Linked Birth/Infant Death Data Set — 1997 Birth Cohort

DSN:

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CC36.NATAL.COHORT97.LINK.PS
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CC36.NATAL.COHORT97.UNLINK.PS

Introduction

This documentation is for the 1997 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 1997 period linked file consists of all infant deaths occurring in 1997 linked to their corresponding birth certificates, whether the birth occurred in 1997 or 1996. The denominator file for this data set is the 1997 natality file, that is, all births occurring in 1997. Beginning in 1995, 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 1997 birth cohort linked file consists of deaths to infants born in 1997 linked to their corresponding birth certificates, whether the death occurred in 1997 or 1998. The denominator file is the 1997 natality file, that is, all births occurring in 1997.

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 1997 birth cohort and 1997 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 1997 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 1997 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 1997 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 1997 birth cohort linked file, 97.9% of infant death records were linked to their corresponding birth certificates. Overall, 2.1% 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 576 (by residence) or 577 (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) 458-4356.

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 3.27% to 1.20% in the numerator file, and from 0.10% to 0.04% 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 1997 birth cohort linked file 577, or 2.1% 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 1997 birth cohort linked file includes 27,362 linked infant death records and 577 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 27,939. While the overall percent linked for infant deaths in the 1997 birth cohort linked file is 97.9%, 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 (94.2%), New Mexico (92.9%), and Oklahoma (91.0%). 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 (98.6%) than neonatal (97.6%) deaths were linked. The percent of records linked was slightly higher for white (98.0%) than for black (97.8%) 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, 1997 birth cohort

United States	97.9%	Nebraska	100.0%
Alabama	99.8%	Nevada	95.2%
Alaska	98.5%	New Hampshire	98.5%
Arizona	97.8%	New Jersey	97.4%
Arkansas	97.8%	New Mexico	92.9%
California	94.2%	Upstate New York	99.0%
Colorado	100.0%	New York City	98.2%
Connecticut	99.4%	North Carolina	99.5%
Delaware	100.0%	North Dakota	100.0%
District of Columbia	99.1%	Ohio	95.5%
Florida	99.3%	Oklahoma	91.0%
Georgia	100.0%	Oregon	99.2%
Hawaii	97.4%	Pennsylvania	97.6%
Idaho	98.4%	Rhode Island	98.9%
Illinois	98.6%	South Carolina	100.0%
Indiana	97.9%	South Dakota	98.6%
Iowa	99.6%	Tennessee	99.7%
Kansas	100.0%	Texas	98.7%
Kentucky	97.3%	Utah	99.2%
Louisiana	97.6%	Vermont	100.0%
Maine	100.0%	Virginia	98.2%
Maryland	97.5%	Washington	99.8%
Massachusetts	98.1%	West Virginia	99.0%
Michigan	98.0%	Wisconsin	99.8%
Minnesota	99.7%	Wyoming	100.0%
Mississippi	99.3%	Puerto Rico	99.7%
Missouri	98.0%	Virgin Islands	100.0%
Montana	98.8%	Guam	96.7%

Table 2. Percent of resident infant deaths linked by race and age at death: United States, 1997 birth cohort (Infant deaths are under 1 year; neonatal, under 28 days, and postneonatal, 28 days-under 1 year)

	All races	White	Black
Infant	97.9%	98.0%	97.8%
Neonatal	97.6%	97.7%	97.5%
Postneonatal	98.6%	98.7%	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 - 1997 Birth Cohort Data
List of Data Elements and Locations

Data Items	Denominator-Plus File	Numerator File Birth	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 - 1997 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** 1997 ... Born in 1997
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. 10-54 ... 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 - 54 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** 1997 ... Death occurred in 1997 1998 ... Death occurred in 1998
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**

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 -- 1997 BIRTH COHORT DATA

(RESIDENCE AT BIRTH IS OF THE MOTHER)

AREA	LIVE BIRTHS		INFANT DEATHS			
			UNWEIGHTED		WEIGHTED 1/	
	OCCURRENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE	RESIDENCE
UNITED STATES 2/.....	3,884,329	3,880,894	27,362	27,342	27,939	27,919
ALABAMA.....	60,091	60,914	574	587	575	588
ALASKA.....	9,841	9,947	66	67	67	68
ARIZONA.....	75,764	75,699	544	545	552	553
ARKANSAS.....	35,321	36,478	285	307	290	313
CALIFORNIA.....	525,242	524,840	2,899	2,898	3,077	3075
COLORADO.....	56,868	56,533	418	399	418	399
CONNECTICUT.....	42,944	43,109	319	311	320	312
DELAWARE.....	10,729	10,253	80	78	81	79
DISTRICT OF COLUMBIA.....	14,996	7,927	177	109	184	113
FLORIDA.....	192,598	192,383	1,412	1,393	1,421	1,402
GEORGIA.....	119,136	118,221	1,013	1,010	1,013	1,010
HAWAII.....	17,414	17,393	112	111	115	114
IDAHO.....	18,256	18,582	104	123	106	125
ILLINOIS.....	177,732	180,803	1,431	1,473	1,445	1,488
INDIANA.....	83,421	83,436	629	642	647	660
IOWA.....	36,814	36,659	211	233	212	234
KANSAS.....	36,062	37,289	271	286	271	287
KENTUCKY.....	51,617	53,203	347	364	354	372
LOUISIANA.....	66,187	66,025	608	605	626	623
MAINE.....	13,474	13,669	73	73	73	73
MARYLAND.....	65,990	70,215	533	593	543	606
MASSACHUSETTS.....	81,270	80,364	404	405	412	413
MICHIGAN.....	132,501	133,714	1,079	1,093	1,103	1,117
MINNESOTA.....	64,461	64,499	380	377	381	378
MISSISSIPPI.....	40,612	41,533	413	430	415	432
MISSOURI.....	76,653	74,037	593	553	607	566

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 -- 1997 BIRTH COHORT DATA

(RESIDENCE AT BIRTH IS OF THE MOTHER)

AREA	LIVE BIRTHS		INFANT DEATHS			
			UNWEIGHTED		WEIGHTED 1/	
	OCCURRENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE	RESIDENCE
MONTANA	10,731	10,849	77	80	78	81
NEBRASKA	23,631	23,319	197	175	198	176
NEVADA	26,507	26,911	179	179	190	190
NEW HAMPSHIRE	13,842	14,313	56	65	57	66
NEW JERSEY	110,443	113,279	671	700	689	718
NEW MEXICO	26,387	26,871	153	158	166	170
NEW YORK	258,538	257,238	1,676	1,673	1,699	1,696
UPSTATE	135,249	138,335	860	876	875	891
CITY	123,289	118,903	816	797	824	805
NORTH CAROLINA	108,041	107,015	979	976	984	981
NORTH DAKOTA	9,556	8,353	61	52	61	52
OHIO	152,564	152,033	1,149	1,135	1,199	1,184
OKLAHOMA	47,206	48,269	326	334	359	365
OREGON	45,117	43,809	258	243	259	244
PENNSYLVANIA	144,937	144,224	1,094	1,066	1,123	1,094
RHODE ISLAND	13,315	12,455	101	87	104	90
SOUTH CAROLINA	50,030	52,214	485	503	486	504
SOUTH DAKOTA	10,270	10,173	74	71	76	73
TENNESSEE	79,415	74,478	697	622	700	625
TEXAS	337,701	333,974	2,087	2,082	2,114	2,110
UTAH	43,870	43,059	273	255	274	256
VERMONT	6,332	6,607	35	33	35	33
VIRGINIA	89,668	91,862	688	694	700	706
WASHINGTON	77,143	78,190	422	433	423	434
WEST VIRGINIA	21,647	20,730	202	199	207	204
WISCONSIN	65,461	66,557	426	424	429	427
WYOMING	5,983	6,387	21	38	21	38
FOREIGN RESIDENTS	...	3,435	...	20	...	20

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 -- 1997 BIRTH COHORT DATA

(RESIDENCE AT BIRTH IS OF THE MOTHER)

AREA	LIVE BIRTHS		INFANT DEATHS			
			UNWEIGHTED		WEIGHTED 1/	
	OCCURRENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE	RESIDENCE
PUERTO RICO 3/.....	64,214	64,109	701	699	...	...
VIRGIN ISLANDS 3/.....	2,127	2,017	21	20	...	...
GUAM 3/.....	4,314	4,309	29	29	...	...

