residence (FIPS) - Death**

000	...	Foreign residents
001-nnn	...	Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State (Note: To uniquely identify a county, both the State and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document.
999	...	County with less than 250,000 population

Item Location	Item Length	Variable Name, Item and Code Outline
518-522	5	**PLRES** **Place (City) of Residence (FIPS)** A complete list of cities is shown in the Geographic code outline further back in this document. 00000 ... Foreign residents 00001-nnnnn ... Code range 99999 ... Balance of county; or city less than 250,000 population
523	1	**HOSPD** **Hospital and Patient Status** 1 ... Hospital, Clinic or Medical Center - Inpatient 2 ... Hospital, Clinic or Medical Center - Outpatient or admitted to Emergency Room 3 ... Hospital, Clinic or Medical Center - Dead on arrival 4 ... Hospital, Clinic or Medical Center - Patient status unknown 5 ... Nursing home 6 ... Residence 7 ... Other 9 ... Place of death unknown
524-527	4	**DTHYR** **Year of Death** 1996 ... Death occurred in 1996 1997 ... Death occurred in 1997
528-529	2	**DTHMON** **Month of Death** 01 ... January 02 ... February 03 ... March 04 ... April 05 ... May 06 ... June 07 ... July 08 ... August 09 ... September 10 ... October 11 ... November 12 ... December
530-531	2	**R8** **Reserved Position**

Item Location	Item Length	Variable Name, Item and Code Outline
532	1	**WEEKDAYD** **Day of Week of Death** 1 ... Sunday 2 ... Monday 3 ... Tuesday 4 ... Wednesday 5 ... Thursday 6 ... Friday 7 ... Saturday 9 ... Unknown
533-535	3	**R9** **Reserved positions**

doctab1

DOCUMENTATION TABLE 1

LIVE BIRTHS AND INFANT DEATHS BY STATE OF OCCURRENCE AND BY STATE OF RESIDENCE AT BIRTH: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, AND GUAM -- 1996 BIRTH COHORT DATA

(RESIDENCE AT BIRTH IS OF THE MOTHER)

AREA	LIVE BIRTHS	
	OCCURRENCE	RESIDENCE
UNITED STATES 2/.....	3,894,874	3,891,494
ALABAMA.....	59,726	60,488
ALASKA.....	9,933	10,037
ARIZONA.....	75,127	75,322
ARKANSAS.....	35,299	36,371
CALIFORNIA.....	539,661	539,433
COLORADO.....	56,059	55,807
CONNECTICUT.....	44,327	44,469
DELAWARE.....	10,651	10,155
DISTRICT OF COLUMBIA.....	14,917	8,390
FLORIDA.....	189,676	189,392
GEORGIA.....	114,748	114,043
HAWAII.....	18,455	18,401
IDAHO.....	18,252	18,625
ILLINOIS.....	180,043	183,180
INDIANA.....	83,558	83,513
IOWA.....	37,356	37,139
KANSAS.....	35,360	36,651
KENTUCKY.....	51,166	52,706
LOUISIANA.....	65,457	65,204
MAINE.....	13,609	13,774
MARYLAND.....	67,765	71,533
MASSACHUSETTS.....	81,212	80,276
MICHIGAN.....	132,050	133,387
MINNESOTA.....	63,497	63,700

MISSISSIPPI.....	40,197	40,987
MISSOURI.....	76,504	73,832

DOCUMENTATION TABLE 1

LIVE BIRTHS AND INFANT DEATHS BY STATE OF OCCURRENCE AND BY STATE OF RESIDENCE AT BIRTH: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, AND GUAM -- 1996 BIRTH COHORT DATA

(RESIDENCE AT BIRTH IS OF THE MOTHER)

AREA	LIVE BIRTHS	
	OCCURRENCE	RESIDENCE
UNITED STATES 2/.....	3,894,874	3,891,494
MONTANA.....	10,790	10,856
NEBRASKA.....	23,487	23,286
NEVADA.....	25,740	26,125
NEW HAMPSHIRE.....	14,008	14,520
NEW JERSEY.....	111,420	114,306
NEW MEXICO.....	26,819	27,228
NEW YORK.....	265,376	263,963
UPSTATE.....	138,495	141,007
CITY.....	126,881	122,956
NORTH CAROLINA.....	105,327	104,470
NORTH DAKOTA.....	9,675	8,347
OHIO.....	152,257	151,692
OKLAHOMA.....	45,133	46,193
OREGON.....	45,677	43,658
PENNSYLVANIA.....	148,985	148,338
RHODE ISLAND.....	13,574	12,652
SOUTH CAROLINA.....	49,212	51,117
SOUTH DAKOTA.....	10,594	10,473
TENNESSEE.....	78,378	73,754

TEXAS	334,197	330,406
UTAH	42,943	42,087
VERMONT	6,461	6,767
VIRGINIA	90,160	92,354
WASHINGTON	76,297	77,945
WEST VIRGINIA	21,772	20,750
WISCONSIN	66,120	67,106
WYOMING	5,867	6,286

DOCUMENTATION TABLE 1

LIVE BIRTHS AND INFANT DEATHS BY STATE OF OCCURRENCE AND BY STATE OF RESIDENCE AT BIRTH: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, AND GUAM -- 1996 BIRTH COHORT DATA

(RESIDENCE AT BIRTH IS OF THE MOTHER)

AREA	LIVE BIRTHS	
	OCCURRENCE	RESIDENCE
UNITED STATES 2/	3,894,874	3,891,494
FOREIGN RESIDENTS	...	3,380
PUERTO RICO 3/	63,255	63,141
VIRGIN ISLANDS 3/	2,001	1,905
GUAM 3/	4,263	4,254

1/ FIGURES ARE BASED ON WEIGHTED DATA ROUNDED TO THE NEAREST INFANT, SO CATEGORIES MAY NOT ADD TO TOTALS.

2/ EXCLUDES DATA FOR PUERTO RICO, VIRGIN ISLANDS, AND GUAM OCCURRENCES

3/ DATA FROM THE PUERTO RICO, VIRGIN ISLANDS, AND GUAM FILE

DOCUMENTATION TABLE 1

LIVE BIRTHS AND INFANT DEATHS BY STATE OF OCCURRENCE AND BY STATE OF RESIDENCE AT BIRTH: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, AND GUAM -- 1996 BIRTH COHORT DATA

(RESIDENCE AT BIRTH IS OF THE MOTHER)

AREA	INFANT DEATHS			
	UNWEIGHTED		WEIGHTED 1/	
	OCCURRENCE	RESIDENCE	OCCURRENCE	RESIDENCE
UNITED STATES 2/.....	27,632	27,618	28,271	28,257
ALABAMA.....	625	625	627	627
ALASKA.....	68	69	70	71
ARIZONA.....	559	563	567	571
ARKANSAS.....	310	335	312	338
CALIFORNIA.....	2,935	2,935	3,109	3,108
COLORADO.....	378	366	381	369

CONNECTICUT	283	289	283	289
DELAWARE	79	80	79	80
DISTRICT OF COLUMBIA	186	119	186	119
FLORIDA	1,339	1,347	1,347	1,355
GEORGIA	1,054	1,036	1,054	1,036
HAWAII	111	108	116	113
IDAHO	120	132	123	135
ILLINOIS	1,499	1,566	1,531	1,599
INDIANA	683	699	701	717
IOWA	246	257	246	257
KANSAS	270	296	272	299
KENTUCKY	378	396	383	402
LOUISIANA	582	573	602	592
MAINE	65	61	65	61
MARYLAND	539	592	543	596
MASSACHUSETTS	398	392	409	403
MICHIGAN	1,051	1,058	1,069	1,076
MINNESOTA	376	359	376	359
MISSISSIPPI	418	458	419	459
MISSOURI	642	563	653	572

DOCUMENTATION TABLE 1

LIVE BIRTHS AND INFANT DEATHS BY STATE OF OCCURRENCE AND BY STATE OF RESIDENCE AT BIRTH: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, AND GUAM -- 1996 BIRTH COHORT DATA

(RESIDENCE AT BIRTH IS OF THE MOTHER)

AREA	INFANT DEATHS			
	UNWEIGHTED		WEIGHTED 1/	
	OCCURRENCE	RESIDENCE	OCCURRENCE	RESIDENCE

UNITED STATES 2/.....	27,632	27,618	28,271	28,257
MONTANA.....	66	72	66	72
NEBRASKA.....	207	192	207	192
NEVADA.....	149	155	152	158
NEW HAMPSHIRE.....	57	62	62	67
NEW JERSEY.....	745	758	762	775
NEW MEXICO.....	160	168	167	175
NEW YORK.....	1,780	1,781	1,818	1,819
UPSTATE.....	867	874	892	899
CITY.....	913	907	926	920
NORTH CAROLINA.....	960	966	966	972
NORTH DAKOTA.....	57	51	57	51
OHIO.....	1,081	1,073	1,160	1,150
OKLAHOMA.....	345	350	376	381
OREGON.....	257	244	257	244
PENNSYLVANIA.....	1,114	1,124	1,181	1,160
RHODE ISLAND.....	80	68	80	68
SOUTH CAROLINA.....	412	421	416	425
SOUTH DAKOTA.....	60	63	60	63
TENNESSEE.....	721	646	723	648
TEXAS.....	2,054	2,031	2,108	2,085
UTAH.....	280	262	284	266
VERMONT.....	54	49	54	49
VIRGINIA.....	673	693	689	709
WASHINGTON.....	448	453	449	454
WEST VIRGINIA.....	159	141	164	145
WISCONSIN.....	464	481	465	482
WYOMING.....	25	40	25	40

DOCUMENTATION TABLE 1

LIVE BIRTHS AND INFANT DEATHS BY STATE OF OCCURRENCE AND BY STATE OF RESIDENCE AT BIRTH: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, AND GUAM -- 1996 BIRTH COHORT DATA

(RESIDENCE AT BIRTH IS OF THE MOTHER)

	INFANT DEATHS

doctab1

AREA	UNWEIGHTED		WEIGHTED 1/	
	OCCURRENCE	RESIDENCE	OCCURRENCE	RESIDENCE
UNITED STATES 2/.....	27,632	27,618	28,271	28,257
FOREIGN RESIDENTS.....	...	14	...	14
PUERTO RICO 3/.....	675	674	...	...
VIRGIN ISLANDS 3/.....	24	25	...	...
GUAM 3/.....	39	39	...	...

1/ FIGURES ARE BASED ON WEIGHTED DATA ROUNDED TO THE NEAREST INFANT, SO CATEGORIES MAY NOT ADD TO TOTALS.

