

Linked Birth/Infant Death Data Set — 1998 Birth Cohort

DSN:

CC36.NATAL.COHORT98.DENOM
CC36.NATAL.COHORT98.DENOM.PS
CC36.NATAL.COHORT98.LINK
CC36.NATAL.COHORT98.LINK.PS
CC36.NATAL.COHORT98.UNLINK
CC36.NATAL.COHORT98.UNLINK.PS

Introduction

This documentation is for the 1998 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 1998 period linked file consists of all infant deaths occurring in 1998 linked to their corresponding birth certificates, whether the birth occurred in 1998 or 1997. The denominator file for this data set is the 1998 natality file, that is, all births occurring in 1998. 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 1998 birth cohort linked file consists of deaths to infants born in 1998 linked to their corresponding birth certificates, whether the death occurred in 1998 or 1999. The denominator file is the 1998 natality file, that is, all births occurring in 1998.

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. For most general purposes, differences between the birth cohort and 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 1998 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 1998 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 1998 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.

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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 1998 birth cohort linked file, 98.3% of infant death records were linked to their corresponding birth certificates. Overall, 1.7% 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:

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

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 478 (by residence) or 478 (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

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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.

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 reduced the percent of not-stated responses for birthweight, 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

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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 1998 birth cohort linked file 478, or 1.7% 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 1998 birth cohort linked file includes 27,743 linked infant death records and 478 unlinked infant death records by place of occurrence. The linked file is weighted to the sum of linked plus unlinked records, thus the total number of weighted infant deaths by place of occurrence is 28,221. While the overall percent linked for infant deaths in the 1998 birth cohort linked file is

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98.3%, 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. 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.

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.

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Table 1. Percent of infant deaths linked by state of residence of birth: United States, 1998 birth cohort

United States	98.3%	Nebraska	100.0%
Alabama	99.8%	Nevada	95.9%
Alaska	98.5%	New Hampshire	100.0%
Arizona	98.1%	New Jersey	98.1%
Arkansas	97.3%	New Mexico	94.9%
California	96.3%	Upstate New York	98.0%
Colorado	99.8%	New York City	97.7%
Connecticut	99.0%	North Carolina	99.7%
Delaware	100.0%	North Dakota	100.0%
District of Columbia	98.9%	Ohio	95.1%
Florida	99.9%	Oklahoma	92.8%
Georgia	100.0%	Oregon	99.6%
Hawaii	100.0%	Pennsylvania	98.5%
Idaho	97.8%	Rhode Island	100.0%
Illinois	98.6%	South Carolina	100.0%
Indiana	98.3%	South Dakota	100.0%
Iowa	100.0%	Tennessee	100.0%
Kansas	98.9%	Texas	97.8%
Kentucky	98.0%	Utah	99.6%
Louisiana	98.1%	Vermont	100.0%
Maine	97.6%	Virginia	99.0%
Maryland	98.9%	Washington	99.1%
Massachusetts	97.9%	West Virginia	98.1%
Michigan	98.8%	Wisconsin	100.0%
Minnesota	100.0%	Wyoming	100.0%
Mississippi	99.5%		
Missouri	98.6%		
Montana	97.3%		

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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.

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- 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.

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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.

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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

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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.

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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

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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.

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List of Data Elements and Locations

<u>Data Items</u>	<u>Denominator- Plus File</u>	<u>Numerator Birth</u>	<u>File Death</u>	<u>Unlinked File</u>
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	--	--

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List of Data Elements and Locations

<u>Data Items</u>	<u>Denominator- Plus File</u>	<u>Numerator File</u>		<u>Unlinked File</u>
		<u>Birth</u>	<u>Death</u>	
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.

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
1	1	<p><u>MATCHS</u> <u>Match Status</u></p> <p>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.</p>
2- 6	5	<p><u>IDNUMBER</u> <u>Infant Death Number</u></p> <p>This number uniquely identifies the same infant in the numerator and denominator-plus files.</p>
<p>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.</p>		
<p>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 <u>Mother</u>; whereas in the mortality section of the Numerator (Linked) Record, these items refer to the residence of the <u>Decedent</u>.</p>		
7-10	4	<p><u>BIRYR</u> <u>Year of Birth</u></p> <p>1998 ... Born in 1998</p>
11	1	<p><u>RESSTATB</u> <u>Resident Status - Birth</u></p> <p><u>United States Occurrence</u></p> <p>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.</p> <p><u>Puerto Rico Occurrence</u></p> <p>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.</p>

Denominator Record and Natality Section of Numerator (Linked) Record

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

Denominator Record and Natality Section of Numerator (Linked) Record

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

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.