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 2

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY RACE OF MOTHER, SEX AND BIRTH WEIGHT OF CHILD:
UNITED STATES, 1997 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	1250-1499 GRAMS	1500-1999 GRAMS	2000-2499 GRAMS	2500 GRAMS OR MORE	NOT STATED
ALL RACES 1/										
BOTH SEXES										
LIVE BIRTHS.....	3,880,894	5,994	10,653	11,341	12,735	14,936	56,899	179,511	3,587,099	1,726
INFANT DEATHS...	27,919	5,297	5,295	1,834	954	720	1,700	2,237	9,549	334
INF.MORT.RATE...	7.2	883.7	497.0	161.7	74.9	48.2	29.9	12.5	2.7	193.4
MALE										
LIVE BIRTHS.....	1,985,596	3,064	5,412	5,899	6,553	7,657	27,768	82,517	1,845,789	937
INFANT DEATHS...	15,642	2,740	3,054	1,125	560	388	858	1,164	5,562	190
INF.MORT.RATE...	7.9	894.2	564.3	190.8	85.4	50.7	30.9	14.1	3.0	203.0
FEMALE										
LIVE BIRTHS.....	1,895,298	2,930	5,241	5,442	6,182	7,279	29,131	96,994	1,741,310	789
INFANT DEATHS...	12,277	2,557	2,241	708	394	332	842	1,073	3,987	144
INF.MORT.RATE...	6.5	872.6	427.5	130.2	63.7	45.6	28.9	11.1	2.3	182.0
WHITE										
BOTH SEXES										
LIVE BIRTHS.....	3,072,640	3,315	6,265	7,048	8,355	9,979	39,047	124,972	2,872,582	1,077
INFANT DEATHS...	18,549	2,963	3,258	1,213	640	527	1,214	1,555	7,004	176
INF.MORT.RATE...	6.0	893.9	520.0	172.1	76.7	52.8	31.1	12.4	2.4	163.1
MALE										
LIVE BIRTHS.....	1,573,622	1,702	3,228	3,665	4,336	5,140	19,193	57,854	1,477,916	588
INFANT DEATHS...	10,471	1,535	1,887	739	373	283	617	800	4,133	104
INF.MORT.RATE...	6.7	901.9	584.4	201.6	86.0	55.1	32.1	13.8	2.8	176.9
FEMALE										
LIVE BIRTHS.....	1,499,018	1,613	3,037	3,383	4,019	4,839	19,854	67,118	1,394,666	489
INFANT DEATHS...	8,079	1,428	1,371	474	268	244	597	755	2,871	72
INF.MORT.RATE...	5.4	885.4	451.5	140.1	66.6	50.4	30.1	11.2	2.1	146.5
BLACK										
BOTH SEXES										
LIVE BIRTHS.....	599,913	2,484	3,990	3,831	3,831	4,296	15,163	44,612	521,347	359
INFANT DEATHS...	8,186	2,170	1,834	549	275	161	410	568	2,070	148
INF.MORT.RATE...	13.6	873.8	459.8	143.4	71.9	37.4	27.0	12.7	4.0	411.0
MALE										
LIVE BIRTHS.....	304,530	1,255	1,989	1,975	1,923	2,178	7,190	19,967	267,864	189
INFANT DEATHS...	4,499	1,110	1,057	339	162	86	203	297	1,165	79
INF.MORT.RATE...	14.8	884.1	531.3	171.8	84.5	39.7	28.2	14.9	4.4	416.1
FEMALE										
LIVE BIRTHS.....	295,383	1,229	2,001	1,856	1,908	2,118	7,973	24,645	253,483	170
INFANT DEATHS...	3,687	1,061	778	210	113	74	207	271	904	69
INF.MORT.RATE...	12.5	863.2	388.6	113.2	59.1	35.1	25.9	11.0	3.6	405.3

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1997 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	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
ALL RACES 1/										
TOTAL										
LIVE BIRTHS.....	3,880,894	28,005	46,398	204,232	157,965	1,793,421	851,729	458,145	302,541	38,458
INFANT DEATHS.....	27,919	11,504	2,288	2,515	1,058	5,471	2,013	1,107	1,032	931
INF. MORT. RATE....	7.2	410.8	49.3	12.3	6.7	3.1	2.4	2.4	3.4	24.2
LESS THAN 2,500 GRAMS										
LIVE BIRTHS.....	292,069	26,924	34,928	95,231	32,805	75,206	11,414	5,418	6,340	3,803
INFANT DEATHS.....	18,036	11,483	2,184	1,828	506	1,106	225	116	140	448
INF. MORT. RATE....	61.8	426.5	62.5	19.2	15.4	14.7	19.7	21.5	22.0	117.9
LESS THAN 500 GRAMS										
LIVE BIRTHS.....	5,994	5,538	232	21	2	6	3	-	-	192
INFANT DEATHS.....	5,297	4,967	157	11	2	2	3	-	-	155
INF. MORT. RATE....	883.7	896.8	678.1	533.1	1018.2	334.8	1031.7	-	-	804.9
500-749 GRAMS										
LIVE BIRTHS.....	10,653	9,000	1,239	104	7	17	6	1	4	275
INFANT DEATHS.....	5,295	4,741	362	35	2	5	1	-	-	148
INF. MORT. RATE....	497.0	526.8	292.3	341.0	286.4	300.6	171.6	-	-	537.1
750-999 GRAMS										
LIVE BIRTHS.....	11,341	6,939	3,585	408	32	91	45	19	23	199
INFANT DEATHS.....	1,834	1,303	425	47	3	10	2	-	-	44
INF. MORT. RATE....	161.7	187.8	118.5	114.8	94.9	112.7	45.3	-	-	220.0
1,000-1,249 GRAMS										
LIVE BIRTHS.....	12,735	2,882	6,853	2,030	136	381	96	67	88	202
INFANT DEATHS.....	954	305	416	147	14	30	4	7	8	21
INF. MORT. RATE....	74.9	106.0	60.7	72.3	106.2	80.0	42.3	106.1	91.7	103.6
1,250-1,499 GRAMS										
LIVE BIRTHS.....	14,936	865	7,778	4,669	382	664	162	68	124	224
INFANT DEATHS.....	720	64	329	188	30	71	8	7	6	17
INF. MORT. RATE....	48.2	73.5	42.2	40.3	79.8	106.9	49.9	104.7	49.4	75.2

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1997 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	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
ALL RACES 1/										
1,500-1,999 GRAMS										
LIVE BIRTHS.....	56,899	936	11,007	29,935	4,843	7,199	953	472	806	748
INFANT DEATHS.....	1,700	73	360	671	154	296	54	24	39	28
INF. MORT. RATE....	29.9	77.8	32.7	22.4	31.8	41.1	56.7	51.9	48.1	37.5
2,000-2,499 GRAMS										
LIVE BIRTHS.....	179,511	764	4,234	58,064	27,403	66,848	10,149	4,791	5,295	1,963
INFANT DEATHS.....	2,237	31	135	728	300	691	153	78	87	36
INF. MORT. RATE....	12.5	40.1	31.8	12.5	10.9	10.3	15.0	16.2	16.4	18.5
2,500-2,999 GRAMS										
LIVE BIRTHS.....	642,394	1,081	4,190	51,673	57,535	355,696	89,899	40,369	35,818	6,133
INFANT DEATHS.....	3,161	20	54	388	304	1,538	368	215	226	48
INF. MORT. RATE....	4.9	18.8	12.8	7.5	5.3	4.3	4.1	5.3	6.3	7.8
3,000-3,499 GRAMS										
LIVE BIRTHS.....	1,435,825	-	4,788	36,504	46,039	744,366	322,786	157,902	110,275	13,165
INFANT DEATHS.....	3,693	-	34	218	163	1,725	756	397	349	52
INF. MORT. RATE....	2.6	-	7.0	6.0	3.5	2.3	2.3	2.5	3.2	3.9
3,500-3,999 GRAMS										
LIVE BIRTHS.....	1,117,955	-	2,492	16,383	17,182	479,188	311,110	175,943	105,666	9,991
INFANT DEATHS.....	2,023	-	17	62	67	871	483	267	222	33
INF. MORT. RATE....	1.8	-	6.9	3.8	3.9	1.8	1.6	1.5	2.1	3.3
4,000-4,499 GRAMS										
LIVE BIRTHS.....	331,020	-	-	3,805	3,654	118,925	99,166	65,492	36,949	3,029
INFANT DEATHS.....	545	-	-	12	10	193	156	92	75	7
INF. MORT. RATE....	1.6	-	-	3.2	2.8	1.6	1.6	1.4	2.0	2.4
4,500-4,999 GRAMS										
LIVE BIRTHS.....	53,963	-	-	542	660	17,851	15,812	11,818	6,739	541
INFANT DEATHS.....	102	-	-	5	7	31	21	17	16	3
INF. MORT. RATE....	1.9	-	-	9.4	10.8	1.8	1.3	1.5	2.4	5.8

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1997 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	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
ALL RACES 1/										
5,000 GRAMS OR MORE										
LIVE BIRTHS.....	5,942	-	-	94	90	2,189	1,542	1,203	754	70
INFANT DEATHS.....	24	-	-	1	-	8	3	3	3	6
INF. MORT. RATE....	4.1	-	-	10.7	-	3.7	2.0	2.5	4.0	88.5
NOT STATED										
LIVE BIRTHS.....	1,726	-	-	-	-	-	-	-	-	1,726
INFANT DEATHS.....	334	-	-	-	-	-	-	-	-	334
INF. MORT. RATE....	193.4	-	-	-	-	-	-	-	-	193.4