2/ EXCLUDES DATA FOR PUERTO RICO, VIRGIN ISLANDS, AND GUAM OCCURRENCES

3/ DATA FROM THE PUERTO RICO, VIRGIN ISLANDS, AND GUAM FILE

doctab2

DOCUMENTATION TABLE 2

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY RACE OF MOTHER, SEX AND BIRTH WEIGHT OF CHILD: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

RACE OF MOTHER AND SEX	TOTAL	<500 GRAMS	500-749 GRAMS	750-999 GRAMS	1000-1249 GRAMS
ALL RACES 1/					
BOTH SEXES					
LIVE BIRTHS.....	3,891,494	5,813	10,358	11,020	12,491
INFANT DEATHS...	28,257	5,171	5,292	1,827	955
INF.MORT.RATE...	7.3	889.6	510.9	165.8	76.4
MALE					
LIVE BIRTHS.....	1,990,480	2,915	5,256	5,760	6,445
INFANT DEATHS...	15,939	2,635	3,037	1,158	572
INF.MORT.RATE...	8.0	904.1	577.8	201.1	88.7
FEMALE					
LIVE BIRTHS.....	1,901,014	2,898	5,102	5,260	6,046
INFANT DEATHS...	12,318	2,536	2,255	669	383
INF.MORT.RATE...	6.5	875.0	442.0	127.2	63.4
WHITE					
BOTH SEXES					
LIVE BIRTHS.....	3,093,057	3,217	6,047	6,929	8,193
INFANT DEATHS...	18,636	2,872	3,186	1,225	648
INF.MORT.RATE...	6.0	892.7	526.9	176.9	79.1
MALE					
LIVE BIRTHS.....	1,584,423	1,603	3,041	3,705	4,259
INFANT DEATHS...	10,581	1,452	1,822	775	392
INF.MORT.RATE...	6.7	905.7	599.2	209.1	92.1
FEMALE					
LIVE BIRTHS.....	1,508,634	1,614	3,006	3,224	3,934
INFANT DEATHS...	8,055	1,420	1,364	451	255
INF.MORT.RATE...	5.3	879.8	453.8	139.8	64.9
BLACK					
BOTH SEXES					
LIVE BIRTHS.....	594,781	2,403	3,950	3,672	3,783
INFANT DEATHS...	8,397	2,131	1,912	524	261
INF.MORT.RATE...	14.1	886.7	484.0	142.8	69.1
MALE					
LIVE BIRTHS.....	301,474	1,215	2,030	1,818	1,921
INFANT DEATHS...	4,669	1,101	1,100	337	155
INF.MORT.RATE...	15.5	906.2	541.8	185.3	80.9
FEMALE					

LIVE BIRTHS.....	293,307	1,188	1,920	1,854	1,862
INFANT DEATHS...	3,729	1,030	812	187	106
INF.MORT.RATE...	12.7	866.9	422.8	101.1	56.9

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

DOCUMENTATION TABLE 2

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY RACE OF MOTHER, SEX AND BIRTH WEIGHT OF CHILD: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

RACE OF MOTHER AND SEX	TOTAL	1250-1499 GRAMS	1500-1999 GRAMS	2000-2499 GRAMS	2500 GRAMS OR MORE	NOT STATED
ALL RACES 1/						
BOTH SEXES						
LIVE BIRTHS.....	3,891,494	14,469	56,033	177,997	3,601,121	2,192
INFANT DEATHS...	28,257	753	1,679	2,288	9,958	334
INF.MORT.RATE...	7.3	52.1	30.0	12.9	2.8	152.2
MALE						
LIVE BIRTHS.....	1,990,480	7,346	27,503	82,109	1,851,963	1,183
INFANT DEATHS...	15,939	430	889	1,185	5,817	216
INF.MORT.RATE...	8.0	58.6	32.3	14.4	3.1	182.2
FEMALE						
LIVE BIRTHS.....	1,901,014	7,123	28,530	95,888	1,749,158	1,009
INFANT DEATHS...	12,318	323	790	1,103	4,141	118
INF.MORT.RATE...	6.5	45.4	27.7	11.5	2.4	117.0
WHITE						
BOTH SEXES						
LIVE BIRTHS.....	3,093,057	9,648	38,486	123,923	2,895,116	1,498

INFANT DEATHS...	18,636	527	1,160	1,605	7,224	188
INF.MORT.RATE...	6.0	54.6	30.1	13.0	2.5	125.7
MALE						
LIVE BIRTHS.....	1,584,423	4,970	19,118	57,795	1,489,124	808
INFANT DEATHS...	10,581	307	619	853	4,231	129
INF.MORT.RATE...	6.7	61.7	32.4	14.8	2.8	159.6
FEMALE						
LIVE BIRTHS.....	1,508,634	4,678	19,368	66,128	1,405,992	690
INFANT DEATHS...	8,055	220	541	752	2,993	59
INF.MORT.RATE...	5.3	47.0	27.9	11.4	2.1	85.9
BLACK						
BOTH SEXES						
LIVE BIRTHS.....	594,781	4,197	14,960	44,591	516,749	476
INFANT DEATHS...	8,397	193	436	560	2,257	124
INF.MORT.RATE...	14.1	45.9	29.1	12.5	4.4	259.7
MALE						
LIVE BIRTHS.....	301,474	2,045	7,078	19,880	265,230	257
INFANT DEATHS...	4,669	105	229	273	1,295	74
INF.MORT.RATE...	15.5	51.3	32.3	13.7	4.9	288.8
FEMALE						
LIVE BIRTHS.....	293,307	2,152	7,882	24,711	251,519	219
INFANT DEATHS...	3,729	88	207	287	962	49
INF.MORT.RATE...	12.7	40.8	26.3	11.6	3.8	225.6

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

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DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT		GESTATION			
	TOTAL	<28 WEEKS	28-31 WEEKS	32-35 WEEKS	36 WEEKS
ALL RACES 1/					
TOTAL					
LIVE BIRTHS.....	3,891,494	27,456	45,275	198,918	151,458
INFANT DEATHS.....	28,257	11,468	2,151	2,625	1,064
INF. MORT. RATE....	7.3	417.7	47.5	13.2	7.0
LESS THAN 2,500 GRAMS					
LIVE BIRTHS.....	288,181	26,335	33,541	92,026	32,008
INFANT DEATHS.....	17,966	11,445	2,056	1,949	465
INF. MORT. RATE....	62.3	434.6	61.3	21.2	14.5
LESS THAN 500 GRAMS					
LIVE BIRTHS.....	5,813	5,419	203	22	2
INFANT DEATHS.....	5,171	4,892	132	15	2
INF. MORT. RATE....	889.6	902.7	648.7	690.9	1009.5
500-749 GRAMS					
LIVE BIRTHS.....	10,358	8,715	1,256	146	8
INFANT DEATHS.....	5,292	4,760	357	50	1
INF. MORT. RATE....	510.9	546.1	284.5	345.3	132.1
750-999 GRAMS					
LIVE BIRTHS.....	11,020	6,679	3,494	476	29
INFANT DEATHS.....	1,827	1,309	392	73	5
INF. MORT. RATE....	165.8	195.9	112.3	152.6	174.2
1,000-1,249 GRAMS					
LIVE BIRTHS.....	12,491	2,842	6,680	2,026	143
INFANT DEATHS.....	955	311	406	160	11
INF. MORT. RATE....	76.4	109.3	60.8	78.8	78.1
1,250-1,499 GRAMS					
LIVE BIRTHS.....	14,469	872	7,254	4,621	401
INFANT DEATHS.....	753	70	320	236	33
INF. MORT. RATE....	52.1	79.9	44.2	51.0	81.6

1,500-1,999 GRAMS					
LIVE BIRTHS.....	56,033	1,036	10,539	29,210	4,715
INFANT DEATHS.....	1,679	77	339	703	136
INF. MORT. RATE....	30.0	74.7	32.2	24.1	28.9

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT		GESTATION			
	TOTAL	<28 WEEKS	28-31 WEEKS	32-35 WEEKS	36 WEEKS
ALL RACES 1/					
2,000-2,499 GRAMS					
LIVE BIRTHS.....	177,997	772	4,115	55,525	26,710
INFANT DEATHS.....	2,288	27	108	712	277
INF. MORT. RATE....	12.9	34.5	26.3	12.8	10.4
2,500-2,999 GRAMS					
LIVE BIRTHS.....	639,450	1,121	4,312	49,869	55,194
INFANT DEATHS.....	3,265	23	45	408	350
INF. MORT. RATE....	5.1	20.9	10.5	8.2	6.3
3,000-3,499 GRAMS					
LIVE BIRTHS.....	1,435,306	-	4,968	36,346	43,575
INFANT DEATHS.....	3,758	-	37	183	165
INF. MORT. RATE....	2.6	-	7.4	5.0	3.8
3,500-3,999 GRAMS					
LIVE BIRTHS.....	1,127,827	-	2,454	16,303	16,391
INFANT DEATHS.....	2,194	-	13	63	65
INF. MORT. RATE....	1.9	-	5.4	3.9	4.0
4,000-4,499 GRAMS					
LIVE BIRTHS.....	336,685	-	-	3,733	3,584

INFANT DEATHS.....	582	-	-	17	13
INF. MORT. RATE....	1.7	-	-	4.6	3.7
4,500-4,999 GRAMS					
LIVE BIRTHS.....	55,583	-	-	564	628
INFANT DEATHS.....	120	-	-	4	4
INF. MORT. RATE....	2.2	-	-	7.3	6.4
5,000 GRAMS OR MORE					
LIVE BIRTHS.....	6,270	-	-	77	78
INFANT DEATHS.....	38	-	-	-	2
INF. MORT. RATE....	6.0	-	-	-	26.4
NOT STATED					
LIVE BIRTHS.....	2,192	-	-	-	-
INFANT DEATHS.....	334	-	-	-	-
INF. MORT. RATE....	152.2	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT	TOTAL	GESTATION <28 WEEKS	28-31 WEEKS	32-35 WEEKS	36 WEEKS
WHITE					
TOTAL					
LIVE BIRTHS.....	3,093,057	15,912	29,484	141,145	113,382
INFANT DEATHS.....	18,636	6,737	1,464	1,868	754
INF. MORT. RATE....	6.0	423.4	49.7	13.2	6.7
LESS THAN 2,500 GRAMS					
LIVE BIRTHS.....	196,443	15,285	22,109	65,133	22,652
INFANT DEATHS.....	11,223	6,724	1,404	1,392	315
INF. MORT. RATE....	57.1	439.9	63.5	21.4	13.9

LESS THAN 500 GRAMS					
LIVE BIRTHS.....	3,217	2,979	126	11	2
INFANT DEATHS.....	2,872	2,706	80	7	2
INF. MORT. RATE....	892.7	908.4	636.0	642.4	1009.5
500-749 GRAMS					
LIVE BIRTHS.....	6,047	4,973	835	92	6
INFANT DEATHS.....	3,186	2,841	237	30	-
INF. MORT. RATE....	526.9	571.3	284.1	325.6	-
750-999 GRAMS					
LIVE BIRTHS.....	6,929	4,067	2,297	307	18
INFANT DEATHS.....	1,225	858	281	52	3
INF. MORT. RATE....	176.9	211.0	122.2	169.9	168.7
1,000-1,249 GRAMS					
LIVE BIRTHS.....	8,193	1,797	4,380	1,409	94
INFANT DEATHS.....	648	210	265	122	7
INF. MORT. RATE....	79.1	116.6	60.5	86.6	75.7
1,250-1,499 GRAMS					
LIVE BIRTHS.....	9,648	481	4,861	3,179	282
INFANT DEATHS.....	527	39	226	166	22
INF. MORT. RATE....	54.6	80.9	46.4	52.3	79.7
1,500-1,999 GRAMS					
LIVE BIRTHS.....	38,486	570	7,175	20,320	3,241
INFANT DEATHS.....	1,160	53	233	504	90
INF. MORT. RATE....	30.1	92.5	32.5	24.8	27.8

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT		GESTATION			
	TOTAL	<28 WEEKS	28-31 WEEKS	32-35 WEEKS	36 WEEKS

WHITE

2,000-2,499 GRAMS					
LIVE BIRTHS.....	123,923	418	2,435	39,815	19,009
INFANT DEATHS.....	1,605	18	82	510	190
INF. MORT. RATE....	13.0	42.0	33.6	12.8	10.0
2,500-2,999 GRAMS					
LIVE BIRTHS.....	459,079	627	2,445	35,316	41,081
INFANT DEATHS.....	2,250	13	29	292	269
INF. MORT. RATE....	4.9	21.1	11.8	8.3	6.5
3,000-3,499 GRAMS					
LIVE BIRTHS.....	1,127,613	-	3,160	25,167	33,432
INFANT DEATHS.....	2,707	-	24	126	105
INF. MORT. RATE....	2.4	-	7.5	5.0	3.2
3,500-3,999 GRAMS					
LIVE BIRTHS.....	956,468	-	1,770	12,099	12,772
INFANT DEATHS.....	1,668	-	8	41	48
INF. MORT. RATE....	1.7	-	4.7	3.4	3.7
4,000-4,499 GRAMS					
LIVE BIRTHS.....	297,023	-	-	2,949	2,860
INFANT DEATHS.....	471	-	-	13	11
INF. MORT. RATE....	1.6	-	-	4.5	3.9
4,500-4,999 GRAMS					
LIVE BIRTHS.....	49,516	-	-	425	519
INFANT DEATHS.....	97	-	-	3	4
INF. MORT. RATE....	2.0	-	-	7.3	7.8
5,000 GRAMS OR MORE					
LIVE BIRTHS.....	5,417	-	-	56	66
INFANT DEATHS.....	31	-	-	-	2
INF. MORT. RATE....	5.7	-	-	-	31.2
NOT STATED					
LIVE BIRTHS.....	1,498	-	-	-	-
INFANT DEATHS.....	188	-	-	-	-
INF. MORT. RATE....	125.7	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT	TOTAL	GESTATION <28 WEEKS	28-31 WEEKS	32-35 WEEKS	36 WEEKS
BLACK					
TOTAL					
LIVE BIRTHS.....	594,781	10,596	13,766	48,020	30,157
INFANT DEATHS.....	8,397	4,341	591	637	257
INF. MORT. RATE....	14.1	409.7	42.9	13.3	8.5
LESS THAN 2,500 GRAMS					
LIVE BIRTHS.....	77,556	10,164	10,021	22,881	7,719
INFANT DEATHS.....	6,016	4,331	561	474	125
INF. MORT. RATE....	77.6	426.1	55.9	20.7	16.2
LESS THAN 500 GRAMS					
LIVE BIRTHS.....	2,403	2,268	69	11	-
INFANT DEATHS.....	2,131	2,034	46	8	-
INF. MORT. RATE....	886.7	896.6	670.1	739.4	-
500-749 GRAMS					
LIVE BIRTHS.....	3,950	3,452	377	47	2
INFANT DEATHS.....	1,912	1,752	105	20	1
INF. MORT. RATE....	484.0	507.6	277.8	435.3	528.6
750-999 GRAMS					
LIVE BIRTHS.....	3,672	2,378	1,065	138	9
INFANT DEATHS.....	524	400	92	16	2
INF. MORT. RATE....	142.8	168.2	86.7	117.9	223.9
1,000-1,249 GRAMS					
LIVE BIRTHS.....	3,783	943	2,014	539	45
INFANT DEATHS.....	261	85	122	34	3
INF. MORT. RATE....	69.1	89.7	60.6	63.9	67.8
1,250-1,499 GRAMS					
LIVE BIRTHS.....	4,197	358	2,092	1,250	99
INFANT DEATHS.....	193	29	83	60	5
INF. MORT. RATE....	45.9	80.2	39.8	48.0	51.6
1,500-1,999 GRAMS					
LIVE BIRTHS.....	14,960	435	2,896	7,648	1,219
INFANT DEATHS.....	436	24	87	169	39
INF. MORT. RATE....	29.1	54.3	29.9	22.2	31.7