Denominator Record and Natality Section of Numerator (Linked) Record

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14-18	5	<p><u>FIPSOCCB</u> <u>Federal Information Processing Standards (FIPS) Geographic Codes (Occurrence) - Birth</u></p> <p>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.</p>																																																																																							
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Denominator Record and Natality Section of Numerator (Linked) Record

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14-15	2	<p><u>STOCCFIPB</u> <u>State of Occurrence (FIPS) - Birth (Cond't)</u></p> <p><u>United States</u></p> <p>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</p> <p><u>Puerto Rico</u></p> <p>72 ... Puerto Rico</p> <p><u>Virgin Islands</u></p> <p>78 ... Virgin Islands</p> <p><u>Guam</u></p> <p>66 ... Guam</p>
16-18	3	<p><u>CNTOCFIPB</u> <u>County of Occurrence (FIPS) - Birth</u></p> <p>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.)</p> <p>999 ... County with less than 250,000 population</p>

Denominator Record and Natality Section of Numerator (Linked) Record

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19-23	5	<p><u>FIPSRESB</u> <u>Federal Information Processing Standards (FIPS) Geographic Codes (Residence) - Birth</u></p> <p>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.</p>																																																																																																																											
19-20	2	<p><u>STRESFIPB</u> <u>State of Residence (FIPS) - Birth</u></p> <p><u>United States Occurrence</u></p> <table border="1"> <tbody> <tr><td>00</td><td>...</td><td>Foreign residents</td></tr> <tr><td>01</td><td>...</td><td>Alabama</td></tr> <tr><td>02</td><td>...</td><td>Alaska</td></tr> <tr><td>04</td><td>...</td><td>Arizona</td></tr> <tr><td>05</td><td>...</td><td>Arkansas</td></tr> <tr><td>06</td><td>...</td><td>California</td></tr> <tr><td>08</td><td>...</td><td>Colorado</td></tr> <tr><td>09</td><td>...</td><td>Connecticut</td></tr> <tr><td>10</td><td>...</td><td>Delaware</td></tr> <tr><td>11</td><td>...</td><td>District of Columbia</td></tr> <tr><td>12</td><td>...</td><td>Florida</td></tr> <tr><td>13</td><td>...</td><td>Georgia</td></tr> <tr><td>15</td><td>...</td><td>Hawaii</td></tr> <tr><td>16</td><td>...</td><td>Idaho</td></tr> <tr><td>17</td><td>...</td><td>Illinois</td></tr> <tr><td>18</td><td>...</td><td>Indiana</td></tr> <tr><td>19</td><td>...</td><td>Iowa</td></tr> <tr><td>20</td><td>...</td><td>Kansas</td></tr> <tr><td>21</td><td>...</td><td>Kentucky</td></tr> <tr><td>22</td><td>...</td><td>Louisiana</td></tr> <tr><td>23</td><td>...</td><td>Maine</td></tr> <tr><td>24</td><td>...</td><td>Maryland</td></tr> <tr><td>25</td><td>...</td><td>Massachusetts</td></tr> <tr><td>26</td><td>...</td><td>Michigan</td></tr> <tr><td>27</td><td>...</td><td>Minnesota</td></tr> <tr><td>28</td><td>...</td><td>Mississippi</td></tr> <tr><td>29</td><td>...</td><td>Missouri</td></tr> <tr><td>30</td><td>...</td><td>Montana</td></tr> <tr><td>31</td><td>...</td><td>Nebraska</td></tr> <tr><td>32</td><td>...</td><td>Nevada</td></tr> <tr><td>33</td><td>...</td><td>New Hampshire</td></tr> <tr><td>34</td><td>...</td><td>New Jersey</td></tr> <tr><td>35</td><td>...</td><td>New Mexico</td></tr> <tr><td>36</td><td>...</td><td>New York</td></tr> <tr><td>37</td><td>...</td><td>North Carolina</td></tr> <tr><td>38</td><td>...</td><td>North Dakota</td></tr> <tr><td>39</td><td>...</td><td>Ohio</td></tr> <tr><td>40</td><td>...</td><td>Oklahoma</td></tr> <tr><td>41</td><td>...</td><td>Oregon</td></tr> <tr><td>42</td><td>...</td><td>Pennsylvania</td></tr> <tr><td>44</td><td>...</td><td>Rhode Island</td></tr> </tbody> </table>	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
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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	<p><u>PLRES</u> <u>Place (City) of Residence (FIPS)</u></p> <p>A complete list of cities is shown in the Geographic Code Outline further back in this document.</p> <table border="0"> <tr><td>00000</td><td>...</td><td>Foreign residents</td></tr> <tr><td>00001-nnnnn</td><td>...</td><td>Code range</td></tr> <tr><td>99999</td><td>...</td><td>Balance of county; or city less than 250,000 population</td></tr> </table>	00000	...	Foreign residents	00001-nnnnn	...	Code range	99999	...	Balance of county; or city less than 250,000 population																																													
00000	...	Foreign residents																																																						
00001-nnnnn	...	Code range																																																						
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Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
29	1	<p><u>MAGEFLG</u> <u>Age of Mother Flag</u></p> <p>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.</p> <p>Blank ... Not imputed and reported age is not used 1 ... Reported age is used 2 ... Age is imputed</p>
30-31	2	<p><u>DMAGE</u> <u>Age of Mother</u></p> <p>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.</p> <p>10-54 ... Age in single years</p>
32	1	<p><u>MAGER8</u> <u>Age of Mother Recode 8</u></p> <p>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</p>
33	1	<p><u>ORMOTH</u> <u>Hispanic Origin of Mother</u></p> <p>Hispanic origin is reported for all areas except Puerto Rico.</p> <p>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</p>