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, 1997 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	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
WHITE										
TOTAL										
LIVE BIRTHS.....	3,072,640	16,204	30,326	145,634	118,679	1,417,786	693,618	378,151	243,494	28,748
INFANT DEATHS.....	18,549	6,846	1,531	1,764	729	4,030	1,495	831	764	561
INF. MORT. RATE....	6.0	422.5	50.5	12.1	6.1	2.8	2.2	2.2	3.1	19.5
LESS THAN 2,500 GRAMS										
LIVE BIRTHS.....	198,981	15,643	23,025	67,420	23,096	51,718	7,655	3,727	4,297	2,400
INFANT DEATHS.....	11,370	6,830	1,457	1,295	344	821	163	83	98	279
INF. MORT. RATE....	57.1	436.6	63.3	19.2	14.9	15.9	21.3	22.2	22.7	116.1
LESS THAN 500 GRAMS										
LIVE BIRTHS.....	3,315	3,045	139	13	-	5	2	-	-	111
INFANT DEATHS.....	2,963	2,770	90	7	-	2	2	-	-	92
INF. MORT. RATE....	893.9	909.8	644.1	542.7	-	401.8	1039.5	-	-	830.6
500-749 GRAMS										
LIVE BIRTHS.....	6,265	5,240	764	63	7	13	5	1	2	170
INFANT DEATHS.....	3,258	2,920	219	20	2	4	1	-	-	91
INF. MORT. RATE....	520.0	557.3	286.2	323.0	286.4	315.6	205.9	-	-	536.6
750-999 GRAMS										
LIVE BIRTHS.....	7,048	4,224	2,292	264	19	67	34	14	20	114
INFANT DEATHS.....	1,213	851	289	32	2	8	1	-	-	30
INF. MORT. RATE....	172.1	201.4	126.0	119.8	106.6	122.8	29.7	-	-	265.8
1,000-1,249 GRAMS										
LIVE BIRTHS.....	8,355	1,775	4,519	1,389	92	263	66	48	62	141
INFANT DEATHS.....	640	190	279	106	12	23	2	4	5	18
INF. MORT. RATE....	76.7	107.2	61.8	76.6	133.9	88.8	30.7	85.1	81.6	125.5
1,250-1,499 GRAMS										
LIVE BIRTHS.....	9,979	473	5,222	3,222	265	435	104	47	77	134

INFANT DEATHS.....	527	38	242	145	22	56	6	4	3	11
INF. MORT. RATE....	52.8	80.4	46.3	45.1	84.2	127.9	58.4	87.0	39.5	78.8

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1997 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	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
WHITE										
1,500-1,999 GRAMS										
LIVE BIRTHS.....	39,047	482	7,527	20,776	3,311	4,911	668	322	561	489
INFANT DEATHS.....	1,214	41	243	486	109	230	41	19	30	15
INF. MORT. RATE....	31.1	85.3	32.3	23.4	33.0	46.8	61.2	60.2	52.8	29.8
2,000-2,499 GRAMS										
LIVE BIRTHS.....	124,972	404	2,562	41,693	19,402	46,024	6,776	3,295	3,575	1,241
INFANT DEATHS.....	1,555	19	96	498	196	497	110	55	60	22
INF. MORT. RATE....	12.4	48.1	37.5	12.0	10.1	10.8	16.2	16.8	16.8	17.8
2,500-2,999 GRAMS										
LIVE BIRTHS.....	459,862	561	2,434	36,781	42,609	254,863	63,968	29,145	25,363	4,138
INFANT DEATHS.....	2,216	15	38	265	217	1,079	260	152	157	34
INF. MORT. RATE....	4.8	27.1	15.4	7.2	5.1	4.2	4.1	5.2	6.2	8.3
3,000-3,499 GRAMS										
LIVE BIRTHS.....	1,123,860	-	3,062	25,717	35,665	584,911	253,683	125,015	85,935	9,872
INFANT DEATHS.....	2,676	-	22	148	108	1,267	548	293	254	35
INF. MORT. RATE....	2.4	-	7.3	5.8	3.0	2.2	2.2	2.3	3.0	3.6
3,500-3,999 GRAMS										
LIVE BIRTHS.....	944,629	-	1,805	12,193	13,673	404,710	264,930	150,316	88,854	8,148
INFANT DEATHS.....	1,578	-	14	43	48	684	376	210	178	26
INF. MORT. RATE....	1.7	-	7.9	3.5	3.5	1.7	1.4	1.4	2.0	3.2
4,000-4,499 GRAMS										
LIVE BIRTHS.....	291,289	-	-	3,008	3,026	104,171	87,897	58,241	32,347	2,599
INFANT DEATHS.....	437	-	-	8	6	152	127	74	62	7
INF. MORT. RATE....	1.5	-	-	2.7	2.0	1.5	1.4	1.3	1.9	2.8
4,500-4,999 GRAMS										

LIVE BIRTHS.....	47,812	-	-	436	529	15,565	14,138	10,640	6,037	467
INFANT DEATHS.....	82	-	-	4	5	22	20	16	13	1
INF. MORT. RATE....	1.7	-	-	9.3	9.6	1.4	1.4	1.5	2.2	2.1

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1997 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	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
WHITE										
5,000 GRAMS OR MORE										
LIVE BIRTHS.....	5,130	-	-	79	81	1,848	1,347	1,067	661	47
INFANT DEATHS.....	14	-	-	1	-	5	1	2	2	3
INF. MORT. RATE....	2.8	-	-	12.8	-	2.7	.7	1.9	3.1	66.7
NOT STATED										
LIVE BIRTHS.....	1,077	-	-	-	-	-	-	-	-	1,077
INFANT DEATHS.....	176	-	-	-	-	-	-	-	-	176
INF. MORT. RATE....	163.1	-	-	-	-	-	-	-	-	163.1

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, 1997 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	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
BLACK										
TOTAL										
LIVE BIRTHS.....	599,913	10,736	14,040	48,350	31,026	273,351	113,749	58,647	44,745	5,269
INFANT DEATHS.....	8,186	4,257	666	645	275	1,166	424	224	216	312
INF. MORT. RATE....	13.6	396.5	47.4	13.3	8.9	4.3	3.7	3.8	4.8	59.2
LESS THAN 2,500 GRAMS										
LIVE BIRTHS.....	78,207	10,285	10,498	23,341	7,949	18,941	3,066	1,411	1,716	1,000
INFANT DEATHS.....	5,968	4,253	637	455	135	241	46	26	38	137
INF. MORT. RATE....	76.3	413.5	60.7	19.5	17.0	12.7	14.8	18.8	22.0	136.7
LESS THAN 500 GRAMS										
LIVE BIRTHS.....	2,484	2,319	88	6	2	1	-	-	-	68
INFANT DEATHS.....	2,170	2,047	64	4	2	-	-	-	-	54
INF. MORT. RATE....	873.8	882.7	723.0	690.1	1018.2	-	-	-	-	789.7
500-749 GRAMS										
LIVE BIRTHS.....	3,990	3,441	425	35	-	2	1	-	1	85
INFANT DEATHS.....	1,834	1,641	132	14	-	-	-	-	-	47
INF. MORT. RATE....	459.8	476.9	311.2	403.2	-	-	-	-	-	552.3
750-999 GRAMS										
LIVE BIRTHS.....	3,831	2,446	1,147	121	11	21	11	4	3	67
INFANT DEATHS.....	549	405	116	13	1	2	1	-	-	11
INF. MORT. RATE....	143.4	165.6	100.8	109.0	91.9	96.8	93.2	-	-	171.0
1,000-1,249 GRAMS										
LIVE BIRTHS.....	3,831	981	2,046	550	39	98	27	19	23	48
INFANT DEATHS.....	275	100	119	37	2	7	2	3	3	2
INF. MORT. RATE....	71.9	101.7	58.0	68.1	54.2	72.5	75.3	158.9	131.0	44.1

1,250-1,499 GRAMS										
LIVE BIRTHS.....	4,296	356	2,255	1,231	99	193	42	17	42	61
INFANT DEATHS.....	161	23	74	33	7	14	-	2	3	4
INF. MORT. RATE....	37.4	65.8	32.9	26.4	72.0	74.3	-	118.5	73.3	66.5

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1997 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	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
BLACK										
1,500-1,999 GRAMS										
LIVE BIRTHS.....	15,163	424	3,038	7,749	1,274	1,919	247	130	206	176
INFANT DEATHS.....	410	28	103	159	33	54	11	5	8	8
INF. MORT. RATE....	27.0	67.1	33.8	20.5	26.3	28.0	45.0	39.3	39.6	46.7
2,000-2,499 GRAMS										
LIVE BIRTHS.....	44,612	318	1,499	13,649	6,524	16,707	2,738	1,241	1,441	495
INFANT DEATHS.....	568	8	30	195	89	164	31	16	24	10
INF. MORT. RATE....	12.7	25.7	20.3	14.3	13.7	9.8	11.4	13.2	16.3	20.7
2,500-2,999 GRAMS										
LIVE BIRTHS.....	139,692	451	1,529	12,242	11,742	75,725	19,661	8,749	8,466	1,127
INFANT DEATHS.....	797	4	14	108	73	395	85	48	61	9
INF. MORT. RATE....	5.7	9.2	9.2	8.9	6.2	5.2	4.3	5.5	7.2	8.2
3,000-3,499 GRAMS										
LIVE BIRTHS.....	227,482	-	1,436	8,804	8,079	114,667	49,975	24,274	18,583	1,664
INFANT DEATHS.....	824	-	11	62	48	348	175	90	79	10
INF. MORT. RATE....	3.6	-	7.7	7.0	5.9	3.0	3.5	3.7	4.3	6.2
3,500-3,999 GRAMS										
LIVE BIRTHS.....	122,133	-	577	3,270	2,697	51,961	32,171	18,319	12,242	896
INFANT DEATHS.....	344	-	3	16	15	141	89	46	29	4
INF. MORT. RATE....	2.8	-	5.3	5.0	5.7	2.7	2.8	2.5	2.4	4.5
4,000-4,499 GRAMS										
LIVE BIRTHS.....	27,343	-	-	597	454	10,242	7,629	5,012	3,227	182
INFANT DEATHS.....	81	-	-	2	2	31	26	13	6	-
INF. MORT. RATE....	3.0	-	-	3.4	4.5	3.1	3.4	2.6	1.9	-