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT	TOTAL	GESTATION <28 WEEKS	28-31 WEEKS	32-35 WEEKS	36 WEEKS
BLACK					
2,000-2,499 GRAMS					
LIVE BIRTHS.....	44,591	330	1,508	13,248	6,345
INFANT DEATHS.....	560	8	25	165	75
INF. MORT. RATE....	12.5	24.6	16.9	12.5	11.9
2,500-2,999 GRAMS					
LIVE BIRTHS.....	138,732	432	1,636	12,099	11,181
INFANT DEATHS.....	861	10	13	97	70
INF. MORT. RATE....	6.2	23.5	8.1	8.0	6.3
3,000-3,499 GRAMS					
LIVE BIRTHS.....	224,489	-	1,538	8,960	7,855
INFANT DEATHS.....	867	-	12	47	48
INF. MORT. RATE....	3.9	-	7.9	5.2	6.1
3,500-3,999 GRAMS					
LIVE BIRTHS.....	121,602	-	571	3,351	2,776
INFANT DEATHS.....	422	-	5	16	13
INF. MORT. RATE....	3.5	-	8.9	4.8	4.7
4,000-4,499 GRAMS					
LIVE BIRTHS.....	27,219	-	-	612	531
INFANT DEATHS.....	88	-	-	3	1
INF. MORT. RATE....	3.2	-	-	4.9	2.0
4,500-4,999 GRAMS					
LIVE BIRTHS.....	4,142	-	-	100	85
INFANT DEATHS.....	15	-	-	1	-
INF. MORT. RATE....	3.7	-	-	10.0	-
5,000 GRAMS OR MORE					
LIVE BIRTHS.....	565	-	-	17	10
INFANT DEATHS.....	4	-	-	-	-
INF. MORT. RATE....	7.2	-	-	-	-

NOT STATED					
LIVE BIRTHS.....	476	-	-	-	-
INFANT DEATHS.....	124	-	-	-	-
INF. MORT. RATE....	259.7	-	-	-	-

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK
- DATA NOT AVAILABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT		GESTATION				
	TOTAL	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
ALL RACES 1/						
TOTAL						
LIVE BIRTHS.....	3,891,494	1,735,210	868,341	489,474	334,713	40,649
INFANT DEATHS.....	28,257	5,600	2,077	1,276	1,134	862
INF. MORT. RATE....	7.3	3.2	2.4	2.6	3.4	21.2
LESS THAN 2,500 GRAMS						
LIVE BIRTHS.....	288,181	75,125	12,175	6,026	7,199	3,746
INFANT DEATHS.....	17,966	1,134	208	154	168	387
INF. MORT. RATE....	62.3	15.1	17.0	25.6	23.4	103.4
LESS THAN 500 GRAMS						
LIVE BIRTHS.....	5,813	3	4	2	2	

156						
INFANT DEATHS.....	5,171	1	2	2	2	
123						
INF. MORT. RATE....	889.6	365.0	528.6	1028.6	1020.3	
787.6						
500-749 GRAMS						
LIVE BIRTHS.....	10,358	20	4	5	8	
196						
INFANT DEATHS.....	5,292	4	2	1	3	
114						
INF. MORT. RATE....	510.9	203.8	523.8	210.7	383.8	
580.2						
750-999 GRAMS						
LIVE BIRTHS.....	11,020	96	32	25	15	
174						
INFANT DEATHS.....	1,827	10	3	-	2	
33						
INF. MORT. RATE....	165.8	107.2	97.5	-	137.7	
189.0						
1,000-1,249 GRAMS						
LIVE BIRTHS.....	12,491	332	91	66	92	
219						
INFANT DEATHS.....	955	31	5	8	5	
18						
INF. MORT. RATE....	76.4	92.1	56.1	124.2	56.0	
80.3						
1,250-1,499 GRAMS						
LIVE BIRTHS.....	14,469	683	150	92	162	
234						
INFANT DEATHS.....	753	52	12	4	8	
18						
INF. MORT. RATE....	52.1	76.4	83.3	45.8	51.3	
75.9						
1,500-1,999 GRAMS						
LIVE BIRTHS.....	56,033	7,261	1,036	574	861	
801						
INFANT DEATHS.....	1,679	275	41	32	39	
37						
INF. MORT. RATE....	30.0	37.8	39.6	55.6	45.0	
45.9						

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT

DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT	TOTAL	GESTATION 37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
ALL RACES 1/						
2,000-2,499 GRAMS						
LIVE BIRTHS.....	177,997	66,730	10,858	5,262	6,059	1,966
INFANT DEATHS.....	2,288	761	142	107	109	46
INF. MORT. RATE....	12.9	11.4	13.0	20.3	18.0	23.3
2,500-2,999 GRAMS						
LIVE BIRTHS.....	639,450	347,493	92,913	43,252	38,594	6,702
INFANT DEATHS.....	3,265	1,546	399	234	221	37
INF. MORT. RATE....	5.1	4.4	4.3	5.4	5.7	5.6
3,000-3,499 GRAMS						
LIVE BIRTHS.....	1,435,306	718,699	328,817	168,006	120,994	13,901
INFANT DEATHS.....	3,758	1,774	757	423	369	50
INF. MORT. RATE....	2.6	2.5	2.3	2.5	3.1	3.6
3,500-3,999 GRAMS						
LIVE BIRTHS.....	1,127,827	460,975	316,150	187,639	117,693	10,222
INFANT DEATHS.....	2,194	886	538	319	276	34
INF. MORT. RATE....	1.9	1.9	1.7	1.7	2.3	3.3
4,000-4,499 GRAMS						
LIVE BIRTHS.....	336,685	113,520	100,588	70,405	41,596	3,259
INFANT DEATHS.....	582	211	135	113	81	

11						
INF. MORT. RATE....	1.7	1.9	1.3	1.6	1.9	3.5
4,500-4,999 GRAMS						
LIVE BIRTHS.....	55,583	17,307	16,046	12,763	7,734	541
INFANT DEATHS.....	120	39	31	28	13	1
INF. MORT. RATE....	2.2	2.2	2.0	2.2	1.7	1.8
5,000 GRAMS OR MORE						
LIVE BIRTHS.....	6,270	2,091	1,652	1,383	903	86
INFANT DEATHS.....	38	10	9	4	5	7
INF. MORT. RATE....	6.0	4.8	5.6	2.9	5.6	85.6
NOT STATED						
LIVE BIRTHS.....	2,192	-	-	-	-	2,192
INFANT DEATHS.....	334	-	-	-	-	334
INF. MORT. RATE....	152.2	-	-	-	-	152.2

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT	GESTATION					
	TOTAL	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED

WHITE

TOTAL						
LIVE BIRTHS.....	3,093,057	1,374,026	710,854	406,769	270,957	30,528
INFANT DEATHS.....	18,636	3,997	1,522	946	818	530
INF. MORT. RATE....	6.0	2.9	2.1	2.3	3.0	17.3
LESS THAN 2,500 GRAMS						
LIVE BIRTHS.....	196,443	51,638	8,220	4,095	4,886	2,425
INFANT DEATHS.....	11,223	797	137	105	113	237
INF. MORT. RATE....	57.1	15.4	16.7	25.6	23.2	97.6
LESS THAN 500 GRAMS						
LIVE BIRTHS.....	3,217	3	4	2	-	90
INFANT DEATHS.....	2,872	1	2	2	-	71
INF. MORT. RATE....	892.7	365.0	528.6	1028.6	-	790.1
500-749 GRAMS						
LIVE BIRTHS.....	6,047	11	2	4	6	118
INFANT DEATHS.....	3,186	2	2	-	2	72
INF. MORT. RATE....	526.9	187.5	1047.5	-	345.1	606.3
750-999 GRAMS						
LIVE BIRTHS.....	6,929	65	25	20	11	119
INFANT DEATHS.....	1,225	5	1	-	2	23
INF. MORT. RATE....	176.9	79.0	41.4	-	187.7	195.8
1,000-1,249 GRAMS						
LIVE BIRTHS.....	8,193	210	56	46	55	146
INFANT DEATHS.....	648	22	4	5	3	9
INF. MORT. RATE....	79.1	107.0	73.1	112.1	56.0	63.9
1,250-1,499 GRAMS						
LIVE BIRTHS.....	9,648	447	90	58	96	154
INFANT DEATHS.....	527	46	8	1	5	13

INF. MORT. RATE....	54.6	102.9	93.0	18.9	54.3	81.4
1,500-1,999 GRAMS						
LIVE BIRTHS.....	38,486	5,001	677	400	584	518
INFANT DEATHS.....	1,160	187	25	24	23	21
INF. MORT. RATE....	30.1	37.5	36.4	59.2	40.0	40.3

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT		GESTATION				
	TOTAL	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
WHITE						
2,000-2,499 GRAMS						
LIVE BIRTHS.....	123,923	45,901	7,366	3,565	4,134	1,280
INFANT DEATHS.....	1,605	532	95	73	77	28
INF. MORT. RATE....	13.0	11.6	12.9	20.4	18.7	21.9
2,500-2,999 GRAMS						
LIVE BIRTHS.....	459,079	249,748	66,377	31,531	27,453	4,501
INFANT DEATHS.....	2,250	1,050	255	166	151	25

INF. MORT. RATE....	4.9	4.2	3.8	5.3	5.5	5.5
3,000-3,499 GRAMS						
LIVE BIRTHS.....	1,127,613	565,894	260,416	134,359	94,728	10,457
INFANT DEATHS.....	2,707	1,295	551	302	266	37
INF. MORT. RATE....	2.4	2.3	2.1	2.2	2.8	3.6
3,500-3,999 GRAMS						
LIVE BIRTHS.....	956,468	390,328	270,334	161,256	99,553	8,356
INFANT DEATHS.....	1,668	659	430	247	207	28
INF. MORT. RATE....	1.7	1.7	1.6	1.5	2.1	3.3
4,000-4,499 GRAMS						
LIVE BIRTHS.....	297,023	99,483	89,582	62,715	36,668	2,766
INFANT DEATHS.....	471	159	115	98	65	9
INF. MORT. RATE....	1.6	1.6	1.3	1.6	1.8	3.4
4,500-4,999 GRAMS						
LIVE BIRTHS.....	49,516	15,187	14,462	11,577	6,885	461
INFANT DEATHS.....	97	29	25	25	11	-
INF. MORT. RATE....	2.0	1.9	1.8	2.1	1.6	-
5,000 GRAMS OR MORE						
LIVE BIRTHS.....	5,417	1,748	1,463	1,236	784	64
INFANT DEATHS.....	31	8	8	3	4	5
INF. MORT. RATE....	5.7	4.6	5.6	2.5	5.1	82.0
NOT STATED						
LIVE BIRTHS.....	1,498	-	-	-	-	1,498
INFANT DEATHS.....	188	-	-	-	-	188
INF. MORT. RATE....	125.7	-	-	-	-	125.7