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>																																										
34	1	<p><u>ORRACEM</u> <u>Hispanic Origin and Race of Mother Recode</u></p> <p>Hispanic origin is reported for all areas except Puerto Rico.</p> <table border="0"> <tr><td>1</td><td>...</td><td>Mexican</td></tr> <tr><td>2</td><td>...</td><td>Puerto Rican</td></tr> <tr><td>3</td><td>...</td><td>Cuban</td></tr> <tr><td>4</td><td>...</td><td>Central or South American</td></tr> <tr><td>5</td><td>...</td><td>Other and unknown Hispanic</td></tr> <tr><td>6</td><td>...</td><td>Non-Hispanic White</td></tr> <tr><td>7</td><td>...</td><td>Non-Hispanic Black</td></tr> <tr><td>8</td><td>...</td><td>Non-Hispanic other races</td></tr> <tr><td>9</td><td>...</td><td>Origin unknown or not stated</td></tr> </table>	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															
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	<p><u>MRACEIMP</u> <u>Race of Mother Imputation Flag</u></p> <table border="0"> <tr><td>Blank</td><td>...</td><td>Race is not imputed</td></tr> <tr><td>1</td><td>...</td><td>Race is imputed</td></tr> <tr><td>2</td><td>...</td><td>All other races, formerly code 09, is imputed</td></tr> </table>	Blank	...	Race is not imputed	1	...	Race is imputed	2	...	All other races, formerly code 09, is imputed																																	
Blank	...	Race is not imputed																																										
1	...	Race is imputed																																										
2	...	All other races, formerly code 09, is imputed																																										
36-37	2	<p><u>MRACE</u> <u>Race of Mother - Birth Record or for Unlinked Records Race of Decedent from Death Record</u></p> <p>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.</p> <p><u>United States Occurrence</u></p> <table border="0"> <tr><td>01</td><td>...</td><td>White</td></tr> <tr><td>02</td><td>...</td><td>Black</td></tr> <tr><td>03</td><td>...</td><td>American Indian (includes Aleuts and Eskimos)</td></tr> <tr><td>04</td><td>...</td><td>Chinese</td></tr> <tr><td>05</td><td>...</td><td>Japanese</td></tr> <tr><td>06</td><td>...</td><td>Hawaiian (includes part-Hawaiian)</td></tr> <tr><td>07</td><td>...</td><td>Filipino</td></tr> <tr><td>18</td><td>...</td><td>Asian Indian</td></tr> <tr><td>28</td><td>...</td><td>Korean</td></tr> <tr><td>38</td><td>...</td><td>Samoan</td></tr> <tr><td>48</td><td>...</td><td>Vietnamese</td></tr> <tr><td>58</td><td>...</td><td>Guamanian</td></tr> <tr><td>68</td><td>...</td><td>Other Asian or Pacific Islander in areas reporting codes 18-58</td></tr> <tr><td>78</td><td>...</td><td>Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately</td></tr> </table>	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
01	...	White																																										
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Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
36-37	2	<p><u>MRACE</u> <u>Race of Mother - Birth Record or for Unlinked Records Race of Decedent from Death Record (Cond't)</u></p> <p><u>Puerto Rico Occurrence</u></p> <p>00 ... Other races 01 ... White 02 ... Black</p> <p><u>Virgin Islands Occurrence</u></p> <p>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</p> <p><u>Guam Occurrence</u></p> <p>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</p>
38	1	<p><u>MRACE3</u> <u>Race of Mother Recode</u></p> <p>1 ... White 2 ... Races other than White or Black 3 ... Black</p>

Denominator Record and Natality Section of Numerator (Linked) Record

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

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
44-45	2	<u>MPLBIR</u> <u>Place of Birth of Mother</u>
		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

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>																														
44-45	2	<p><u>MPLBIR</u> <u>Place of Birth of Mother (Cond't)</u></p> <table border="1"> <tr><td>50</td><td>...</td><td>Wisconsin</td></tr> <tr><td>51</td><td>...</td><td>Wyoming</td></tr> <tr><td>52</td><td>...</td><td>Puerto Rico</td></tr> <tr><td>53</td><td>...</td><td>Virgin Islands</td></tr> <tr><td>54</td><td>...</td><td>Guam</td></tr> <tr><td>55</td><td>...</td><td>Canada</td></tr> <tr><td>56</td><td>...</td><td>Cuba</td></tr> <tr><td>57</td><td>...</td><td>Mexico</td></tr> <tr><td>59</td><td>...</td><td>Remainder of the World</td></tr> <tr><td>99</td><td>...</td><td>Not Classifiable</td></tr> </table>	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
50	...	Wisconsin																														
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56	...	Cuba																														
57	...	Mexico																														
59	...	Remainder of the World																														
99	...	Not Classifiable																														
46	1	<p><u>MPLBIRR</u> <u>Place of Birth of Mother Recode</u></p> <p><u>United States Occurrence</u></p> <table border="1"> <tr><td>1</td><td>...</td><td>Born in the 50 States and D.C.</td></tr> <tr><td>2</td><td>...</td><td>Born outside the 50 States and DC</td></tr> <tr><td>3</td><td>...</td><td>Unknown or not stated</td></tr> </table> <p><u>Puerto Rico/Virgin Island/ Guam Occurrence</u></p> <table border="1"> <tr><td>Blank</td><td>...</td><td>This item not recorded</td></tr> </table>	1	...	Born in the 50 States and D.C.	2	...	Born outside the 50 States and DC	3	...	Unknown or not stated	Blank	...	This item not recorded																		
1	...	Born in the 50 States and D.C.																														
2	...	Born outside the 50 States and DC																														
3	...	Unknown or not stated																														
Blank	...	This item not recorded																														
47-48	2	<p><u>DTOTORD</u> <u>Detail Total Birth Order</u></p> <p>Sum of live birth order and other terminations of pregnancy. If either item is unknown, this item is made unknown.</p> <table border="1"> <tr><td>01-40</td><td>...</td><td>Total number of live births and other terminations of pregnancy</td></tr> <tr><td>99</td><td>...</td><td>Unknown</td></tr> </table>	01-40	...	Total number of live births and other terminations of pregnancy	99	...	Unknown																								
01-40	...	Total number of live births and other terminations of pregnancy																														
99	...	Unknown																														
49-50	2	<p><u>DLIVORD</u> <u>Detail Live Birth Order</u></p> <p>Sum of live births now living and now dead plus one. If either item is unknown, this item is made unknown.</p> <table border="1"> <tr><td>00-31</td><td>...</td><td>Number of children born alive to mother</td></tr> <tr><td>99</td><td>...</td><td>Unknown</td></tr> </table>	00-31	...	Number of children born alive to mother	99	...	Unknown																								
00-31	...	Number of children born alive to mother																														
99	...	Unknown																														