4,500-4,999 GRAMS										
LIVE BIRTHS.....	4,167	-	-	84	98	1,580	1,115	802	456	32
INFANT DEATHS.....	14	-	-	1	2	7	-	-	2	2
INF. MORT. RATE....	3.4	-	-	12.1	20.9	4.5	-	-	4.4	66.4

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1997 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	37-39 WEEKS	40 WEEKS	41 WEEKS	42 WEEKS OR MORE	NOT STATED
BLACK										
5,000 GRAMS OR MORE										
LIVE BIRTHS.....	530	-	-	12	7	235	132	80	55	9
INFANT DEATHS.....	9	-	-	-	-	3	2	1	1	2
INF. MORT. RATE....	17.3	-	-	-	-	12.9	15.5	13.0	18.2	228.4
NOT STATED										
LIVE BIRTHS.....	359	-	-	-	-	-	-	-	-	359
INFANT DEATHS.....	148	-	-	-	-	-	-	-	-	148
INF. MORT. RATE....	411.0	-	-	-	-	-	-	-	-	411.0

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

- DATA NOT AVAILABLE.

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
UNITED STATES, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
ALL RACES1/						
TOTAL (ALL BIRTH WEIGHTS)...NUMBER..	3,880,894	27,919	18,532	14,830	3,702	9,387
RATE..		7.2	4.8	3.8	1.0	2.4
LESS THAN 2,500 GRAMS.....NUMBER..	292,069	18,036	14,711	12,427	2,284	3,325
RATE..		61.8	50.4	42.5	7.8	11.4
LESS THAN 500 GRAMS.....NUMBER..	5,994	5,297	5,205	5,070	135	92
RATE..		883.7	868.3	845.8	22.5	15.4
500-749 GRAMS.....NUMBER..	10,653	5,295	4,670	3,831	839	625
RATE..		497.0	438.3	359.6	78.8	58.7
750-999 GRAMS.....NUMBER..	11,341	1,834	1,391	948	443	443
RATE..		161.7	122.6	83.6	39.1	39.0
1,000-1,249 GRAMS.....NUMBER..	12,735	954	685	484	201	269
RATE..		74.9	53.8	38.0	15.8	21.1
1,250-1,499 GRAMS.....NUMBER..	14,936	720	510	405	106	210
RATE..		48.2	34.2	27.1	7.1	14.1
1,500-1,999 GRAMS.....NUMBER..	56,899	1,700	1,073	834	239	627
RATE..		29.9	18.9	14.7	4.2	11.0
2,000-2,499 GRAMS.....NUMBER..	179,511	2,237	1,178	856	321	1,060
RATE..		12.5	6.6	4.8	1.8	5.9
2,500-2,999 GRAMS.....NUMBER..	642,394	3,161	1,260	791	470	1,901
RATE..		4.9	2.0	1.2	.7	3.0
3,000-3,499 GRAMS.....NUMBER..	1,435,825	3,693	1,278	707	571	2,416
RATE..		2.6	.9	.5	.4	1.7

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
UNITED STATES, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
ALL RACES1/						
3,500-3,999 GRAMS.....NUMBER..	1,117,955	2,023	674	412	262	1,349
RATE..		1.8	.6	.4	.2	1.2
4,000-4,499 GRAMS.....NUMBER..	331,020	545	225	138	87	321
RATE..		1.6	.7	.4	.3	1.0
4,500-4,999 GRAMS.....NUMBER..	53,963	102	45	31	14	57
RATE..		1.9	.8	.6	.3	1.1
5,000 GRAMS OR MORE.....NUMBER..	5,942	24	16	13	3	8
RATE..		4.1	2.7	2.2	.5	1.4
NOT STATED.....NUMBER..	1,726	334	324	311	12	10
RATE..		193.4	187.5	180.5	7.0	5.9

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
UNITED STATES, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE						
TOTAL (ALL BIRTH WEIGHTS)...NUMBER..	3,072,640	18,549	12,264	9,676	2,589	6,285
RATE..		6.0	4.0	3.1	.8	2.0
LESS THAN 2,500 GRAMS.....NUMBER..	198,981	11,370	9,356	7,861	1,495	2,014
RATE..		57.1	47.0	39.5	7.5	10.1
LESS THAN 500 GRAMS.....NUMBER..	3,315	2,963	2,907	2,836	70	57
RATE..		893.9	876.8	855.6	21.2	17.1
500-749 GRAMS.....NUMBER..	6,265	3,258	2,908	2,400	508	350
RATE..		520.0	464.2	383.1	81.0	55.9
750-999 GRAMS.....NUMBER..	7,048	1,213	970	662	308	243
RATE..		172.1	137.6	93.9	43.6	34.5
1,000-1,249 GRAMS.....NUMBER..	8,355	640	493	357	136	147
RATE..		76.7	59.0	42.8	16.3	17.6
1,250-1,499 GRAMS.....NUMBER..	9,979	527	386	318	68	141
RATE..		52.8	38.7	31.9	6.8	14.1
1,500-1,999 GRAMS.....NUMBER..	39,047	1,214	811	637	174	403
RATE..		31.1	20.8	16.3	4.4	10.3
2,000-2,499 GRAMS.....NUMBER..	124,972	1,555	882	650	232	673
RATE..		12.4	7.1	5.2	1.9	5.4
2,500-2,999 GRAMS.....NUMBER..	459,862	2,216	957	604	353	1,259
RATE..		4.8	2.1	1.3	.8	2.7

3,000-3,499 GRAMS.....NUMBER..	1,123,860	2,676	999	564	435	1,677
RATE..		2.4	.9	.5	.4	1.5

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
UNITED STATES, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE						
3,500-3,999 GRAMS.....NUMBER..	944,629	1,578	549	339	210	1,029
RATE..		1.7	.6	.4	.2	1.1
4,000-4,499 GRAMS.....NUMBER..	291,289	437	187	113	73	251
RATE..		1.5	.6	.4	.3	.9
4,500-4,999 GRAMS.....NUMBER..	47,812	82	39	25	13	44
RATE..		1.7	.8	.5	.3	.9
5,000 GRAMS OR MORE.....NUMBER..	5,130	14	9	7	2	5
RATE..		2.8	1.8	1.4	.4	1.0
NOT STATED.....NUMBER..	1,077	176	169	161	7	7
RATE..		163.1	156.5	149.9	6.6	6.6

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
UNITED STATES, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK						
TOTAL (ALL BIRTH WEIGHTS)...NUMBER..	599,913	8,186	5,546	4,597	949	2,639
RATE..		13.6	9.2	7.7	1.6	4.4
LESS THAN 2,500 GRAMS.....NUMBER..	78,207	5,968	4,804	4,114	689	1,165
RATE..		76.3	61.4	52.6	8.8	14.9
LESS THAN 500 GRAMS.....NUMBER..	2,484	2,170	2,137	2,077	60	33
RATE..		873.8	860.4	836.3	24.0	13.4
500-749 GRAMS.....NUMBER..	3,990	1,834	1,580	1,287	294	254
RATE..		459.8	396.1	322.4	73.6	63.7
750-999 GRAMS.....NUMBER..	3,831	549	371	253	118	178
RATE..		143.4	96.9	66.0	30.9	46.5
1,000-1,249 GRAMS.....NUMBER..	3,831	275	163	104	59	112
RATE..		71.9	42.5	27.2	15.3	29.4
1,250-1,499 GRAMS.....NUMBER..	4,296	161	98	64	33	63
RATE..		37.4	22.8	15.0	7.8	14.6
1,500-1,999 GRAMS.....NUMBER..	15,163	410	216	162	55	193
RATE..		27.0	14.3	10.7	3.6	12.8
2,000-2,499 GRAMS.....NUMBER..	44,612	568	238	167	71	330
RATE..		12.7	5.3	3.7	1.6	7.4
2,500-2,999 GRAMS.....NUMBER..	139,692	797	251	155	96	546
RATE..		5.7	1.8	1.1	.7	3.9