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT		GESTATION				
	TOTAL	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
BLACK						
TOTAL						
LIVE BIRTHS.....	594,781	263,430	113,934	61,070	48,351	5,457
INFANT DEATHS.....	8,397	1,322	440	281	268	259
INF. MORT. RATE....	14.1	5.0	3.9	4.6	5.6	47.5
LESS THAN 2,500 GRAMS						
LIVE BIRTHS.....	77,556	18,988	3,283	1,617	1,981	902
INFANT DEATHS.....	6,016	280	54	39	48	106
INF. MORT. RATE....	77.6	14.7	16.4	24.1	24.1	117.2
LESS THAN 500 GRAMS						
LIVE BIRTHS.....	2,403	-	-	-	2	53
INFANT DEATHS.....	2,131	-	-	-	2	41
INF. MORT. RATE....	886.7	-	-	-	1020.3	771.7
500-749 GRAMS						
LIVE BIRTHS.....	3,950	9	1	1	2	59
INFANT DEATHS.....	1,912	2	-	1	1	29
INF. MORT. RATE....	484.0	223.7	-	1053.3	500.0	

495.5						
750-999 GRAMS						
LIVE BIRTHS.....	3,672	27	7	5	4	
39						
INFANT DEATHS.....	524	5	2	-	-	
6						
INF. MORT. RATE....	142.8	190.8	298.0	-	-	
163.2						
1,000-1,249 GRAMS						
LIVE BIRTHS.....	3,783	112	28	16	34	
52						
INFANT DEATHS.....	261	7	1	2	1	
6						
INF. MORT. RATE....	69.1	63.6	35.9	126.6	29.9	
117.5						
1,250-1,499 GRAMS						
LIVE BIRTHS.....	4,197	203	50	29	55	
61						
INFANT DEATHS.....	193	4	3	3	2	
3						
INF. MORT. RATE....	45.9	20.2	61.6	107.6	37.3	
51.7						
1,500-1,999 GRAMS						
LIVE BIRTHS.....	14,960	1,877	298	159	236	
192						
INFANT DEATHS.....	436	71	14	7	13	
12						
INF. MORT. RATE....	29.1	38.1	47.7	45.2	56.1	
60.8						

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)
(RATES ARE PER 1000 LIVE BIRTHS)

			GESTATION			
BIRTH WEIGHT						

	TOTAL	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
BLACK						
2,000-2,499 GRAMS						
LIVE BIRTHS.....	44,591	16,760	2,899	1,407	1,648	446
INFANT DEATHS.....	560	190	33	26	28	8
INF. MORT. RATE....	12.5	11.3	11.6	18.2	17.3	18.6
2,500-2,999 GRAMS						
LIVE BIRTHS.....	138,732	73,564	20,314	9,189	9,042	1,275
INFANT DEATHS.....	861	417	117	60	67	9
INF. MORT. RATE....	6.2	5.7	5.8	6.5	7.4	7.3
3,000-3,499 GRAMS						
LIVE BIRTHS.....	224,489	109,790	49,473	25,096	20,093	1,684
INFANT DEATHS.....	867	397	162	106	83	12
INF. MORT. RATE....	3.9	3.6	3.3	4.2	4.1	7.3
3,500-3,999 GRAMS						
LIVE BIRTHS.....	121,602	49,692	32,189	18,955	13,219	849
INFANT DEATHS.....	422	180	86	62	54	5
INF. MORT. RATE....	3.5	3.6	2.7	3.3	4.1	6.0
4,000-4,499 GRAMS						
LIVE BIRTHS.....	27,219	9,668	7,493	5,315	3,374	226
INFANT DEATHS.....	88	41	16	11	14	2
INF. MORT. RATE....	3.2	4.2	2.2	2.1	4.2	9.4
4,500-4,999 GRAMS						
LIVE BIRTHS.....	4,142	1,494	1,051	800	573	39
INFANT DEATHS.....	15	6	4	2	1	1
INF. MORT. RATE....	3.7	4.1	3.9	2.5	1.8	25.6

5,000 GRAMS OR MORE					
LIVE BIRTHS.....	565	234	131	98	69
6					
INFANT DEATHS.....	4	2	-	1	1
-					
INF. MORT. RATE....	7.2	8.7	-	10.4	14.5
-					
NOT STATED					
LIVE BIRTHS.....	476	-	-	-	-
476					
INFANT DEATHS.....	124	-	-	-	-
124					
INF. MORT. RATE....	259.7	-	-	-	-
259.7					

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK
- DATA NOT AVAILABLE.

doctab4

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND AGE AT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT AND RACE OF MOTHER		LIVE BIRTHS	INFANT	TOTAL NEO-NATAL	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
ALL RACES 1/							
TOTAL (ALL BIRTH WEIGHTS)	NUMBER	3,891,494	28,257	18,537	14,945	3,592	9,720
	RATE		7.3	4.8	3.8	.9	2.5
LESS THAN 2,500 GRAMS	NUMBER	288,181	17,966	14,672	12,476	2,196	3,294
	RATE		62.3	50.9	43.3	7.6	11.4
LESS THAN 500 GRAMS	NUMBER	5,813	5,171	5,083	4,949	133	88
	RATE		889.6	874.4	851.4	23.0	15.2
500-749 GRAMS	NUMBER	10,358	5,292	4,697	3,918	779	595
	RATE		510.9	453.5	378.2	75.2	57.5
750-999 GRAMS	NUMBER	11,020	1,827	1,416	992	424	411
	RATE		165.8	128.5	90.0	38.5	37.3
1,000-1,249 GRAMS	NUMBER	12,491	955	721	535	186	233
	RATE		76.4	57.8	42.9	14.9	18.7
1,250-1,499 GRAMS	NUMBER	14,469	753	519	395	125	234

RATE	52.1	35.9	27.3	8.6	16.2	
1,500-1,999 GRAMS.....NUMBER	56,033	1,679	1,052	827	226	626
RATE	30.0	18.8	14.8	4.0	11.2	
2,000-2,499 GRAMS.....NUMBER	177,997	2,288	1,183	860	322	1,106
RATE	12.9	6.6	4.8	1.8	6.2	
2,500-2,999 GRAMS.....NUMBER	639,450	3,265	1,270	797	473	1,995
RATE	5.1	2.0	1.2	.7	3.1	
3,000-3,499 GRAMS.....NUMBER	1,435,306	3,758	1,271	771	500	2,487
RATE	2.6	.9	.5	.3	1.7	
3,500-3,999 GRAMS.....NUMBER	1,127,827	2,194	727	419	308	1,468
RATE	1.9	.6	.4	.3	1.3	
4,000-4,499 GRAMS.....NUMBER	336,685	582	218	142	76	364
RATE	1.7	.6	.4	.2	1.1	
4,500-4,999 GRAMS.....NUMBER	55,583	120	51	33	18	69
RATE	2.2	.9	.6	.3	1.2	
5,000 GRAMS OR MORE.....NUMBER	6,270	38	20	14	5	18
RATE	6.0	3.1	2.3	.8	2.9	
NOT STATED.....NUMBER	2,192	334	309	294	15	25
RATE	152.2	140.9	133.9	7.0	11.3	

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND AGE AT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA (INFANT DEATHS WEIGHTED)

doctab4

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 1000 LIVE BIRTHS)

BIRTH WEIGHT AND RACE OF MOTHER		LIVE BIRTHS	INFANT	TOTAL NEO-NATAL	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
WHITE							
TOTAL (ALL BIRTH WEIGHTS)	NUMBER	3,093,057	18,636	12,241	9,795	2,446	6,394
	RATE		6.0	4.0	3.2	.8	2.1
LESS THAN 2,500 GRAMS	NUMBER	196,443	11,223	9,274	7,892	1,382	1,950
	RATE		57.1	47.2	40.2	7.0	9.9
LESS THAN 500 GRAMS	NUMBER	3,217	2,872	2,828	2,759	69	44
	RATE		892.7	879.1	857.6	21.5	13.6
500-749 GRAMS	NUMBER	6,047	3,186	2,887	2,439	447	300
	RATE		526.9	477.4	403.4	74.0	49.6
750-999 GRAMS	NUMBER	6,929	1,225	984	699	285	241
	RATE		176.9	142.1	100.9	41.2	34.8
1,000-1,249 GRAMS	NUMBER	8,193	648	514	398	116	134
	RATE		79.1	62.8	48.6	14.2	16.3
1,250-1,499 GRAMS	NUMBER	9,648	527	382	301	81	145
	RATE		54.6	39.6	31.2	8.4	15.0
1,500-1,999 GRAMS	NUMBER	38,486	1,160	781	629	151	379
	RATE		30.1	20.3	16.3	3.9	9.9

2,000-2,499 GRAMS.....NUMBER	123,923	1,605	898	667	231	708
RATE		13.0	7.2	5.4	1.9	5.7
2,500-2,999 GRAMS.....NUMBER	459,079	2,250	969	626	343	1,281
RATE		4.9	2.1	1.4	.7	2.8
3,000-3,499 GRAMS.....NUMBER	1,127,613	2,707	997	611	386	1,710
RATE		2.4	.9	.5	.3	1.5
3,500-3,999 GRAMS.....NUMBER	956,468	1,668	587	341	246	1,081
RATE		1.7	.6	.4	.3	1.1
4,000-4,499 GRAMS.....NUMBER	297,023	471	185	124	61	286
RATE		1.6	.6	.4	.2	1.0
4,500-4,999 GRAMS.....NUMBER	49,516	97	40	27	13	57
RATE		2.0	.8	.5	.3	1.1
5,000 GRAMS OR MORE.....NUMBER	5,417	31	16	11	5	14
RATE		5.7	3.0	2.1	.9	2.6
NOT STATED.....NUMBER	1,498	188	174	164	10	14
RATE		125.7	116.0	109.2	6.8	9.7

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DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND AGE AT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 1000 LIVE BIRTHS)

			TOTAL	EARLY	LATE	POST

BIRTH WEIGHT AND RACE OF MOTHER		LIVE BIRTHS	INFANT	NEO-NATAL	NEO-NATAL	NEO-NATAL	NEO-NATAL
BLACK							
TOTAL (ALL BIRTH WEIGHTS)	NUMBER	594,781	8,397	5,563	4,550	1,013	2,834
	RATE		14.1	9.4	7.6	1.7	4.8
LESS THAN 2,500 GRAMS	NUMBER	77,556	6,016	4,826	4,095	731	1,190
	RATE		77.6	62.2	52.8	9.4	15.3
LESS THAN 500 GRAMS	NUMBER	2,403	2,131	2,087	2,033	54	44
	RATE		886.7	868.6	846.2	22.4	18.2
500-749 GRAMS	NUMBER	3,950	1,912	1,632	1,324	307	280
	RATE		484.0	413.1	335.3	77.8	70.9
750-999 GRAMS	NUMBER	3,672	524	368	246	122	157
	RATE		142.8	100.1	67.0	33.1	42.6
1,000-1,249 GRAMS	NUMBER	3,783	261	176	112	64	85
	RATE		69.1	46.5	29.7	16.8	22.5
1,250-1,499 GRAMS	NUMBER	4,197	193	113	71	41	80
	RATE		45.9	26.8	16.9	9.9	19.1
1,500-1,999 GRAMS	NUMBER	14,960	436	222	154	68	214
	RATE		29.1	14.8	10.3	4.6	14.3
2,000-2,499 GRAMS	NUMBER	44,591	560	229	154	75	331
	RATE		12.5	5.1	3.4	1.7	7.4
2,500-2,999 GRAMS	NUMBER	138,732	861	250	137	113	611
	RATE		6.2	1.8	1.0	.8	4.4

3,000-3,499 GRAMS.....NUMBER	224,489	867	222	127	94	646
RATE		3.9	1.0	.6	.4	2.9
3,500-3,999 GRAMS.....NUMBER	121,602	422	110	57	53	312
RATE		3.5	.9	.5	.4	2.6
4,000-4,499 GRAMS.....NUMBER	27,219	88	28	14	13	61
RATE		3.2	1.0	.5	.5	2.2
4,500-4,999 GRAMS.....NUMBER	4,142	15	8	4	4	7
RATE		3.7	2.0	1.0	1.0	1.7
5,000 GRAMS OR MORE.....NUMBER	565	4	1	1	-	3
RATE		7.2	1.8	1.8	-	5.4
NOT STATED.....NUMBER	476	124	119	113	5	5
RATE		259.7	249.1	238.3	10.7	10.6