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>																																	
51-52	2	<p><u>MONPRE</u> <u>Detail Month of Pregnancy Prenatal Care Began</u></p> <table> <tr><td>00</td><td>...</td><td>No prenatal care</td></tr> <tr><td>01</td><td>...</td><td>1st month</td></tr> <tr><td>02</td><td>...</td><td>2nd month</td></tr> <tr><td>03</td><td>...</td><td>3rd month</td></tr> <tr><td>04</td><td>...</td><td>4th month</td></tr> <tr><td>05</td><td>...</td><td>5th month</td></tr> <tr><td>06</td><td>...</td><td>6th month</td></tr> <tr><td>07</td><td>...</td><td>7th month</td></tr> <tr><td>08</td><td>...</td><td>8th month</td></tr> <tr><td>09</td><td>...</td><td>9th month</td></tr> <tr><td>99</td><td>...</td><td>Unknown or not stated</td></tr> </table>	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
00	...	No prenatal care																																	
01	...	1st month																																	
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03	...	3rd month																																	
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07	...	7th month																																	
08	...	8th month																																	
09	...	9th month																																	
99	...	Unknown or not stated																																	
53	1	<p><u>MPRES</u> <u>Month Prenatal Care Began Recode 5</u></p> <table> <tr><td>1</td><td>...</td><td>1st Trimester (1st-3rd month)</td></tr> <tr><td>2</td><td>...</td><td>2nd Trimester (4th-6th month)</td></tr> <tr><td>3</td><td>...</td><td>3rd Trimester (7th-9th month)</td></tr> <tr><td>4</td><td>...</td><td>No prenatal care</td></tr> <tr><td>5</td><td>...</td><td>Unknown or not stated</td></tr> </table>	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																		
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	<p><u>NPREVIST</u> <u>Total Number of Prenatal Visits</u></p> <table> <tr><td>00</td><td>...</td><td>No prenatal visits</td></tr> <tr><td>01-48</td><td>...</td><td>Stated number of visits</td></tr> <tr><td>49</td><td>...</td><td>49 or more visits</td></tr> <tr><td>99</td><td>...</td><td>Unknown or not stated</td></tr> </table>	00	...	No prenatal visits	01-48	...	Stated number of visits	49	...	49 or more visits	99	...	Unknown or not stated																					
00	...	No prenatal visits																																	
01-48	...	Stated number of visits																																	
49	...	49 or more visits																																	
99	...	Unknown or not stated																																	
56	1	<p><u>ADEQUACY</u> <u>Adequacy of Care Recode (Kessner Index)</u></p> <p>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.</p> <table> <tr><td>1</td><td>...</td><td>Adequate</td></tr> <tr><td>2</td><td>...</td><td>Intermediate</td></tr> <tr><td>3</td><td>...</td><td>Inadequate</td></tr> <tr><td>4</td><td>...</td><td>Unknown</td></tr> </table>	1	...	Adequate	2	...	Intermediate	3	...	Inadequate	4	...	Unknown																					
1	...	Adequate																																	
2	...	Intermediate																																	
3	...	Inadequate																																	
4	...	Unknown																																	
57-59	3	<p><u>R1</u> <u>Reserved Positions</u></p>																																	

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
60	1	<p><u>FAGERFLG</u> <u>Reported Age of Father Used Flag</u></p> <p>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.</p> <p>Blank ... Reported age is not used 1 ... Reported age is used</p>
61-62	2	<p><u>DFAGE</u> <u>Age of Father</u></p> <p>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.</p> <p>10-98 ... Age in single years 99 ... Unknown or not stated</p>
63	1	<p><u>ORFATH</u> <u>Hispanic Origin of Father</u></p> <p>Hispanic origin is reported for all areas except Puerto Rico.</p> <p>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</p>
64	1	<p><u>ORRACEF</u> <u>Hispanic Origin and Race of Father Recode</u></p> <p>Hispanic origin is reported for all areas except Puerto Rico.</p> <p>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</p>