3,000-3,499 GRAMS.....NUMBER..	227,482	824	218	110	107	606
RATE..		3.6	1.0	.5	.5	2.7

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTH WEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
UNITED STATES, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK						
3,500-3,999 GRAMS.....NUMBER..	122,133	344	89	51	39	254
RATE..		2.8	.7	.4	.3	2.1
4,000-4,499 GRAMS.....NUMBER..	27,343	81	28	18	10	53
RATE..		3.0	1.0	.7	.4	1.9
4,500-4,999 GRAMS.....NUMBER..	4,167	14	5	4	1	9
RATE..		3.4	1.2	1.0	.2	2.2
5,000 GRAMS OR MORE.....NUMBER..	530	9	6	5	1	3
RATE..		17.3	11.6	9.6	1.9	5.7
NOT STATED.....NUMBER..	359	148	144	139	5	3
RATE..		411.0	402.5	388.4	14.1	8.5

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
ALL RACES 1/, ALL BIRTH WEIGHTS						
ALL CAUSES.....NUMBER...	3,880,894	27,919	18,532	14,830	3,702	9,387
RATE..		719.4	477.5	382.1	95.4	241.9
CONGENITAL ANOMALIES (740-759).....NUMBER...		6,213	4,513	3,454	1,059	1,700
RATE..		160.1	116.3	89.0	27.3	43.8
PREMATURITY (765).....NUMBER...		3,917	3,858	3,796	62	59
RATE..		100.9	99.4	97.8	1.6	1.5
SUDDEN INFANT DEATH SYNDROME (798.0)..NUMBER...		2,902	187	28	158	2,716
RATE..		74.8	4.8	.7	4.1	70.0
RESPIRATORY DISTRESS SYNDROME (769)...NUMBER...		1,297	1,227	979	248	70
RATE..		33.4	31.6	25.2	6.4	1.8
MATERNAL COMPLICATIONS (761).....NUMBER...		1,233	1,226	1,211	14	7
RATE..		31.8	31.6	31.2	.4	.2
COMPLICATIONS OF PLACENTA,ETC. (762)..NUMBER...		948	938	916	22	10
RATE..		24.4	24.2	23.6	.6	.3
ACCIDENTS (E800-E949).....NUMBER...		754	87	32	56	666
RATE..		19.4	2.3	.8	1.4	17.2
INFECTIONS (771).....NUMBER...		777	735	329	406	43
RATE..		20.0	18.9	8.5	10.5	1.1
PNEUMONIA AND INFLUENZA (480-487).....NUMBER...		412	99	25	73	313
RATE..		10.6	2.5	.7	1.9	8.1
HYPOXIA AND ASPHYXIA (768).....NUMBER...		455	422	337	85	33
RATE..		11.7	10.9	8.7	2.2	.8
ALL OTHER CAUSES.....NUMBER...		9,010	5,240	3,722	1,519	3,770
RATE..		232.2	135.0	95.9	39.1	97.1

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
ALL RACES 1/, LESS THAN 2,500 GRAMS							
ALL CAUSES	NUMBER...	292,069	18,036	14,711	12,427	2,284	3,325
	RATE..		6,175.2	5,036.7	4,254.8	782.0	1,138.4
CONGENITAL ANOMALIES (740-759)	NUMBER...		3,511	2,834	2,401	433	676
	RATE..		1,202.0	970.5	822.2	148.2	231.5
PREMATURITY (765)	NUMBER...		3,733	3,679	3,620	59	54
	RATE..		1,278.1	1,259.6	1,239.5	20.2	18.4
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER...		620	41	5	35	579
	RATE..		212.2	13.9	1.8	12.1	198.3
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER...		1,249	1,192	956	236	57
	RATE..		427.7	408.2	327.2	80.9	19.5
MATERNAL COMPLICATIONS (761)	NUMBER...		1,168	1,163	1,149	14	5
	RATE..		399.9	398.2	393.4	4.8	1.7
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER...		829	822	810	12	7
	RATE..		283.8	281.4	277.2	4.2	2.4
ACCIDENTS (E800-E949)	NUMBER...		117	19	11	8	97
	RATE..		40.0	6.7	3.9	2.8	33.3
INFECTIONS (771)	NUMBER...		652	614	265	349	39
	RATE..		223.3	210.1	90.7	119.4	13.2
PNEUMONIA AND INFLUENZA (480-487)	NUMBER...		195	57	18	39	138
	RATE..		66.7	19.5	6.2	13.2	47.3
HYPOXIA AND ASPHYXIA (768)	NUMBER...		209	205	184	21	4
	RATE..		71.6	70.2	62.9	7.3	1.4
ALL OTHER CAUSES	NUMBER...		5,753	4,085	3,008	1,077	1,669

RATE..	1,969.9	1,398.6	1,029.8	368.8	571.3	

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
ALL RACES 1/, 2,500 GRAMS OR MORE							
ALL CAUSES	NUMBER...	3,587,099	9,549	3,497	2,091	1,406	6,052
	RATE..		266.2	97.5	58.3	39.2	168.7
CONGENITAL ANOMALIES (740-759)	NUMBER...		2,679	1,658	1,035	622	1,021
	RATE..		74.7	46.2	28.9	17.3	28.5
PREMATURITY (765)	NUMBER...		39	36	34	2	3
	RATE..		1.1	1.0	.9	.1	.1
SUDDEN INFANT DEATH SYNDROME (798.0)	NUMBER...		2,283	146	23	123	2,137
	RATE..		63.6	4.1	.6	3.4	59.6
RESPIRATORY DISTRESS SYNDROME (769)	NUMBER...		39	26	15	11	13
	RATE..		1.1	.7	.4	.3	.4
MATERNAL COMPLICATIONS (761)	NUMBER...		17	15	15	-	2
	RATE..		.5	.4	.4	-	.1
COMPLICATIONS OF PLACENTA,ETC. (762)	NUMBER...		93	90	81	9	3
	RATE..		2.6	2.5	2.2	.3	.1
ACCIDENTS (E800-E949)	NUMBER...		634	65	17	48	569
	RATE..		17.7	1.8	.5	1.3	15.9
INFECTIONS (771)	NUMBER...		121	117	64	53	4
	RATE..		3.4	3.3	1.8	1.5	.1
PNEUMONIA AND INFLUENZA (480-487)	NUMBER...		217	42	7	35	175
	RATE..		6.1	1.2	.2	1.0	4.9
HYPOXIA AND ASPHYXIA (768)	NUMBER...		240	212	149	63	29
	RATE..		6.7	5.9	4.2	1.8	.8

ALL OTHER CAUSES.....NUMBER...	3,187	1,091	651	440	2,095
RATE..	88.8	30.4	18.1	12.3	58.4

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
ALL RACES 1/, NOT STATED BIRTH WEIGHT						
ALL CAUSES.....NUMBER...	1,726	334	324	311	12	10
RATE..		19,340.3	18,752.2	18,047.3	704.9	588.1
CONGENITAL ANOMALIES (740-759).....NUMBER...		23	21	17	4	2
RATE..		1,356.1	1,237.0	1,002.3	234.8	119.1
PREMATURITY (765).....NUMBER...		145	143	142	1	2
RATE..		8,386.0	8,269.1	8,209.7	59.4	117.0
SUDDEN INFANT DEATH SYNDROME (798.0)..NUMBER...		-	-	-	-	-
RATE..		-	-	-	-	-
RESPIRATORY DISTRESS SYNDROME (769)...NUMBER...		9	9	9	-	-
RATE..		530.1	530.1	530.1	-	-
MATERNAL COMPLICATIONS (761).....NUMBER...		47	47	47	-	-
RATE..		2,734.2	2,734.2	2,734.2	-	-
COMPLICATIONS OF PLACENTA,ETC. (762)..NUMBER...		27	27	26	1	-
RATE..		1,549.1	1,549.1	1,489.7	59.4	-
ACCIDENTS (E800-E949).....NUMBER...		3	3	3	-	-
RATE..		178.8	178.8	178.8	-	-
INFECTIONS (771).....NUMBER...		4	4	-	4	-
RATE..		234.3	234.3	-	234.3	-
PNEUMONIA AND INFLUENZA (480-487).....NUMBER...		-	-	-	-	-
RATE..		-	-	-	-	-

HYPOXIA AND ASPHYXIA (768).....NUMBER...		5	5	4	1	-
RATE..		292.1	292.1	233.7	58.4	-
ALL OTHER CAUSES.....NUMBER...		70	64	63	1	6
RATE..		4,079.6	3,727.5	3,668.9	58.6	352.1

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE, ALL BIRTH WEIGHTS						
ALL CAUSES.....NUMBER...	3,072,640	18,549	12,264	9,676	2,589	6,285
RATE..		603.7	399.1	314.9	84.2	204.5
CONGENITAL ANOMALIES (740-759).....NUMBER...		4,838	3,556	2,714	842	1,282
RATE..		157.5	115.7	88.3	27.4	41.7
PREMATURITY (765).....NUMBER...		2,099	2,059	2,019	40	41
RATE..		68.3	67.0	65.7	1.3	1.3
SUDDEN INFANT DEATH SYNDROME (798.0)..NUMBER...		1,906	127	23	103	1,779
RATE..		62.0	4.1	.8	3.4	57.9
RESPIRATORY DISTRESS SYNDROME (769)...NUMBER...		792	751	604	147	41
RATE..		25.8	24.4	19.6	4.8	1.3
MATERNAL COMPLICATIONS (761).....NUMBER...		791	785	778	7	6
RATE..		25.8	25.6	25.3	.2	.2
COMPLICATIONS OF PLACENTA,ETC. (762)..NUMBER...		635	626	610	16	9
RATE..		20.7	20.4	19.8	.5	.3
ACCIDENTS (E800-E949).....NUMBER...		523	67	24	44	455
RATE..		17.0	2.2	.8	1.4	14.8
INFECTIONS (771).....NUMBER...		517	489	219	270	27
RATE..		16.8	15.9	7.1	8.8	.9
PNEUMONIA AND INFLUENZA (480-487).....NUMBER...		254	70	20	50	184