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DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
ALL RACES 1/, ALL BIRTH WEIGHTS				
ALL CAUSES	NUMBER	3,891,494	28,257	18,537
	RATE		726.1	476.3
CONGENITAL ANOMALIES (740-759)	NUMBER		6,338	4,599
	RATE		162.9	118.2
PREMATURITY (765)	NUMBER		3,890	3,830
	RATE		100.0	98.4
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		3,067	209
	RATE		78.8	5.4
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		1,371	1,263
	RATE		35.2	32.4
MATERNAL COMPLICATIONS (761)	NUMBER		1,248	1,241
	RATE		32.1	31.9
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		941	925
	RATE		24.2	23.8
ACCIDENTS (E800-E949)	NUMBER		792	93
	RATE		20.4	2.4
INFECTIONS (771)	NUMBER		751	704
	RATE		19.3	18.1
PNEUMONIA AND INFLUENZA (480-487)	NUMBER		443	95
	RATE		11.4	2.4
HYPOXIA AND ASPHYXIA (768)	NUMBER		415	386
	RATE		10.7	9.9

ALL OTHER CAUSES.....NUMBER		9,000	5,192
RATE		231.3	133.4

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
ALL RACES 1/, LESS THAN 2,500 GRAMS				
ALL CAUSES.....	NUMBER	288,181	17,966	14,672
	RATE		6,234.1	5,091.1
CONGENITAL ANOMALIES (740-759).....	NUMBER		3,481	2,802
	RATE		1,208.0	972.3
PREMATURITY (765).....	NUMBER		3,744	3,688
	RATE		1,299.3	1,279.6
SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER		582	21
	RATE		201.9	7.4
RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER		1,318	1,229
	RATE		457.5	426.3
MATERNAL COMPLICATIONS (761).....	NUMBER		1,194	1,188
	RATE		414.4	412.3
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER		793	786
	RATE		275.3	272.8
ACCIDENTS (E800-E949).....	NUMBER		123	19
	RATE		42.8	6.7
INFECTIONS (771).....	NUMBER		613	579
	RATE		212.8	200.8

PNEUMONIA AND INFLUENZA (480-487)....NUMBER		185	56
RATE		64.3	19.5
HYPOXIA AND ASPHYXIA (768).....NUMBER		193	186
RATE		66.9	64.4
ALL OTHER CAUSES.....NUMBER		5,737	4,117
RATE		1,990.9	1,428.8

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
ALL RACES 1/, 2,500 GRAMS OR MORE				
ALL CAUSES.....NUMBER		3,601,121	9,958	3,557
	RATE		276.5	98.8
CONGENITAL ANOMALIES (740-759).....NUMBER			2,830	1,774
	RATE		78.6	49.3
PREMATURITY (765).....NUMBER			28	25
	RATE		.8	.7
SUDDEN INFANT DEATH SYNDROME (798.0).NUMBER			2,479	186
	RATE		68.8	5.2
RESPIRATORY DISTRESS SYNDROME (769)..NUMBER			45	28
	RATE		1.3	.8
MATERNAL COMPLICATIONS (761).....NUMBER			19	18
	RATE		.5	.5
COMPLICATIONS OF PLACENTA,ETC. (762).NUMBER			119	111
	RATE		3.3	3.1

ACCIDENTS (E800-E949).....	NUMBER	664	70
	RATE	18.4	2.0
INFECTIONS (771).....	NUMBER	134	122
	RATE	3.7	3.4
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	254	37
	RATE	7.1	1.0
HYPOXIA AND ASPHYXIA (768).....	NUMBER	213	193
	RATE	5.9	5.4
ALL OTHER CAUSES.....	NUMBER	3,171	992
	RATE	88.1	27.6

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
ALL RACES 1/, NOT STATED BIRTH WEIGHT				
ALL CAUSES.....	NUMBER	2,192	334	309
	RATE		15,219.5	14,089.2
CONGENITAL ANOMALIES (740-759).....	NUMBER		27	23
	RATE		1,249.4	1,057.1
PREMATURITY (765).....	NUMBER		118	117
	RATE		5,377.5	5,331.2
SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER		6	2
	RATE		278.3	91.7
RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER		7	6
	RATE		333.1	285.0
MATERNAL COMPLICATIONS (761).....	NUMBER		34	34

	RATE	1,552.4	1,552.4
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	28	28
	RATE	1,269.2	1,269.2
ACCIDENTS (E800-E949).....	NUMBER	5	3
	RATE	232.0	139.2
INFECTIONS (771).....	NUMBER	4	3
	RATE	193.5	143.7
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	3	2
	RATE	140.0	93.5
HYPOXIA AND ASPHYXIA (768).....	NUMBER	9	8
	RATE	417.3	371.1
ALL OTHER CAUSES.....	NUMBER	92	82
	RATE	4,176.7	3,755.1

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
WHITE, ALL BIRTH WEIGHTS				
ALL CAUSES.....	NUMBER	3,093,057	18,636	12,241
	RATE		602.5	395.8
CONGENITAL ANOMALIES (740-759).....	NUMBER		4,894	3,642
	RATE		158.2	117.7
PREMATURITY (765).....	NUMBER		2,133	2,099
	RATE		69.0	67.8
SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER		2,016	139
	RATE		65.2	4.5

RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER	847	785
	RATE	27.4	25.4
MATERNAL COMPLICATIONS (761).....	NUMBER	782	779
	RATE	25.3	25.2
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	631	622
	RATE	20.4	20.1
ACCIDENTS (E800-E949).....	NUMBER	550	62
	RATE	17.8	2.0
INFECTIONS (771).....	NUMBER	469	445
	RATE	15.2	14.4
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	269	63
	RATE	8.7	2.1
HYPOXIA AND ASPHYXIA (768).....	NUMBER	301	281
	RATE	9.7	9.1
ALL OTHER CAUSES.....	NUMBER	5,744	3,325
	RATE	185.7	107.5

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
WHITE, LESS THAN 2,500 GRAMS				
ALL CAUSES.....	NUMBER	196,443	11,223	9,274
	RATE		5,713.3	4,720.7
CONGENITAL ANOMALIES (740-759).....	NUMBER		2,635	2,157
	RATE		1,341.5	1,097.9

PREMATURITY (765).....	NUMBER	2,057	2,026
	RATE	1,047.1	1,031.1
SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER	336	15
	RATE	171.3	7.8
RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER	811	759
	RATE	412.8	386.4
MATERNAL COMPLICATIONS (761).....	NUMBER	745	743
	RATE	379.2	378.2
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	512	509
	RATE	260.7	259.1
ACCIDENTS (E800-E949).....	NUMBER	79	14
	RATE	40.0	7.3
INFECTIONS (771).....	NUMBER	374	355
	RATE	190.5	180.7
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	101	37
	RATE	51.3	18.8
HYPOXIA AND ASPHYXIA (768).....	NUMBER	122	118
	RATE	62.1	60.1
ALL OTHER CAUSES.....	NUMBER	3,451	2,541
	RATE	1,756.6	1,293.3

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
WHITE, 2,500 GRAMS OR MORE				
ALL CAUSES.....	NUMBER	2,895,116	7,224	2,794

	RATE	249.5	96.5
CONGENITAL ANOMALIES (740-759).....	NUMBER	2,238	1,466
	RATE	77.3	50.6
PREMATURITY (765).....	NUMBER	18	16
	RATE	.6	.6
SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER	1,675	122
	RATE	57.9	4.2
RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER	32	23
	RATE	1.1	.8
MATERNAL COMPLICATIONS (761).....	NUMBER	14	13
	RATE	.5	.5
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	99	93
	RATE	3.4	3.2
ACCIDENTS (E800-E949).....	NUMBER	467	45
	RATE	16.1	1.5
INFECTIONS (771).....	NUMBER	94	89
	RATE	3.2	3.1
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	168	26
	RATE	5.8	.9
HYPOXIA AND ASPHYXIA (768).....	NUMBER	174	159
	RATE	6.0	5.5
ALL OTHER CAUSES.....	NUMBER	2,243	741
	RATE	77.5	25.6

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL

WHITE, NOT STATED BIRTH WEIGHT				
ALL CAUSES	NUMBER	1,498	188	174
	RATE		12,565.4	11,600.4
CONGENITAL ANOMALIES (740-759)	NUMBER		21	19
	RATE		1,405.1	1,264.4
PREMATURITY (765)	NUMBER		58	57
	RATE		3,843.2	3,775.5
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		4	2
	RATE		270.2	134.2
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		4	3
	RATE		281.8	211.5
MATERNAL COMPLICATIONS (761)	NUMBER		23	23
	RATE		1,521.0	1,521.0
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		20	20
	RATE		1,313.2	1,313.2
ACCIDENTS (E800-E949)	NUMBER		4	3
	RATE		271.7	203.6
INFECTIONS (771)	NUMBER		1	1
	RATE		70.4	70.4
PNEUMONIA AND INFLUENZA (480-487)	NUMBER		-	-
	RATE		-	-
HYPOXIA AND ASPHYXIA (768)	NUMBER		4	4
	RATE		273.7	273.7
ALL OTHER CAUSES	NUMBER		50	42
	RATE		3,315.1	2,833.0

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

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(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
BLACK, ALL BIRTH WEIGHTS				
ALL CAUSES	NUMBER	594,781	8,397	5,563
	RATE		1,411.8	935.3
CONGENITAL ANOMALIES (740-759)	NUMBER		1,136	754
	RATE		190.9	126.8
PREMATURITY (765)	NUMBER		1,626	1,601
	RATE		273.5	269.2
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		903	63
	RATE		151.8	10.6
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		470	432
	RATE		79.1	72.6
MATERNAL COMPLICATIONS (761)	NUMBER		431	428
	RATE		72.4	71.9
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		267	261
	RATE		44.9	43.9
ACCIDENTS (E800-E949)	NUMBER		212	25
	RATE		35.7	4.3
INFECTIONS (771)	NUMBER		248	230
	RATE		41.7	38.6
PNEUMONIA AND INFLUENZA (480-487)	NUMBER		152	29
	RATE		25.6	5.0
HYPOXIA AND ASPHYXIA (768)	NUMBER		93	87
	RATE		15.6	14.5
ALL OTHER CAUSES	NUMBER		2,859	1,653
	RATE		480.7	278.0

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10

doctab5

MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
BLACK, LESS THAN 2,500 GRAMS				
ALL CAUSES	NUMBER	77,556	6,016	4,826
	RATE		7,757.5	6,222.8
CONGENITAL ANOMALIES (740-759)	NUMBER		677	518
	RATE		872.6	668.1
PREMATURITY (765)	NUMBER		1,562	1,537
	RATE		2,013.5	1,982.2
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		222	6
	RATE		286.2	7.8
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		458	426
	RATE		590.8	548.7
MATERNAL COMPLICATIONS (761)	NUMBER		416	413
	RATE		536.9	532.9
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		244	240
	RATE		314.1	308.9
ACCIDENTS (E800-E949)	NUMBER		40	5
	RATE		50.9	6.5
INFECTIONS (771)	NUMBER		215	202
	RATE		277.8	260.8
PNEUMONIA AND INFLUENZA (480-487)	NUMBER		77	18
	RATE		99.6	23.7
HYPOXIA AND ASPHYXIA (768)	NUMBER		57	56
	RATE		73.7	72.4
ALL OTHER CAUSES	NUMBER		2,049	1,404
	RATE		2,641.4	1,810.8

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
BLACK, 2,500 GRAMS OR MORE				
ALL CAUSES	NUMBER	516,749	2,257	618
	RATE		436.8	119.7
CONGENITAL ANOMALIES (740-759)	NUMBER		458	235
	RATE		88.6	45.5
PREMATURITY (765)	NUMBER		10	9
	RATE		1.9	1.7
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		681	57
	RATE		131.8	11.0
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		10	4
	RATE		2.0	.8
MATERNAL COMPLICATIONS (761)	NUMBER		4	4
	RATE		.8	.8
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		18	16
	RATE		3.5	3.1
ACCIDENTS (E800-E949)	NUMBER		172	20
	RATE		33.2	3.9
INFECTIONS (771)	NUMBER		30	25
	RATE		5.9	4.9
PNEUMONIA AND INFLUENZA (480-487)	NUMBER		72	9
	RATE		13.9	1.8
HYPOXIA AND ASPHYXIA (768)	NUMBER		31	27