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>																																																																																				
65-66	2	<p><u>FRACE</u> <u>Race of Father</u></p> <p>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.</p> <p><u>United States Occurrence</u></p> <table border="0"> <tr><td>01</td><td>...</td><td>White</td></tr> <tr><td>02</td><td>...</td><td>Black</td></tr> <tr><td>03</td><td>...</td><td>American Indian (includes Aleuts and Eskimos)</td></tr> <tr><td>04</td><td>...</td><td>Chinese</td></tr> <tr><td>05</td><td>...</td><td>Japanese</td></tr> <tr><td>06</td><td>...</td><td>Hawaiian (includes part-Hawaiian)</td></tr> <tr><td>07</td><td>...</td><td>Filipino</td></tr> <tr><td>18</td><td>...</td><td>Asian Indian</td></tr> <tr><td>28</td><td>...</td><td>Korean</td></tr> <tr><td>38</td><td>...</td><td>Samoan</td></tr> <tr><td>48</td><td>...</td><td>Vietnamese</td></tr> <tr><td>58</td><td>...</td><td>Guamanian</td></tr> <tr><td>68</td><td>...</td><td>Other Asian or Pacific Islander in areas reporting codes 18-58</td></tr> <tr><td>78</td><td>...</td><td>Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately</td></tr> <tr><td>99</td><td>...</td><td>Unknown or not stated</td></tr> </table> <p><u>Puerto Rico Occurrence</u></p> <table border="0"> <tr><td>00</td><td>...</td><td>Other races</td></tr> <tr><td>01</td><td>...</td><td>White</td></tr> <tr><td>02</td><td>...</td><td>Black</td></tr> <tr><td>99</td><td>...</td><td>Unknown or not stated</td></tr> </table> <p><u>Virgin Islands Occurrence</u></p> <table border="0"> <tr><td>01</td><td>...</td><td>White</td></tr> <tr><td>02</td><td>...</td><td>Black</td></tr> <tr><td>03</td><td>...</td><td>American Indian (includes Aleuts and Eskimos)</td></tr> <tr><td>04</td><td>...</td><td>Chinese</td></tr> <tr><td>05</td><td>...</td><td>Japanese</td></tr> <tr><td>06</td><td>...</td><td>Hawaiian (includes part-Hawaiian)</td></tr> <tr><td>07</td><td>...</td><td>Filipino</td></tr> <tr><td>08</td><td>...</td><td>Other Asian or Pacific Islander</td></tr> <tr><td>99</td><td>...</td><td>Unknown or not stated</td></tr> </table>	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	00	...	Other races	01	...	White	02	...	Black	99	...	Unknown or not stated	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
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67	1	<p><u>PLDEL</u> <u>Place or Facility of Delivery</u></p> <table border="1"> <tr><td>1</td><td>...</td><td>Hospital</td></tr> <tr><td>2</td><td>...</td><td>Freestanding Birthing Center</td></tr> <tr><td>3</td><td>...</td><td>Clinic or Doctor's Office</td></tr> <tr><td>4</td><td>...</td><td>A Residence</td></tr> <tr><td>5</td><td>...</td><td>Other</td></tr> <tr><td>9</td><td>...</td><td>Unknown or Not Stated</td></tr> </table>	1	...	Hospital	2	...	Freestanding Birthing Center	3	...	Clinic or Doctor's Office	4	...	A Residence	5	...	Other	9	...	Unknown or Not Stated												
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68	1	<p><u>BIRATTND</u> <u>Attendant at Delivery</u></p> <table border="1"> <tr><td>1</td><td>...</td><td>Doctor of Medicine (M.D.)</td></tr> <tr><td>2</td><td>...</td><td>Doctor of Osteopathy (D.O.)</td></tr> <tr><td>3</td><td>...</td><td>Certified Nurse Midwife (C.N.M.)</td></tr> <tr><td>4</td><td>...</td><td>Other Midwife</td></tr> <tr><td>5</td><td>...</td><td>Other</td></tr> <tr><td>9</td><td>...</td><td>Unknown or not stated</td></tr> </table>	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												
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69	1	<p><u>R2</u> <u>Reserved position</u></p>																														
70	1	<p><u>GESTESTM</u> <u>Clinical Estimate of Gestation Used Flag</u> 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.</p> <table border="1"> <tr><td>Blank</td><td>...</td><td>Clinical Estimate is not used</td></tr> <tr><td>1</td><td>...</td><td>Clinical Estimate is used</td></tr> </table>	Blank	...	Clinical Estimate is not used	1	...	Clinical Estimate is used																								
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71-72	2	<p><u>CLINGEST</u> <u>Clinical Estimate of Gestation</u></p> <p>Clinical estimate is not reported by all areas. See reporting flags.</p> <p>17-47 ... Estimated gestation in weeks 99 ... Unknown or not stated</p>
73	1	<p><u>GESTIMP</u> <u>Gestation Imputation Flag</u></p> <p>Blank ... Gestation is not imputed 1 ... Gestation is imputed</p>
74-75	2	<p><u>GESTAT</u> <u>Gestation - Detail in Weeks</u></p> <p>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.</p> <p>17-47 ... 17th through 47th week of gestation 99 ... Unknown</p>
76-77	2	<p><u>GESTAT 10</u> <u>GESTATION RECODE 10</u></p> <p>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</p>
78	1	<p><u>CSEXIMP</u> <u>Sex Imputation Flag</u></p> <p>Blank ... Sex is not imputed 1 ... Sex is imputed</p>
79	1	<p><u>CSEX</u> <u>Sex</u></p> <p>1 ... Male 2 ... Female</p>