RATE..		8.3	2.3	.7	1.6	6.0
HYPOXIA AND ASPHYXIA (768).....NUMBER...		321	299	237	62	22
RATE..		10.5	9.7	7.7	2.0	.7
ALL OTHER CAUSES.....NUMBER...		5,873	3,435	2,427	1,008	2,438
RATE..		191.1	111.8	79.0	32.8	79.3

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE, LESS THAN 2,500 GRAMS						
ALL CAUSES.....NUMBER...	198,981	11,370	9,356	7,861	1,495	2,014
RATE..		5,713.9	4,701.8	3,950.5	751.2	1,012.1
CONGENITAL ANOMALIES (740-759).....NUMBER...		2,677	2,193	1,864	330	483
RATE..		1,345.2	1,102.3	936.6	165.7	243.0
PREMATURITY (765).....NUMBER...		2,001	1,963	1,925	38	38
RATE..		1,005.5	986.6	967.7	18.9	18.9
SUDDEN INFANT DEATH SYNDROME (798.0)..NUMBER...		347	25	4	21	322
RATE..		174.4	12.8	2.1	10.7	161.7
RESPIRATORY DISTRESS SYNDROME (769)...NUMBER...		759	724	586	138	35
RATE..		381.4	363.9	294.5	69.4	17.5
MATERNAL COMPLICATIONS (761).....NUMBER...		755	750	743	7	5
RATE..		379.6	377.1	373.5	3.6	2.5
COMPLICATIONS OF PLACENTA,ETC. (762)..NUMBER...		549	543	534	9	6
RATE..		275.8	272.8	268.2	4.6	3.1
ACCIDENTS (E800-E949).....NUMBER...		64	12	8	4	52
RATE..		32.1	6.2	4.2	2.0	25.9
INFECTIONS (771).....NUMBER...		424	400	170	230	23
RATE..		213.0	201.2	85.6	115.7	11.8

PNEUMONIA AND INFLUENZA (480-487).....NUMBER...		115	40	13	26	75
RATE..		57.7	19.9	6.6	13.3	37.8
HYPOXIA AND ASPHYXIA (768).....NUMBER...		131	127	112	14	4
RATE..		65.7	63.6	56.4	7.2	2.1
ALL OTHER CAUSES.....NUMBER...		3,549	2,578	1,901	677	971
RATE..		1,783.4	1,295.5	955.2	340.3	487.9

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE, 2,500 GRAMS OR MORE							
ALL CAUSES.....NUMBER...		2,872,582	7,004	2,740	1,653	1,087	4,264
RATE..			243.8	95.4	57.6	37.8	148.4
CONGENITAL ANOMALIES (740-759).....NUMBER...			2,145	1,348	839	509	797
RATE..			74.7	46.9	29.2	17.7	27.8
PREMATURITY (765).....NUMBER...			29	27	25	2	2
RATE..			1.0	.9	.9	.1	.1
SUDDEN INFANT DEATH SYNDROME (798.0)..NUMBER...			1,559	101	19	82	1,458
RATE..			54.3	3.5	.7	2.9	50.7
RESPIRATORY DISTRESS SYNDROME (769)...NUMBER...			27	21	12	9	6
RATE..			.9	.7	.4	.3	.2
MATERNAL COMPLICATIONS (761).....NUMBER...			13	12	12	-	1
RATE..			.5	.4	.4	-	.0
COMPLICATIONS OF PLACENTA,ETC. (762)..NUMBER...			70	67	61	6	3
RATE..			2.4	2.3	2.1	.2	.1
ACCIDENTS (E800-E949).....NUMBER...			456	52	12	39	404
RATE..			15.9	1.8	.4	1.4	14.1

INFECTIONS (771).....NUMBER...		90	86	49	37	4
RATE..		3.1	3.0	1.7	1.3	.1
PNEUMONIA AND INFLUENZA (480-487).....NUMBER...		139	31	7	24	109
RATE..		4.8	1.1	.2	.8	3.8
HYPOXIA AND ASPHYXIA (768).....NUMBER...		189	171	123	48	18
RATE..		6.6	6.0	4.3	1.7	.6
ALL OTHER CAUSES.....NUMBER...		2,287	825	494	331	1,462
RATE..		79.6	28.7	17.2	11.5	50.9

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE, NOT STATED BIRTH WEIGHT						
ALL CAUSES.....NUMBER...	1,077	176	169	161	7	7
RATE..		16,310.8	15,651.9	14,991.8	660.1	658.9
CONGENITAL ANOMALIES (740-759).....NUMBER...		16	15	12	3	1
RATE..		1,512.6	1,417.3	1,134.6	282.7	95.2
PREMATURITY (765).....NUMBER...		70	69	69	-	1
RATE..		6,461.4	6,367.5	6,367.5	-	93.9
SUDDEN INFANT DEATH SYNDROME (798.0)..NUMBER...		-	-	-	-	-
RATE..		-	-	-	-	-
RESPIRATORY DISTRESS SYNDROME (769)...NUMBER...		6	6	6	-	-
RATE..		567.3	567.3	567.3	-	-
MATERNAL COMPLICATIONS (761).....NUMBER...		23	23	23	-	-
RATE..		2,103.5	2,103.5	2,103.5	-	-
COMPLICATIONS OF PLACENTA,ETC. (762)..NUMBER...		16	16	15	1	-
RATE..		1,512.8	1,512.8	1,417.6	95.2	-
ACCIDENTS (E800-E949).....NUMBER...		3	3	3	-	-

	RATE..	286.5	286.5	286.5	-	-
INFECTIONS (771).....	NUMBER...	3	3	-	3	-
	RATE..	282.2	282.2	-	282.2	-
PNEUMONIA AND INFLUENZA (480-487).....	NUMBER...	-	-	-	-	-
	RATE..	-	-	-	-	-
HYPOXIA AND ASPHYXIA (768).....	NUMBER...	1	1	1	-	-
	RATE..	92.9	92.9	92.9	-	-
ALL OTHER CAUSES.....	NUMBER...	38	33	33	-	5
	RATE..	3,491.8	3,022.0	3,022.0	-	469.8

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK, ALL BIRTH WEIGHTS							
ALL CAUSES.....	NUMBER...	599,913	8,186	5,546	4,597	949	2,639
	RATE..		1,364.5	924.5	766.3	158.2	440.0
CONGENITAL ANOMALIES (740-759).....	NUMBER...		1,084	757	586	171	327
	RATE..		180.8	126.2	97.7	28.5	54.5
PREMATURITY (765).....	NUMBER...		1,704	1,687	1,664	22	17
	RATE..		284.0	281.2	277.5	3.7	2.9
SUDDEN INFANT DEATH SYNDROME (798.0)..	NUMBER...		853	50	5	45	803
	RATE..		142.2	8.3	.8	7.4	133.9
RESPIRATORY DISTRESS SYNDROME (769)...	NUMBER...		457	429	341	88	27
	RATE..		76.1	71.5	56.8	14.7	4.6
MATERNAL COMPLICATIONS (761).....	NUMBER...		406	405	398	6	1
	RATE..		67.6	67.4	66.4	1.0	.2
COMPLICATIONS OF PLACENTA,ETC. (762)..	NUMBER...		277	276	270	6	1
	RATE..		46.1	46.0	45.0	1.0	.2

ACCIDENTS (E800-E949).....NUMBER...		205	17	6	11	188
RATE..		34.1	2.9	1.0	1.9	31.3
INFECTIONS (771).....NUMBER...		227	213	95	118	14
RATE..		37.9	35.5	15.8	19.7	2.4
PNEUMONIA AND INFLUENZA (480-487).....NUMBER...		140	25	4	21	114
RATE..		23.3	4.2	.7	3.6	19.1
HYPOXIA AND ASPHYXIA (768).....NUMBER...		114	104	86	18	10
RATE..		19.0	17.3	14.3	3.1	1.7
ALL OTHER CAUSES.....NUMBER...		2,720	1,584	1,142	441	1,136
RATE..		453.3	264.0	190.4	73.6	189.4

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK, LESS THAN 2,500 GRAMS						
ALL CAUSES.....NUMBER...	78,207	5,968	4,804	4,114	689	1,165
RATE..		7,631.6	6,142.1	5,260.5	881.6	1,489.5
CONGENITAL ANOMALIES (740-759).....NUMBER...		671	517	431	86	154
RATE..		858.5	661.6	551.4	110.2	196.9
PREMATURITY (765).....NUMBER...		1,624	1,609	1,587	21	15
RATE..		2,076.3	2,056.8	2,029.6	27.2	19.4
SUDDEN INFANT DEATH SYNDROME (798.0)..NUMBER...		243	10	1	9	233
RATE..		311.1	12.9	1.3	11.6	298.2
RESPIRATORY DISTRESS SYNDROME (769)...NUMBER...		443	422	336	86	21
RATE..		566.9	539.7	429.5	110.2	27.2
MATERNAL COMPLICATIONS (761).....NUMBER...		377	377	371	6	-
RATE..		482.0	482.0	474.2	7.8	-
COMPLICATIONS OF PLACENTA,ETC. (762)..NUMBER...		250	249	246	3	1