	RATE	6.1	5.3
ALL OTHER CAUSES.....	NUMBER	771	211
	RATE	149.1	40.9

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	INFANT DEATHS	TOTAL NEO-NATAL
BLACK, NOT STATED BIRTH WEIGHT				
ALL CAUSES.....	NUMBER	476	124	119
	RATE		25,973.5	24,909.3
CONGENITAL ANOMALIES (740-759).....	NUMBER		1	1
	RATE		214.4	214.4
PREMATURITY (765).....	NUMBER		55	55
	RATE		11,618.5	11,618.5
SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER		-	-
	RATE		-	-
RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER		2	2
	RATE		436.8	436.8
MATERNAL COMPLICATIONS (761).....	NUMBER		10	10
	RATE		2,152.0	2,152.0
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER		5	5
	RATE		1,081.8	1,081.8
ACCIDENTS (E800-E949).....	NUMBER		1	-
	RATE		213.3	-
INFECTIONS (771).....	NUMBER		2	2
	RATE		440.1	440.1

PNEUMONIA AND INFLUENZA (480-487)....NUMBER	3	2	
RATE	644.5	430.8	
HYPOXIA AND ASPHYXIA (768).....NUMBER	4	3	
RATE	850.3	637.5	
ALL OTHER CAUSES.....NUMBER	40	38	
RATE	8,321.7	7,897.4	

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
ALL RACES 1/, ALL BIRTH WEIGHTS					
ALL CAUSES.....NUMBER		3,891,494	14,945	3,592	9,720
	RATE		384.0	92.3	249.8
CONGENITAL ANOMALIES (740-759).....NUMBER			3,534	1,065	1,739
	RATE		90.8	27.4	44.7
PREMATURITY (765).....NUMBER			3,768	62	61
	RATE		96.8	1.6	1.6

SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER	24	185	2,858
	RATE	.6	4.7	73.4
RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER	1,031	232	108
	RATE	26.5	6.0	2.8
MATERNAL COMPLICATIONS (761).....	NUMBER	1,229	11	7
	RATE	31.6	.3	.2
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	900	25	15
	RATE	23.1	.7	.4
ACCIDENTS (E800-E949).....	NUMBER	37	56	700
	RATE	.9	1.4	18.0
INFECTIONS (771).....	NUMBER	336	369	47
	RATE	8.6	9.5	1.2
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	40	55	348
	RATE	1.0	1.4	8.9
HYPOXIA AND ASPHYXIA (768).....	NUMBER	313	73	28
	RATE	8.0	1.9	.7
ALL OTHER CAUSES.....	NUMBER	3,732	1,460	3,808
	RATE	95.9	37.5	97.9

doctab5
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
ALL RACES 1/, LESS THAN 2,500 GRAMS					
ALL CAUSES	NUMBER	288,181	12,476	2,196	3,294
	RATE		4,329.1	761.9	1,143.0
CONGENITAL ANOMALIES (740-759)	NUMBER		2,383	419	679
	RATE		826.8	145.5	235.7
PREMATURITY (765)	NUMBER		3,629	59	57
	RATE		1,259.2	20.4	19.7
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		2	19	560
	RATE		.7	6.7	194.5
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		1,003	226	90
	RATE		348.0	78.3	31.1
MATERNAL COMPLICATIONS (761)	NUMBER		1,177	11	6
	RATE		408.4	3.9	2.1
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		769	17	7

RATE 266.8 6.0 2.5

ACCIDENTS (E800-E949).....NUMBER 11 8 104

RATE 3.9 2.8 36.1

INFECTIONS (771).....NUMBER 262 317 35

RATE 90.9 109.9 12.0

PNEUMONIA AND INFLUENZA (480-487)....NUMBER 21 36 129

RATE 7.2 12.3 44.8

HYPOXIA AND ASPHYXIA (768).....NUMBER 159 26 7

RATE 55.2 9.2 2.5

ALL OTHER CAUSES.....NUMBER 3,060 1,057 1,620

RATE 1,061.9 366.9 562.2

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DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL

ALL RACES 1/,
2,500 GRAMS OR MORE

ALL CAUSES	NUMBER	3,601,121	2,176	1,381	6,401
	RATE		60.4	38.4	177.7
CONGENITAL ANOMALIES (740-759)	NUMBER		1,132	643	1,056
	RATE		31.4	17.8	29.3
PREMATURITY (765)	NUMBER		23	2	3
	RATE		.6	.1	.1
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		21	164	2,294
	RATE		.6	4.6	63.7
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		23	5	17
	RATE		.6	.1	.5
MATERNAL COMPLICATIONS (761)	NUMBER		18	-	1
	RATE		.5	-	.0
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		103	8	8
	RATE		2.9	.2	.2
ACCIDENTS (E800-E949)	NUMBER		22	48	594
	RATE		.6	1.3	16.5
INFECTIONS (771)	NUMBER		72	51	11
	RATE		2.0	1.4	.3
PNEUMONIA AND INFLUENZA (480-487)	NUMBER		17	19	218
	RATE		.5	.5	

6.0

HYPOXIA AND ASPHYXIA (768).....NUMBER 146 47
20
RATE 4.1 1.3
.6

ALL OTHER CAUSES.....NUMBER 598 394
2,179
RATE 16.6 10.9
60.5

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
ALL RACES 1/, NOT STATED BIRTH WEIGHT					
ALL CAUSES	NUMBER	2,192	294	15	25
	RATE	13,392.1	697.0	1,130.3	
CONGENITAL ANOMALIES (740-759)	NUMBER	20	3	4	
	RATE	918.4	138.7	192.3	
PREMATURITY (765)	NUMBER	116	1	1	
	RATE	5,285.1	46.1	46.3	

SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER	1	1	4
	RATE	45.6	46.1	186.6
RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER	5	1	1
	RATE	238.7	46.3	48.1
MATERNAL COMPLICATIONS (761).....	NUMBER	34	-	-
	RATE	1,552.4	-	-
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	28	-	-
	RATE	1,269.2	-	-
ACCIDENTS (E800-E949).....	NUMBER	3	-	2
	RATE	139.2	-	92.8
INFECTIONS (771).....	NUMBER	2	1	1
	RATE	95.6	48.1	49.8
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	2	-	1
	RATE	93.5	-	46.4
HYPOXIA AND ASPHYXIA (768).....	NUMBER	8	-	1
	RATE	371.1	-	46.2
ALL OTHER CAUSES.....	NUMBER	74	8	9
	RATE	3,383.2	371.9	421.6

doctab5

MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
WHITE, ALL BIRTH WEIGHTS					
ALL CAUSES	NUMBER	3,093,057	9,795	2,446	6,394
	RATE		316.7	79.1	206.7
CONGENITAL ANOMALIES (740-759)	NUMBER		2,806	835	1,253
	RATE		90.7	27.0	40.5
PREMATURITY (765)	NUMBER		2,065	34	34
	RATE		66.8	1.1	1.1
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		16	123	1,877
	RATE		.5	4.0	60.7
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		652	133	62
	RATE		21.1	4.3	2.0
MATERNAL COMPLICATIONS (761)	NUMBER		770	9	3
	RATE		24.9	.3	.1

COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	602	19	9
	RATE	19.5	.6	.3
ACCIDENTS (E800-E949).....	NUMBER	30	33	487
	RATE	1.0	1.1	15.8
INFECTIONS (771).....	NUMBER	223	221	24
	RATE	7.2	7.2	.8
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	29	34	205
	RATE	.9	1.1	6.6
HYPOXIA AND ASPHYXIA (768).....	NUMBER	230	51	19
	RATE	7.4	1.6	.6
ALL OTHER CAUSES.....	NUMBER	2,371	954	2,419
	RATE	76.7	30.8	78.2

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL

__

WHITE, LESS THAN 2,500 GRAMS					
ALL CAUSES	NUMBER	196,443	7,892	1,382	1,950
	RATE		4,017.4	703.3	992.6
CONGENITAL ANOMALIES (740-759)	NUMBER		1,854	302	479
	RATE		943.9	153.9	243.7
PREMATURITY (765)	NUMBER		1,993	33	31
	RATE		1,014.6	16.6	16.0
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		2	13	321
	RATE		1.0	6.8	163.4
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		632	127	52
	RATE		321.6	64.7	26.4
MATERNAL COMPLICATIONS (761)	NUMBER		734	9	2
	RATE		373.6	4.7	1.0
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		496	13	3
	RATE		252.4	6.7	1.6
ACCIDENTS (E800-E949)	NUMBER		10	4	64
	RATE		5.2	2.1	32.7
INFECTIONS (771)	NUMBER		167	188	19
	RATE		85.1	95.6	9.8
PNEUMONIA AND INFLUENZA (480-487)	NUMBER		15	22	

64
RATE 7.4 11.4
32.5

HYPOXIA AND ASPHYXIA (768).....NUMBER 102 16
4
RATE 51.8 8.3
2.1

ALL OTHER CAUSES.....NUMBER 1,887 653
910
RATE 960.8 332.5
463.3

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
WHITE, 2,500 GRAMS OR MORE					
ALL CAUSES.....	NUMBER	2,895,116	1,739	1,055	4,430
	RATE		60.1	36.4	153.0
CONGENITAL ANOMALIES (740-759).....	NUMBER		936	530	772
	RATE		32.3	18.3	26.7
PREMATURITY (765).....	NUMBER		16	-	2

	RATE	.6	-	.1
SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER	13	108	1,554
	RATE	.5	3.7	53.7
RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER	18	5	9
	RATE	.6	.2	.3
MATERNAL COMPLICATIONS (761).....	NUMBER	13	-	1
	RATE	.5	-	.0
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	87	6	6
	RATE	3.0	.2	.2
ACCIDENTS (E800-E949).....	NUMBER	16	29	422
	RATE	.6	1.0	14.6
INFECTIONS (771).....	NUMBER	56	33	5
	RATE	1.9	1.1	.2
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	14	12	141
	RATE	.5	.4	4.9
HYPOXIA AND ASPHYXIA (768).....	NUMBER	125	35	15
	RATE	4.3	1.2	.5
ALL OTHER CAUSES.....	NUMBER	444	297	1,502
	RATE	15.3	10.3	51.9

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
WHITE, NOT STATED BIRTH WEIGHT					
ALL CAUSES	NUMBER	1,498	164	10	14
	RATE		10,921.9	678.4	965.0
CONGENITAL ANOMALIES (740-759)	NUMBER		16	3	2
	RATE		1,061.5	202.9	140.7
PREMATURITY (765)	NUMBER		56	1	1
	RATE		3,708.0	67.4	67.8
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		1	1	2
	RATE		66.8	67.4	136.0
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		2	1	1
	RATE		143.7	67.7	70.4
MATERNAL COMPLICATIONS (761)	NUMBER		23	-	-
	RATE		1,521.0	-	

COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	20	-	-
	RATE	1,313.2	-	-
ACCIDENTS (E800-E949).....	NUMBER	3	-	1
	RATE	203.6	-	68.1
INFECTIONS (771).....	NUMBER	-	1	-
	RATE	-	70.4	-
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	-	-	-
	RATE	-	-	-
HYPOXIA AND ASPHYXIA (768).....	NUMBER	4	-	-
	RATE	273.7	-	-
ALL OTHER CAUSES.....	NUMBER	39	3	7
	RATE	2,630.4	202.6	482.1

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-

NATAL

BLACK, ALL BIRTH WEIGHTS					
ALL CAUSES	NUMBER	594,781	4,550	1,013	2,834
	RATE		764.9	170.4	476.5
CONGENITAL ANOMALIES (740-759)	NUMBER		561	193	382
	RATE		94.4	32.4	64.2
PREMATURITY (765)	NUMBER		1,575	26	25
	RATE		264.8	4.4	4.3
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		7	56	840
	RATE		1.2	9.4	141.2
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		343	88	39
	RATE		57.7	14.8	6.5
MATERNAL COMPLICATIONS (761)	NUMBER		427	1	3
	RATE		71.7	.2	.5
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		255	6	6
	RATE		42.9	1.0	1.0
ACCIDENTS (E800-E949)	NUMBER		5	20	187
	RATE		.9	3.4	31.4
INFECTIONS (771)	NUMBER		99	131	18
	RATE		16.6	22.0	3.1