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
80-87	8	<p><u>BIRTHWEIGHT</u></p> <p>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.</p>
80	1	<p><u>BWIF</u> <u>Birth Weight Imputation Flag</u></p> <p>Blank ... Birthweight is not imputed 1 ... Birthweight is imputed</p>
81-84	4	<p><u>DBIRWT</u> <u>Birth Weight Detail in Grams (Imputed)</u></p> <p>0227-8165 ... Number of grams 9999 ... Not stated birth weight</p>
85-86	2	<p><u>BIRWT12</u> <u>Birth Weight Recode 12 (Imputed)</u></p> <p>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</p>
87	1	<p><u>BIRWT4</u> <u>Birth Weight Recode 4 (Imputed)</u></p> <p>1 ... 1499 grams or less 2 ... 1500-2499 grams 3 ... 2500 grams or more 4 ... Unknown or not stated</p>
88	1	<p><u>PLURIMP</u> <u>Plurality Imputation Flag</u></p> <p>Blank ... Plurality is not imputed 1 ... Plurality is imputed</p>

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89	1	<p><u>DPLURAL</u> <u>Plurality</u></p> <table> <tr><td>1</td><td>...</td><td>Single</td></tr> <tr><td>2</td><td>...</td><td>Twin</td></tr> <tr><td>3</td><td>...</td><td>Triplet</td></tr> <tr><td>4</td><td>...</td><td>Quadruplet</td></tr> <tr><td>5</td><td>...</td><td>Quintuplet or higher</td></tr> </table>	1	...	Single	2	...	Twin	3	...	Triplet	4	...	Quadruplet	5	...	Quintuplet or higher
1	...	Single															
2	...	Twin															
3	...	Triplet															
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90-91	2	<p><u>FMAPS</u> <u>Five-Minute Apgar Score</u></p> <p>Apgar score is not reported by all areas. See reporting flags.</p> <table> <tr><td>00-10</td><td>...</td><td>A score of 0-10</td></tr> <tr><td>99</td><td>...</td><td>Unknown or not stated</td></tr> </table>	00-10	...	A score of 0-10	99	...	Unknown or not stated									
00-10	...	A score of 0-10															
99	...	Unknown or not stated															
92-186 95		<p><u>MEDINFO</u> <u>Medical and Health Data</u></p> <p>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.</p>															
92-99	8	<p><u>DELMETH</u> <u>Method of Delivery</u></p> <p>Each method is assigned a separate position, and the code structure for each method (position) is:</p> <table> <tr><td>1</td><td>...</td><td>The method was used</td></tr> <tr><td>2</td><td>...</td><td>The method was not used</td></tr> <tr><td>8</td><td>...</td><td>Method not on certificate</td></tr> <tr><td>9</td><td>...</td><td>Method unknown or not stated</td></tr> </table>	1	...	The method was used	2	...	The method was not used	8	...	Method not on certificate	9	...	Method unknown or not stated			
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92	1	<p><u>VAGINAL</u> <u>Vaginal</u></p>															
93	1	<p><u>VBAC</u> <u>Vaginal Birth After Previous C-Section</u></p>															
94	1	<p><u>PRIMAC</u> <u>Primary C-Section</u></p>															
95	1	<p><u>REPEAC</u> <u>Repeat C-Section</u></p>															
96	1	<p><u>FORCEP</u> <u>Forceps</u></p>															

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97	1	<u>VACUUM</u> <u>Vacuum</u>
98	1	<u>R3</u> <u>Reserved Position</u>
99	1	<u>DELMETH5</u> <u>Method of Delivery Recode</u>
		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	<u>MEDRISK</u> <u>Medical Risk Factors</u>
		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	<u>MRFLAG</u> <u>No Medical Risk Factors Reported Flag</u>
		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	<u>ANEMIA</u> <u>Anemia (Hct.<30/Hgb.<10)</u>
102	1	<u>CARDIAC</u> <u>Cardiac disease</u>
103	1	<u>LUNG</u> <u>Acute or chronic lung disease</u>
104	1	<u>DIABETES</u> <u>Diabetes</u>
105	1	<u>HERPES</u> <u>Genital herpes</u>
106	1	<u>HYDRA</u> <u>Hydramnios/Oligohydramnios</u>

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

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121	1	<p><u>CIGAR6</u> <u>Average Number of Cigarettes Per Day Recode</u></p> <p>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</p>
122-125	4	<p><u>ALCOHRSK</u> <u>Alcohol</u></p>
122	1	<p><u>ALCOHOL</u> <u>Alcohol Use During Pregnancy</u></p> <p>1 ... Yes 2 ... No 9 ... Unknown or not stated</p>
123-124	2	<p><u>DRINK</u> <u>Average Number of Drinks Per Week</u></p> <p>00-97 ... As stated 98 ... 98 or more drinks per week 99 ... Unknown or not stated</p>
125	1	<p><u>DRINK5</u> <u>Average Number of Drinks Per Week Recode</u></p> <p>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</p>
126-128	3	<p><u>WTGANRSK</u> <u>Weight Gain During Pregnancy</u></p>
126-127	2	<p><u>WTGAIN</u> <u>Weight Gain</u></p> <p>00-97 ... Stated number of pounds 98 ... 98 pounds or more 99 ... Unknown or not stated</p>