	RATE..	319.6	318.3	314.4	3.9	1.3
ACCIDENTS (E800-E949).....	NUMBER...	49	6	2	4	43
	RATE..	62.3	7.8	2.6	5.1	54.5
INFECTIONS (771).....	NUMBER...	202	188	84	103	14
	RATE..	258.2	240.0	108.0	132.0	18.2
PNEUMONIA AND INFLUENZA (480-487).....	NUMBER...	75	15	4	11	60
	RATE..	95.9	19.4	5.2	14.3	76.4
HYPOXIA AND ASPHYXIA (768).....	NUMBER...	71	71	64	7	-
	RATE..	91.1	91.1	82.1	9.0	-
ALL OTHER CAUSES.....	NUMBER...	1,963	1,339	987	352	624
	RATE..	2,509.8	1,712.4	1,262.1	450.3	797.5

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK, 2,500 GRAMS OR MORE							
ALL CAUSES.....	NUMBER...	521,347	2,070	598	344	254	1,471
	RATE..		397.0	114.7	65.9	48.8	282.2
CONGENITAL ANOMALIES (740-759).....	NUMBER...		408	236	152	84	172
	RATE..		78.2	45.2	29.1	16.1	33.0
PREMATURITY (765).....	NUMBER...		9	8	8	-	1
	RATE..		1.8	1.6	1.6	-	.2
SUDDEN INFANT DEATH SYNDROME (798.0)..	NUMBER...		610	40	4	36	570
	RATE..		116.9	7.6	.8	6.8	109.4
RESPIRATORY DISTRESS SYNDROME (769)...	NUMBER...		10	4	2	2	6
	RATE..		1.9	.8	.4	.4	1.2
MATERNAL COMPLICATIONS (761).....	NUMBER...		4	3	3	-	1
	RATE..		.8	.6	.6	-	.2

COMPLICATIONS OF PLACENTA,ETC. (762)..NUMBER...		16	16	13	3	-
RATE..		3.1	3.1	2.6	.6	-
ACCIDENTS (E800-E949).....NUMBER...		156	11	4	7	145
RATE..		29.9	2.1	.8	1.4	27.8
INFECTIONS (771).....NUMBER...		24	24	10	14	-
RATE..		4.6	4.6	1.9	2.7	-
PNEUMONIA AND INFLUENZA (480-487).....NUMBER...		65	10	-	10	55
RATE..		12.4	2.0	-	2.0	10.5
HYPOXIA AND ASPHYXIA (768).....NUMBER...		39	29	18	10	10
RATE..		7.4	5.5	3.5	2.0	2.0
ALL OTHER CAUSES.....NUMBER...		728	217	129	88	511
RATE..		139.7	41.6	24.7	16.9	98.1

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, 1997 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 NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK, NOT STATED BIRTH WEIGHT							
ALL CAUSES.....NUMBER...		359	148	144	139	5	3
RATE..			41,098.9	40,248.0	38,839.5	1,408.5	850.9
CONGENITAL ANOMALIES (740-759).....NUMBER...			5	4	3	1	1
RATE..			1,410.7	1,123.9	843.2	280.7	286.8
PREMATURITY (765).....NUMBER...			71	70	69	1	1
RATE..			19,786.6	19,505.9	19,220.3	285.6	280.6
SUDDEN INFANT DEATH SYNDROME (798.0)..NUMBER...			-	-	-	-	-
RATE..			-	-	-	-	-
RESPIRATORY DISTRESS SYNDROME (769)...NUMBER...			3	3	3	-	-
RATE..			846.7	846.7	846.7	-	-
MATERNAL COMPLICATIONS (761).....NUMBER...			25	25	25	-	-
RATE..			6,834.7	6,834.7	6,834.7	-	-

COMPLICATIONS OF PLACENTA,ETC. (762)..	NUMBER...	10	10	10	-	-
	RATE..	2,909.6	2,909.6	2,909.6	-	-
ACCIDENTS (E800-E949).....	NUMBER...	-	-	-	-	-
	RATE..	-	-	-	-	-
INFECTIONS (771).....	NUMBER...	1	1	-	1	-
	RATE..	279.9	279.9	-	279.9	-
PNEUMONIA AND INFLUENZA (480-487).....	NUMBER...	-	-	-	-	-
	RATE..	-	-	-	-	-
HYPOXIA AND ASPHYXIA (768).....	NUMBER...	4	4	3	1	-
	RATE..	1,125.8	1,125.8	845.1	280.6	-
ALL OTHER CAUSES.....	NUMBER...	28	27	26	1	1
	RATE..	7,905.0	7,621.5	7,339.8	281.7	283.5

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE:
UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1997 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 1997 OR 1998 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	POST-NEONATAL
UNITED STATES 2/	576	442	391	51	134
WHITE	368	286	249	37	82
BLACK	179	136	122	14	43
ALABAMA	1	-	-	-	1
WHITE	1	-	-	-	1
BLACK	-	-	-	-	-
ALASKA	1	1	1	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
ARIZONA	12	3	3	-	9
WHITE	8	2	2	-	6
BLACK	1	-	-	-	1
ARKANSAS	7	6	4	2	1
WHITE	3	3	1	2	-
BLACK	4	3	3	-	1
CALIFORNIA	180	154	142	12	26
WHITE	138	120	111	9	18
BLACK	33	27	24	3	6
COLORADO	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
CONNECTICUT	2	2	1	1	-
WHITE	2	2	1	1	-
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 -- 1997 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 1997 OR 1998 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	POST-NEONATAL
DISTRICT OF COLUMBIA	1	1	1	-	-
WHITE	-	-	-	-	-
BLACK	1	1	1	-	-
FLORIDA	10	7	7	-	3
WHITE	7	5	5	-	2
BLACK	3	2	2	-	1
GEORGIA	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
HAWAII	3	2	2	-	1
WHITE	1	-	-	-	1
BLACK	-	-	-	-	-
IDAHO	2	2	2	-	-
WHITE	2	2	2	-	-
BLACK	-	-	-	-	-
ILLINOIS	21	14	12	2	7
WHITE	10	8	7	1	2
BLACK	11	6	5	1	5
INDIANA	14	11	7	4	3
WHITE	12	9	6	3	3
BLACK	2	2	1	1	-
IOWA	1	1	1	-	-
WHITE	1	1	1	-	-
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 -- 1997 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 1997 OR 1998 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	POST-NEONATAL
KENTUCKY	10	8	7	1	2
WHITE	9	8	7	1	1
BLACK	1	-	-	-	1
LOUISIANA	15	14	12	2	1
WHITE	1	1	-	1	-
BLACK	14	13	12	1	1
MAINE	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
MARYLAND	15	6	6	-	9
WHITE	3	1	1	-	2
BLACK	12	5	5	-	7
MASSACHUSETTS	8	8	5	3	-
WHITE	6	6	5	1	-
BLACK	2	2	-	2	-
MICHIGAN	22	14	11	3	8
WHITE	12	9	7	2	3
BLACK	9	5	4	1	4
MINNESOTA	1	-	-	-	1
WHITE	-	-	-	-	-
BLACK	1	-	-	-	1
MISSISSIPPI	3	2	-	2	1
WHITE	3	2	-	2	1
BLACK	-	-	-	-	-
MISSOURI	11	7	6	1	4

WHITE	6	3	2	1	3
BLACK	5	4	4	-	1

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE:
UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1997 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 1997 OR 1998 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	POST-NEONATAL
MONTANA	1	-	-	-	1
WHITE	1	-	-	-	1
BLACK	-	-	-	-	-
NEBRASKA	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
NEVADA	9	2	1	1	7
WHITE	7	1	-	1	6
BLACK	-	-	-	-	-
NEW HAMPSHIRE	1	-	-	-	1
WHITE	1	-	-	-	1
BLACK	-	-	-	-	-
NEW JERSEY	19	16	15	1	3
WHITE	12	9	9	-	3
BLACK	6	6	5	1	-
NEW MEXICO	12	11	11	-	1
WHITE	10	9	9	-	1
BLACK	-	-	-	-	-
NEW YORK	9	6	5	1	3
WHITE	5	4	3	1	1
BLACK	4	2	2	-	2
NEW YORK CITY	15	10	9	1	5
WHITE	7	5	4	1	2
BLACK	6	4	4	-	2

NORTH CAROLINA	5	2	2	-	3
WHITE	2	2	2	-	-
BLACK	2	-	-	-	2

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE:
UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1997 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 1997 OR 1998 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	POST-NEONATAL
NORTH DAKOTA	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
OHIO	53	40	35	5	13
WHITE	28	18	15	3	10
BLACK	25	22	20	2	3
OKLAHOMA	33	30	28	2	3
WHITE	22	20	18	2	2
BLACK	8	7	7	-	1
OREGON	2	1	1	-	1
WHITE	1	1	1	-	-
BLACK	1	-	-	-	1
PENNSYLVANIA	26	22	21	1	4
WHITE	12	10	9	1	2
BLACK	13	11	11	-	2
RHODE ISLAND	1	-	-	-	1
WHITE	1	-	-	-	1
BLACK	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
SOUTH DAKOTA	1	-	-	-	1
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-