PNEUMONIA AND INFLUENZA (480-487)....NUMBER 11 18
123
RATE 1.9 3.1
20.6

HYPOXIA AND ASPHYXIA (768).....NUMBER 68 18
6
RATE 11.5 3.1
1.0

ALL OTHER CAUSES.....NUMBER 1,198 456
1,206
RATE 201.4 76.6
202.7

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
BLACK, LESS THAN 2,500 GRAMS					
ALL CAUSES.....	NUMBER	77,556	4,095	731	1,190
	RATE		5,280.2	942.7	1,534.6
CONGENITAL ANOMALIES (740-759).....	NUMBER		417	102	159
	RATE		537.2	130.9	204.4

PREMATURITY (765).....	NUMBER	1,513	24	24
	RATE	1,950.8	31.3	31.3
SUDDEN INFANT DEATH SYNDROME (798.0).	NUMBER	-	6	216
	RATE	-	7.8	278.4
RESPIRATORY DISTRESS SYNDROME (769)..	NUMBER	337	88	33
	RATE	434.9	113.8	42.0
MATERNAL COMPLICATIONS (761).....	NUMBER	412	1	3
	RATE	531.6	1.3	4.0
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	236	4	4
	RATE	303.7	5.2	5.2
ACCIDENTS (E800-E949).....	NUMBER	1	4	34
	RATE	1.3	5.2	44.4
INFECTIONS (771).....	NUMBER	87	116	13
	RATE	111.9	149.0	17.0
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	6	12	59
	RATE	8.0	15.7	75.9
HYPOXIA AND ASPHYXIA (768).....	NUMBER	48	8	1
	RATE	62.0	10.4	1.3
ALL OTHER CAUSES.....	NUMBER	1,038	366	644
	RATE	1,338.8	472.0	830.6

□

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA
(INFANT DEATHS WEIGHTED)
(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF MOTHER		LIVE BIRTHS	EARLY NEO-NATAL	LATE NEO-NATAL	POST NEO-NATAL
BLACK, 2,500 GRAMS OR MORE					
ALL CAUSES	NUMBER	516,749	341	277	1,639
	RATE		66.0	53.6	317.2
CONGENITAL ANOMALIES (740-759)	NUMBER		144	91	223
	RATE		27.8	17.6	43.2
PREMATURITY (765)	NUMBER		7	2	1
	RATE		1.3	.4	.2
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		7	50	624
	RATE		1.4	9.6	120.8
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		4	-	6
	RATE		.8	-	1.2
MATERNAL COMPLICATIONS (761)	NUMBER		4	-	

	RATE	.8	-	-
COMPLICATIONS OF PLACENTA,ETC. (762).	NUMBER	14	2	2
	RATE	2.7	.4	.4
ACCIDENTS (E800-E949).....	NUMBER	4	16	151
	RATE	.8	3.1	29.3
INFECTIONS (771).....	NUMBER	10	15	5
	RATE	2.0	2.9	1.0
PNEUMONIA AND INFLUENZA (480-487)....	NUMBER	3	6	63
	RATE	.6	1.2	12.2
HYPOXIA AND ASPHYXIA (768).....	NUMBER	17	10	4
	RATE	3.3	2.0	.8
ALL OTHER CAUSES.....	NUMBER	127	84	559
	RATE	24.6	16.3	108.2

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTH WEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTH WEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1996 BIRTH COHORT DATA

(INFANT DEATHS WEIGHTED)

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)

(RATES ARE PER 100,000 LIVE BIRTHS)

CAUSE OF DEATH, BIRTH WEIGHT, AND RACE OF		LIVE	EARLY NEO-	LATE NEO-	POST

MOTHER		BIRTHS	NEO-NATAL	NEO-NATAL
BLACK, NOT STATED BIRTH WEIGHT				
ALL CAUSES	NUMBER	476	113	55
	RATE		23,834.5	1,074.8
CONGENITAL ANOMALIES (740-759)	NUMBER		1	-
	RATE		214.4	-
PREMATURITY (765)	NUMBER		55	-
	RATE		11,618.5	-
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER		-	-
	RATE		-	-
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER		2	-
	RATE		436.8	-
MATERNAL COMPLICATIONS (761)	NUMBER		10	-
	RATE		2,152.0	-
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER		5	-
	RATE		1,081.8	-
ACCIDENTS (E800-E949)	NUMBER		-	-
	RATE		-	-
INFECTIONS (771)	NUMBER		2	-
	RATE		440.1	-

PNEUMONIA AND INFLUENZA (480-487)....NUMBER	2	-	1	
RATE	430.8	-	213.7	
HYPOXIA AND ASPHYXIA (768).....NUMBER	3	-	1	
RATE	637.5	-	212.7	
ALL OTHER CAUSES.....NUMBER	32	5	2	
RATE	6,822.6	1,074.8	424.3	

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

doctab6

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1996 BIRTH COHORT DATA

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(DATA IN THIS TABLE IS FOR INFANT DEATHS IN 1995 OR 1996 THAT ARE NOT INCLUDED IN THE LINKED FILE BECAUSE THEY WERE NOT LINKED WITH THEIR CORRESPONDING BIRTH CERTIFICATES. SEE METHODOLOGY SECTION. RESIDENCE IS OF INFANT DECEDENT; RACE IS FROM DEATH CERTIFICATE.)

AREA AND RACE OF CHILD 1/	INFANT	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POSTNEONATAL
UNITED STATES 2/.....	634	467	410	57	167
WHITE.....	409	293	254	39	116
BLACK.....	199	154	140	14	45
ALABAMA.....	1	1	1	-	-
WHITE.....	1	1	1	-	-
BLACK.....	-	-	-	-	-
ALASKA.....	1	1	1	-	-
WHITE.....	1	1	1	-	-
BLACK.....	-	-	-	-	-
ARIZONA.....	15	7	7	-	8
WHITE.....	13	5	5	-	8

BLACK.....	1	1	1	-
-				
ARKANSAS.....	2	1	-	1
1				
WHITE.....	1	-	-	-
1				
BLACK.....	1	1	-	1
-				
CALIFORNIA.....	168	135	125	10
33				
WHITE.....	119	99	91	8
20				
BLACK.....	36	25	25	-
11				
COLORADO.....	-	-	-	-
-				
WHITE.....	-	-	-	-
-				
BLACK.....	-	-	-	-
-				
CONNECTICUT.....	-	-	-	-
-				
WHITE.....	-	-	-	-
-				
BLACK.....	-	-	-	-
-				
DELAWARE.....	-	-	-	-
-				
WHITE.....	-	-	-	-
-				
BLACK.....	-	-	-	-
-				

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1996 BIRTH COHORT DATA

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(DATA IN THIS TABLE IS FOR INFANT DEATHS IN 1995 OR 1996 THAT ARE NOT INCLUDED
IN THE LINKED FILE BECAUSE THEY WERE NOT LINKED WITH THEIR CORRESPONDING

BIRTH CERTIFICATES. SEE METHODOLOGY SECTION. RESIDENCE IS OF INFANT DECEDENT; RACE IS FROM DEATH CERTIFICATE.)

AREA AND RACE OF CHILD 1/	INFANT	TOTAL NEO-NATAL	EARLY NEO-NATAL	LATE NEO-NATAL	POST-NEO-NATAL
DISTRICT OF COLUMBIA	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
FLORIDA	6	5	5	-	1
WHITE	4	3	3	-	1
BLACK	2	2	2	-	-
GEORGIA	1	1	1	-	-
WHITE	-	-	-	-	-
BLACK	1	1	1	-	-
HAWAII	6	2	-	2	4
WHITE	3	1	-	1	2
BLACK	1	-	-	-	1
IDAHO	4	-	-	-	4
WHITE	4	-	-	-	4
BLACK	-	-	-	-	-
ILLINOIS	34	25	23	2	9

WHITE.....	14	10	9	1
4				
BLACK.....	18	14	14	-
4				
INDIANA.....	15	8	4	4
7				
WHITE.....	8	5	2	3
3				
BLACK.....	7	3	2	1
4				
IOWA.....	-	-	-	-
-				
WHITE.....	-	-	-	-
-				
BLACK.....	-	-	-	-
-				
KANSAS.....	-	-	-	-
-				
WHITE.....	-	-	-	-
-				
BLACK.....	-	-	-	-
-				

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1996 BIRTH COHORT DATA

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(DATA IN THIS TABLE IS FOR INFANT DEATHS IN 1995 OR 1996 THAT ARE NOT INCLUDED IN THE LINKED FILE BECAUSE THEY WERE NOT LINKED WITH THEIR CORRESPONDING BIRTH CERTIFICATES. SEE METHODOLOGY SECTION. RESIDENCE IS OF INFANT DECEDENT; RACE IS FROM DEATH CERTIFICATE.)

AREA AND RACE OF CHILD 1/	INFANT	TOTAL NEO-NATAL	EARLY NEO-NATAL	LATE NEO-NATAL	POST-NEO-NATAL

KENTUCKY	12	9	8	1
WHITE	11	9	8	1
BLACK	1	-	-	-
LOUISIANA	18	16	12	4
WHITE	6	6	6	-
BLACK	12	10	6	4
MAINE	-	-	-	-
WHITE	-	-	-	-
BLACK	-	-	-	-
MARYLAND	5	4	2	2
WHITE	2	2	-	2
BLACK	3	2	2	-
MASSACHUSETTS	12	11	8	3
WHITE	10	10	7	3
BLACK	1	1	1	-
MICHIGAN	17	13	11	2
WHITE	12	9	7	2
BLACK	4	3	3	-
MINNESOTA	2	-	-	-
WHITE	1	-	-	-
BLACK	-	-	-	-

MISSISSIPPI	-	-	-	-
WHITE	-	-	-	-
BLACK	-	-	-	-
MISSOURI	12	10	10	-
WHITE	4	2	2	-
BLACK	7	7	7	-

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1996 BIRTH COHORT DATA

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(DATA IN THIS TABLE IS FOR INFANT DEATHS IN 1995 OR 1996 THAT ARE NOT INCLUDED IN THE LINKED FILE BECAUSE THEY WERE NOT LINKED WITH THEIR CORRESPONDING BIRTH CERTIFICATES. SEE METHODOLOGY SECTION. RESIDENCE IS OF INFANT DECEDENT; RACE IS FROM DEATH CERTIFICATE.)

AREA AND RACE OF CHILD 1/	INFANT	TOTAL NEO-NATAL	EARLY NEO-NATAL	LATE NEO-NATAL	POST-NEO-NATAL
MONTANA	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
NEBRASKA	1	-	-	-	1
WHITE	1	-	-	-	1

BLACK	-	-	-	-
NEVADA	3	1	1	-
WHITE	3	1	1	-
BLACK	-	-	-	-
NEW HAMPSHIRE	4	1	1	-
WHITE	4	1	1	-
BLACK	-	-	-	-
NEW JERSEY	15	13	12	1
WHITE	8	7	6	1
BLACK	7	6	6	-
NEW MEXICO	6	4	4	-
WHITE	6	4	4	-
BLACK	-	-	-	-
NEW YORK	17	10	6	4
WHITE	12	6	5	1
BLACK	5	4	1	3
NEW YORK CITY	20	9	8	1
WHITE	11	5	5	-
BLACK	9	4	3	1
NORTH CAROLINA	6	2	2	-
WHITE	3	-	-	-
BLACK	3	2	2	-

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1996 BIRTH COHORT DATA

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(DATA IN THIS TABLE IS FOR INFANT DEATHS IN 1995 OR 1996 THAT ARE NOT INCLUDED IN THE LINKED FILE BECAUSE THEY WERE NOT LINKED WITH THEIR CORRESPONDING BIRTH CERTIFICATES. SEE METHODOLOGY SECTION. RESIDENCE IS OF INFANT DECEDENT; RACE IS FROM DEATH CERTIFICATE.)