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128	1	<p><u>WTGAIN9</u> <u>Weight Gain Recode</u></p> <table border="0"> <tr><td>1</td><td>...</td><td>Less than 16 pounds</td></tr> <tr><td>2</td><td>...</td><td>16-20 pounds</td></tr> <tr><td>3</td><td>...</td><td>21-25 pounds</td></tr> <tr><td>4</td><td>...</td><td>26-30 pounds</td></tr> <tr><td>5</td><td>...</td><td>31-35 pounds</td></tr> <tr><td>6</td><td>...</td><td>36-40 pounds</td></tr> <tr><td>7</td><td>...</td><td>41-45 pounds</td></tr> <tr><td>8</td><td>...</td><td>46 or more pounds</td></tr> <tr><td>9</td><td>...</td><td>Unknown or not stated</td></tr> </table>	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
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129-136	8	<p><u>OBSTETRC</u> <u>Obstetric Procedures</u></p> <p>Each procedure is assigned a separate position, and the code structure for each procedure (position) is:</p> <table border="0"> <tr><td>1</td><td>...</td><td>Procedure reported</td></tr> <tr><td>2</td><td>...</td><td>Procedure not reported</td></tr> <tr><td>8</td><td>...</td><td>Procedure not on certificate</td></tr> <tr><td>9</td><td>...</td><td>Procedure not classifiable</td></tr> </table>	1	...	Procedure reported	2	...	Procedure not reported	8	...	Procedure not on certificate	9	...	Procedure not classifiable															
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129	1	<p><u>OBFLAG</u> <u>Obstetric Flag</u></p> <table border="0"> <tr><td>Blank</td><td>...</td><td>One or more obstetric procedures coded, one, eight, or nine</td></tr> <tr><td>2</td><td>...</td><td>No obstetric procedures reported. Each factor is coded a two.</td></tr> </table>	Blank	...	One or more obstetric procedures coded, one, eight, or nine	2	...	No obstetric procedures reported. Each factor is coded a two.																					
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130	1	<p><u>AMNIO</u> <u>Amniocentesis</u></p>																											
131	1	<p><u>MONITOR</u> <u>Electronic fetal monitoring</u></p>																											
132	1	<p><u>INDUCT</u> <u>Induction of labor</u></p>																											
133	1	<p><u>STIMULA</u> <u>Stimulation of labor</u></p>																											
134	1	<p><u>TOCOL</u> <u>Tocolysis</u></p>																											
135	1	<p><u>ULTRAS</u> <u>Ultrasound</u></p>																											
136	1	<p><u>OTHEROB</u> <u>Other Obstetric Procedures</u></p>																											

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>												
137-153	17	<p><u>LABOR</u> <u>Complications of Labor and/or Delivery</u></p> <p>Each complication is assigned a separate position, and the code structure for each complication (position) is:</p> <table border="0"> <tr> <td>1</td> <td>...</td> <td>Complication reported</td> </tr> <tr> <td>2</td> <td>...</td> <td>Complication not reported</td> </tr> <tr> <td>8</td> <td>...</td> <td>Complication not on certificate</td> </tr> <tr> <td>9</td> <td>...</td> <td>Complication not classifiable</td> </tr> </table>	1	...	Complication reported	2	...	Complication not reported	8	...	Complication not on certificate	9	...	Complication not classifiable
1	...	Complication reported												
2	...	Complication not reported												
8	...	Complication not on certificate												
9	...	Complication not classifiable												
137	1	<p><u>FBFLAG</u> <u>Labor Flag</u></p> <table border="0"> <tr> <td>Blank</td> <td>...</td> <td>One or more labor and/or delivery complications coded, one, eight, or nine</td> </tr> <tr> <td>2</td> <td>...</td> <td>No labor and/or delivery complication reported. Each factor is coded a two.</td> </tr> </table>	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.						
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	<p><u>FEBRILE</u> <u>Febrile (>100 degrees F. or 38 degrees C.)</u></p>												
139	1	<p><u>MECONIUM</u> <u>Meconium, moderate/heavy</u></p>												
140	1	<p><u>RUPTURE</u> <u>Premature rupture of membrane (>12 hours)</u></p>												
141	1	<p><u>ABRUPTIO</u> <u>Abruptio placenta</u></p>												
142	1	<p><u>PREPLACE</u> <u>Placenta previa</u></p>												
143	1	<p><u>EXCEBLD</u> <u>Other excessive bleeding</u></p>												
144	1	<p><u>SEIZURE</u> <u>Seizures during labor</u></p>												
145	1	<p><u>PRECIP</u> <u>Precipitous labor (<3 hours)</u></p>												
146	1	<p><u>PROLONG</u> <u>Prolonged labor (>20 hours)</u></p>												
147	1	<p><u>DYSFUNC</u> <u>Dysfunctional labor</u></p>												
148	1	<p><u>BREECH</u> <u>Breech/Malpresentation</u></p>												