TENNESSEE	2	2	2	-	-
WHITE	2	2	2	-	-
BLACK	-	-	-	-	-

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE:
UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1997 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 1997 OR 1998 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	POST-NEONATAL
TEXAS	28	22	19	3	6
WHITE	19	14	12	2	5
BLACK	9	8	7	1	1
UTAH	2	-	-	-	2
WHITE	2	-	-	-	2
BLACK	-	-	-	-	-
VERMONT	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
VIRGINIA	13	12	10	2	1
WHITE	7	6	5	1	1
BLACK	6	6	5	1	-
WASHINGTON	1	1	1	-	-
WHITE	1	1	1	-	-
BLACK	-	-	-	-	-
WEST VIRGINIA	2	1	1	-	1
WHITE	2	1	1	-	1
BLACK	-	-	-	-	-
WISCONSIN	1	1	-	1	-
WHITE	1	1	-	1	-
BLACK	-	-	-	-	-
WYOMING	-	-	-	-	-

WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
FOREIGN RESIDENTS	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 -- 1997 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 1997 OR 1998 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	POST-NEONATAL
PUERTO RICO 3/	2	2	1	1	-
WHITE	2	2	1	1	-
BLACK	-	-	-	-	-
VIRGIN ISLANDS 3/	-	-	-	-	-
WHITE	-	-	-	-	-
BLACK	-	-	-	-	-
GUAM 3/	1	1	1	-	-
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

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)

Listing of Cities/Places Identified in the Linked Data Set

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

FIPS Codes State	City/Place	State and City/Place Name
12		Florida
	35000	Jacksonville
	45000	Miami
	71000	Tampa
13		Georgia
	04000	Atlanta
15		Hawaii
	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

FIPS Codes State	City/Place	State and City/Place Name
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
	40000	Las Vegas
33		New Hampshire
34		New Jersey
	51000	Newark
35		New Mexico
	02000	Albuquerque
36		New York
	51000	Bronx borough, Bronx county
	11000	Buffalo
	51000	Manhattan borough, New York county
	51000	Queens borough, Queens county
	51000	Staten Island borough, Richmond county

FIPS Codes State	City/Place	State and City/Place Name
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

FIPS Codes		
State	City/Place	State and City/Place Name
48		Texas
	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

State	FIPS Codes City/Place	State and City/Place Name
72	00000	Puerto Rico
78	00000	Virgin Islands
66	00000	Guam
00	00000	Canada
00	00000	Cuba
00	00000	Mexico
00	00000	Remainder of World

Listing of Counties Identified in the Linked Data Set

State	County	State and County Name
01		Alabama
	073	Jefferson
	097	Mobile
02		Alaska
04		Arizona
	013	Maricopa
	019	Pima
05		Arkansas
	119	Pulaski
06		California
	001	Alameda
	013	Contra Costa
	019	Fresno
	029	Kern
	037	Los Angeles
	053	Monterey
	059	Orange
	065	Riverside
	067	Sacramento
	071	San Bernardino
	073	San Diego
	075	San Francisco, coext. with San Francisco city
	077	San Joaquin
	081	San Mateo
	083	Santa Barbara
	085	Santa Clara
	095	Solano
	097	Sonoma
	099	Stanislaus
	107	Tulare
	111	Ventura

Listing of Counties Identified in the Linked Data Set

State	County	State and County Name
08		Colorado
	001	Adams
	005	Arapahoe
	031	Denver, coext. with Denver city
	041	El Paso
	059	Jefferson
09		Connecticut
	001	Fairfield
	003	Hartford
	009	New Haven
	011	New London
10		Delaware
	003	New Castle
11		District of Columbia
	001	District of Columbia
12		Florida
	009	Brevard
	011	Broward
	025	Dade
	031	Duval
	033	Escambia
	057	Hillsborough
	071	Lee
	095	Orange
	099	Palm Beach
	101	Pasco
	103	Pinellas
	105	Polk
	115	Sarasota
	117	Seminole
	127	Volusia
13		Georgia
	067	Cobb
	089	De Kalb

	121	Fulton
	135	Gwinnett

Listing of Counties Identified in the Linked Data Set

State	County	State and County Name
15		Hawaii
	003	Honolulu
16		Idaho
17		Illinois
	031	Cook
	043	Du Page
	089	Kane
	097	Lake
	163	St. Clair
	197	Will
	201	Winnebago
18		Indiana
	003	Allen
	089	Lake
	097	Marion
19		Iowa
	153	Polk
20		Kansas
	091	Johnson
	173	Sedgwick
21		Kentucky
	111	Jefferson
22		Louisiana
	033	East Baton Rouge
	051	Jefferson
	071	Orleans, coext. with New Orleans city
23		Maine
24		Maryland
	003	Anne Arundel

005 Baltimore
510 Baltimore city
031 Montgomery

Listing of Counties Identified in the Linked Data Set

State	County	State and County Name
24		Maryland
	033	Prince George's
25		Massachusetts
	005	Bristol
	009	Essex
	013	Hampden
	017	Middlesex
	021	Norfolk
	023	Plymouth
	025	Suffolk
	027	Worcester
26		Michigan
	049	Genesee
	065	Ingham
	081	Kent
	099	Macomb
	125	Oakland
	161	Washtenaw
	163	Wayne
27		Minnesota
	037	Dakota
	053	Hennepin
	123	Ramsey
28		Mississippi
	049	Hinds
29		Missouri
	095	Jackson
	189	St. Louis
	510	St. Louis city
30		Montana

31		Nebraska
	055	Douglas

Listing of Counties Identified in the Linked Data Set

State	County	State and County Name
32		Nevada
	003	Clark
	031	Washoe
33		New Hampshire
	011	Hillsborough
34		New Jersey
	003	Bergen
	005	Burlington
	007	Camden
	013	Essex
	017	Hudson
	021	Mercer
	023	Middlesex
	025	Monmouth
	027	Morris
	029	Ocean
	031	Passaic
	039	Union
35		New Mexico
	001	Bernalillo
36		New York
	001	Albany
	027	Dutchess
	029	Erie
	055	Monroe
	059	Nassau
	085	Staten Island borough, Richmond county
	081	Queens borough, Queens county
	061	Manhattan borough, New York county
	047	Brooklyn borough, Kings county
	005	Bronx borough, Bronx county
	065	Oneida

067	Onondaga
071	Orange
087	Rockland
103	Suffolk
119	Westchester

Listing of Counties Identified in the Linked Data Set

State	County	State and County Name
37		North Carolina
	051	Cumberland
	067	Forsyth
	081	Guilford
	119	Mecklenburg
	183	Wake
38		North Dakota
39		Ohio
	017	Butler
	035	Cuyahoga
	049	Franklin
	061	Hamilton
	093	Lorain
	095	Lucas
	099	Mahoning
	113	Montgomery
	151	Stark
	153	Summit
40		Oklahoma
	109	Oklahoma
	143	Tulsa
41		Oregon
	005	Clackamas
	039	Lane
	051	Multnomah
	067	Washington
42		Pennsylvania
	003	Allegheny
	011	Berks
	017	Bucks

029	Chester
045	Delaware
049	Erie
071	Lancaster
077	Lehigh
079	Luzerne

Listing of Counties Identified in the Linked Data Set

State	County	State and County Name
42		Pennsylvania
	091	Montgomery
	101	Philadelphia, coext. with Philadelphia city
	129	Westmoreland
	133	York
44		Rhode Island
	007	Providence
45		South Carolina
	019	Charleston
	045	Greenville
	079	Richland
46		South Dakota
47		Tennessee
	037	Davidson
	065	Hamilton
	093	Knox
	157	Shelby
48		Texas
	029	Bexar
	061	Cameron
	085	Collin
	113	Dallas
	121	Denton
	141	El Paso
	201	Harris
	215	Hidalgo
	355	Nueces
	439	Tarrant
	453	Travis

State	County	State and County Name
49		Utah
	035	Salt Lake
	049	Utah
50		Vermont

Listing of Counties Identified in the Linked Data Set

State	County	State and County Name
51		Virginia
	059	Fairfax
	710	Norfolk city
	810	Virginia Beach city
53		Washington
	033	King
	053	Pierce
	061	Snohomish
	063	Spokane
54		West Virginia
55		Wisconsin
	025	Dane
	079	Milwaukee
	133	Waukesha
56		Wyoming

Listing of Counties Identified in the Linked Data Set

State	County	State and County Name
72		Puerto Rico
	127	San Juan
78		Virgin Islands
66	010	Guam
00	000	Canada
00	000	Cuba
00	000	Mexico
00	000	Remainder of World

1997 Linked Birth/Infant Death Data Set — Birth Cohort

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 linked 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 1997 birth cohort linked file, the county and city/place codes and the State code immediately preceding them are FIPS codes. These codes were effective with the 1994 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.