AREA AND RACE OF CHILD 1/	INFANT	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POSTNEONATAL
NORTH DAKOTA	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
OHIO	83	63	59	4	20
WHITE	47	34	32	2	13
BLACK	36	29	27	2	7
OKLAHOMA	30	23	21	2	7
WHITE	25	19	17	2	6
BLACK	5	4	4	-	1
OREGON	2	1	-	1	1

WHITE.....	2	1	-	1
1				
BLACK.....	-	-	-	-
-				
PENNSYLVANIA.....	35	31	28	3
4				
WHITE.....	17	14	13	1
3				
BLACK.....	15	14	12	2
1				
RHODE ISLAND.....	-	-	-	-
-				
WHITE.....	-	-	-	-
-				
BLACK.....	-	-	-	-
-				
SOUTH CAROLINA.....	4	2	1	1
2				
WHITE.....	3	2	1	1
1				
BLACK.....	1	-	-	-
1				
SOUTH DAKOTA.....	-	-	-	-
-				
WHITE.....	-	-	-	-
-				
BLACK.....	-	-	-	-
-				
TENNESSEE.....	1	1	-	1
-				
WHITE.....	1	1	-	1
-				
BLACK.....	-	-	-	-
-				

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1996 BIRTH COHORT DATA

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(DATA IN THIS TABLE IS FOR INFANT DEATHS IN 1995 OR 1996 THAT ARE NOT

INCLUDED
IN THE LINKED FILE BECAUSE THEY WERE NOT LINKED WITH THEIR CORRESPONDING BIRTH CERTIFICATES. SEE METHODOLOGY SECTION. RESIDENCE IS OF INFANT DECEDENT; RACE IS FROM DEATH CERTIFICATE.)

AREA AND RACE OF CHILD 1/	INFANT	TOTAL NEO-NATAL	EARLY NEO-NATAL	LATE NEO-NATAL	POST-NEO-NATAL
TEXAS	52	44	41	3	8
WHITE	35	27	24	3	8
BLACK	16	16	16	-	-
UTAH	3	1	-	1	2
WHITE	3	1	-	1	2
BLACK	-	-	-	-	-
VERMONT	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
VIRGINIA	15	11	8	3	4
WHITE	8	6	3	3	2
BLACK	7	5	5	-	2
WASHINGTON	1	-	-	-	1
WHITE	1	-	-	-	1
BLACK	-	-	-	-	-

WEST VIRGINIA.....	3	-	-	-
3				
WHITE.....	3	-	-	-
3				
BLACK.....	-	-	-	-
-				
WISCONSIN.....	2	1	-	1
1				
WHITE.....	2	1	-	1
1				
BLACK.....	-	-	-	-
-				
WYOMING.....	-	-	-	-
-				
WHITE.....	-	-	-	-
-				
BLACK.....	-	-	-	-
-				
FOREIGN RESIDENTS.....	5	4	3	1
1				
WHITE.....	3	3	2	1
-				
BLACK.....	1	-	-	-
1				

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE: UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1996 BIRTH COHORT DATA

(INFANT DEATHS ARE UNDER 1 YEAR. NEONATAL DEATHS ARE UNDER 28 DAYS; EARLY NEONATAL, 0-6 DAYS; LATE NEONATAL, 7-27 DAYS; AND POSTNEONATAL, 28 DAYS THROUGH 11 MONTHS)
(DATA IN THIS TABLE IS FOR INFANT DEATHS IN 1995 OR 1996 THAT ARE NOT INCLUDED IN THE LINKED FILE BECAUSE THEY WERE NOT LINKED WITH THEIR CORRESPONDING BIRTH CERTIFICATES. SEE METHODOLOGY SECTION. RESIDENCE IS OF INFANT DECEDENT; RACE IS FROM DEATH CERTIFICATE.)

AREA AND RACE OF CHILD 1/		TOTAL NEO-	EARLY NEO-	LATE NEO-	POST-NEO-

doctab6

	INFANT	NATAL	NATAL	NATAL	NATAL
PUERTO RICO 3/.....	2	1	-	1	1
WHITE.....	2	1	-	1	1
BLACK.....	-	-	-	-	-
VIRGIN ISLANDS 3/.....	4	2	2	-	2
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
GUAM 3/.....	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-

1/ TOTALS FOR GEOGRAPHIC AREAS INCLUDE RACES OTHER THAN WHITE AND BLACK

2/ EXCLUDES DATA FOR FOREIGN RESIDENTS, PUERTO RICO, VIRGIN ISLANDS, AND GUAM

3/ DATA FROM THE PUERTO RICO, VIRGIN ISLANDS, AND GUAM FILE

geo

Linked Birth/Infant Death Data Set

Geographic Code Outline

The following pages show the geographic codes used by the Division of Vital Statistics in the processing of vital event data occurring in the United States. For the perinatal data set, counties and cities with a population of 250,000 or more are identified.

Federal Information Processing Standards (FIPS) State, County, and City/Place Codes: For the 1995 linked file, the county and city/place codes and the State code immediately preceding them are FIPS codes. These codes were effective with the 1995 data year and are based on the results of the 1990 Census. County and county equivalents (independent and coextensive cities) are numbered alphabetically within each State. When an event occurs to a nonresident of the United States, residence data are coded only to the "State" level, or to the remainder of the world. For an explanation of FIPS codes, reference should be made to various National Bureau of Standards (NBS) publications.

city

Listing of Cities/Places Identified in the Linked Data Set
Vital Statistics Geographic Code Outline Effective With 1995 Data
FIPS Codes

State	City/Place	State and City/Place Name
01		Alabama
	07000	Birmingham
02		Alaska
04		Arizona
	46000	Mesa
	55000	Phoenix
	77000	Tucson
05		Arkansas
06		California
	02000	Anaheim
	27000	Fresno
	43000	Long Beach
	44000	Los Angeles
	53000	Oakland
	64000	Sacramento
	66000	San Diego
	67000	San Francisco
	68000	San Jose
	69000	Santa Ana
08		Colorado
	16000	Colorado Springs
	20000	Denver
09		Connecticut
10		Delaware
11		District of Columbia
	50000	Washington
12		Florida
	35000	Jacksonville
	45000	Miami
	71000	Tampa
13		Georgia
	04000	Atlanta
15		Hawaii

		city
	17000	Honolulu
16		Idaho

17		Illinois
	14000	Chicago
18		Indiana
	36000	Indianapolis
19		Iowa
20		Kansas
	79000	Wichita
21		Kentucky
	48000	Louisville
22		Louisiana
	55000	New Orleans
23		Maine
24		Maryland
	04000	Baltimore
25		Massachusetts
	07000	Boston
26		Michigan
	22000	Detroit
27		Minnesota
	43000	Minneapolis
	58000	St. Paul
28		Mississippi
29		Missouri
	38000	Kansas City
	65000	St. Louis
30		Montana
31		Nebraska
	37000	Omaha
32		Nevada

		city
	40000	Las Vegas
33		New Hampshire
34		New Jersey
	51000	Newark
35		New Mexico
	02000	Albuquerque

36		New York
	11000	Buffalo
	51000	Bronx borough, Bronx county
	51000	Brooklyn borough, Kings county
	51000	Manhattan borough, New York county
	51000	Queens borough, Queens county
	51000	Staten Island borough, Richmond county
37		North Carolina
	12000	Charlotte
38		North Dakota
39		Ohio
	15000	Cincinnati
	16000	Cleveland
	18000	Columbus
	77000	Toledo
40		Oklahoma
	55000	Oklahoma City
	75000	Tulsa
41		Oregon
	59000	Portland
42		Pennsylvania
	60000	Philadelphia
	61000	Pittsburgh
44		Rhode Island
45		South Carolina
46		South Dakota
47		Tennessee
	48000	Memphis
	52010	Nashville-Davidson

48		Texas
	04000	Arlington
	05000	Austin
	17000	Corpus Christi
	19000	Dallas
	24000	El Paso
	27000	Fort Worth
	35000	Houston
	65000	San Antonio
49		Utah
50		Vermont

51		Virginia
	57000	Norfolk
	82000	Virginia Beach
53		Washington
	63000	Seattle
54		West Virginia
55		Wisconsin
	53000	Milwaukee
56		Wyoming
72		Puerto Rico
78		Virgin Islands
66		Guam
00		Canada
00		Cuba
00		Mexico
00		Remainder of World

city.doc - Page 4

ucr61
Chapter 5
Ninth Revision 61 Causes of Death Adapted for use by DVS
ST: 1 = Subtotal Limited: Sex: 1 = Males; 2 = Females
Length = of Cause Title Age: 1 = 5 & Over; 2 = 10-54;
3 = 28 Days & Over

***** Cause Subtotals are not Identified in this File *****

61 Recode	ST	Limited Sex	Limited Age	Length of Cause Title	Cause Title And ICD-9 Codes Included
010				039	Certain intestinal infections (008-009)
020				020	Whooping cough (033)
030				029	Meningococcal infection (036)
040			3	016	Septicemia (038)
050				024	Viral diseases (045-079)
060				025	Congenital syphilis (090)
070				110	Remainder of infectious and parasitic diseases (001-007,010-032,034-035,037,039-041, *042-*044,080-088,091-139)
080				089	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)
090				108	Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (210-239)
100				030	Diseases of thymus gland (254)
110				023	Cystic fibrosis (277.0)
120				052	Diseases of blood and blood-forming organs (280-289)
130				020	Meningitis (320-322)
140				059	Other diseases of nervous system and sense organs (323-389)
150				044	Acute upper respiratory infections (460-465)
160				042	Bronchitis and bronchiolitis (466,490-491)
170	1			033	Pneumonia and influenza (480-487)
180				021	Pneumonia (480-486)
190				017	Influenza (487)
200				061	Remainder of diseases of respiratory system (470-478, 492-519)
210				093	Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-553,560)
220				075	Gastritis, duodenitis, and noninfective enteritis and colitis (535,555-558)
230				067	Remainder of diseases of digestive system (520-534,536-543,562-579)
240	1			030	Congenital anomalies (740-759)

250		042	Anencephalus and similar anomalies (740)

260		020	Spina bifida (741)
270		034	Congenital hydrocephalus (742.3)
280		092	Other congenital anomalies of central nervous system and eye (742.0-742.2,742.4-742.9,743)
290		041	Congenital anomalies of heart (745-746)
300		056	Other congenital anomalies of circulatory system (747)
310		050	Congenital anomalies of respiratory system (748)
320		052	Congenital anomalies of digestive system (749-751)
330		056	Congenital anomalies of genitourinary system (752-753)
340		058	Congenital anomalies of musculoskeletal system (754-756)
350		025	Down's syndrome (758.0)
360		043	Other chromosomal anomalies (758.1-758.9)
370		062	All other and unspecified congenital anomalies (744,757,759)
380	1	064	Certain conditions originating in the perinatal period (760-779)
390		091	Newborn affected by maternal conditions which may be unrelated to present pregnancy (760)
400		063	Newborn affected by maternal complications of pregnancy (761)
410		074	Newborn affected by complications of placenta, cord, and membranes (762)
420		069	Newborn affected by other complications of labor and delivery (763)
430		048	Slow fetal growth and fetal malnutrition (764)
440		077	Disorders relating to short gestation and unspecified low birthweight (765)
450		065	Disorders relating to long gestation and high birthweight (766)
460		020	Birth trauma (767)
470	1	047	Intrauterine hypoxia and birth asphyxia (768)
480		051	Fetal distress in liveborn infant (768.2-768.4)
490		032	Birth asphyxia (768.5-768.9)

500		037	Respiratory distress syndrome (769)
510		047	Other respiratory conditions of newborn (770)
520		051	Infections specific to the perinatal period (771)
530		027	Neonatal hemorrhage (772)
540		094	Hemolytic disease of newborn, due to isoimmunization, and other perinatal jaundice (773-774)
550		088	Syndrome of "infant of a diabetic mother" and neonatal diabetes mellitus (775.0-775.1)
560		040	Hemorrhagic disease of newborn (776.0)
570		098	All other and ill-defined conditions originating in the perinatal period (775.2-775.9,776.1-779)

580	1	053	Symptoms, signs, and ill-defined conditions (780-799)
590		038	Sudden infant death syndrome (798.0)
600		075	Symptoms, signs, and all other ill-defined conditions (780-797,798.1-799)
610	1	041	Accidents and adverse effects (E800-E949)
620		118	Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation (E911-E912)
630		042	Accidental mechanical suffocation (E913)
640		067	Other accidental causes and adverse effects (E800-E910,E914-E949)
650	1	020	Homicide (E960-E969)
660		047	Child battering and other maltreatment (E967)
670		038	Other homicide (E960-E966,E968-E969)
680		027	All other causes (Residual)