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>												
149	1	<u>CEPHALO</u> <u>Cephalopelvic disproportion</u>												
150	1	<u>CORD</u> <u>Cord prolapse</u>												
151	1	<u>ANESTHE</u> <u>Anesthetic complications</u>												
152	1	<u>DISTRESS</u> <u>Fetal distress</u>												
153	1	<u>OTHERLB</u> <u>Other Complications of Labor and/or Delivery</u>												
154-163	10	<u>NEWBORN</u> <u>Abnormal conditions of the Newborn</u> Each condition is assigned a separate position, and the code structure for each condition (position) is: <table border="0"> <tr> <td>1</td> <td>...</td> <td>Condition reported</td> </tr> <tr> <td>2</td> <td>...</td> <td>Condition not reported</td> </tr> <tr> <td>8</td> <td>...</td> <td>Condition not on certificate</td> </tr> <tr> <td>9</td> <td>...</td> <td>Condition not classifiable</td> </tr> </table>	1	...	Condition reported	2	...	Condition not reported	8	...	Condition not on certificate	9	...	Condition not classifiable
1	...	Condition reported												
2	...	Condition not reported												
8	...	Condition not on certificate												
9	...	Condition not classifiable												
154	1	<u>NBFLAG</u> <u>Newborn Flag</u> <table border="0"> <tr> <td>Blank</td> <td>...</td> <td>One or more abnormal conditions of the newborn coded, one, eight, or nine</td> </tr> <tr> <td>2</td> <td>...</td> <td>No abnormal condition of the newborn reported. Each factor is coded a two.</td> </tr> </table>	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.						
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	<u>NANEMIA</u> <u>Anemia Hct.>39/Hgb.<13)</u>												
156	1	<u>INJURY</u> <u>Birth injury</u>												
157	1	<u>ALCOSYN</u> <u>Fetal alcohol syndrome</u>												
158	1	<u>HYALINE</u> <u>Hyaline membrane disease</u>												
159	1	<u>MECONSYN</u> <u>Meconium aspiration syndrome</u>												
160	1	<u>VENL30</u> <u>Assisted ventilation, less than 30 minutes</u>												

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>												
161	1	<u>VEN30M</u> <u>Assisted ventilation, 30 minutes or more</u>												
162	1	<u>NSEIZ</u> <u>Seizures</u>												
163	1	<u>OTHERAB</u> <u>Other Abnormal Conditions of the Newborn</u>												
164-186	23	<u>CONGENIT</u> <u>Congenital Anomalies</u> Each anomaly is assigned a separate position, and the code structure for each anomaly (position) is: <table border="0"> <tr> <td>1</td> <td>...</td> <td>Anomaly reported</td> </tr> <tr> <td>2</td> <td>...</td> <td>Anomaly not reported</td> </tr> <tr> <td>8</td> <td>...</td> <td>Anomaly not on certificate</td> </tr> <tr> <td>9</td> <td>...</td> <td>Anomaly not classifiable</td> </tr> </table>	1	...	Anomaly reported	2	...	Anomaly not reported	8	...	Anomaly not on certificate	9	...	Anomaly not classifiable
1	...	Anomaly reported												
2	...	Anomaly not reported												
8	...	Anomaly not on certificate												
9	...	Anomaly not classifiable												
164	1	<u>CGFLAG</u> <u>Congenital Flag</u> <table border="0"> <tr> <td>Blank</td> <td>...</td> <td>One or more congenital anomalies coded, one, eight, or nine</td> </tr> <tr> <td>2</td> <td>...</td> <td>No congenital anomaly is reported. Each factor is coded a two.</td> </tr> </table>	Blank	...	One or more congenital anomalies coded, one, eight, or nine	2	...	No congenital anomaly is reported. Each factor is coded a two.						
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	<u>ANEN</u> <u>Anencephalus</u>												
166	1	<u>SPINA</u> <u>Spina bifida/Meningocele</u>												
167	1	<u>HYDRO</u> <u>Hydrocephalus</u>												
168	1	<u>MICROCE</u> <u>Microcephalus</u>												
169	1	<u>NERVOUS</u> <u>Other central nervous system anomalies</u>												
170	1	<u>HEART</u> <u>Heart malformations</u>												
171	1	<u>CIRCUL</u> <u>Other circulatory/respiratory anomalies</u>												
172	1	<u>RECTAL</u> <u>Rectal atresia/stenosis</u>												

Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
173	1	<u>TRACHEO</u> <u>Tracheo-esophageal fistula/Esophageal atresia</u>
174	1	<u>OMPHALO</u> <u>Omphalocele/Gastroschisis</u>
175	1	<u>GASTRO</u> <u>Other gastrointestinal anomalies</u>
176	1	<u>GENITAL</u> <u>Malformed genitalia</u>
177	1	<u>RENALAGE</u> <u>Renal agenesis</u>
178	1	<u>UROGEN</u> <u>Other urogenital anomalies</u>
179	1	<u>CLEFTLP</u> <u>Cleft lip/palate</u>
180	1	<u>ADACTYLY</u> <u>Polydactyly/Syndactyly/Adactyly</u>
181	1	<u>CLUBFOOT</u> <u>Club foot</u>
182	1	<u>HERNIA</u> <u>Diaphragmatic hernia</u>
183	1	<u>MUSCULO</u> <u>Other musculoskeletal/integumental anomalies</u>
184	1	<u>DOWNS</u> <u>Down's syndrome</u>
185	1	<u>CHROMO</u> <u>Other chromosomal anomalies</u>
186	1	<u>OTHERCON</u> <u>Other congenital anomalies</u>
187-203	17	<u>FLRES</u> <u>Reporting Flags for Place of Residence</u>

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.

Denominator Record and Natality Section of Numerator (Linked) Record

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

Denominator Record and Natality Section of Numerator (Linked) Record

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

Denominator Record and Mortality Section of Numerator (Linked) Record

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.

<u>Item</u>	<u>Item</u>	<u>Variable Name,</u>
<u>Location</u>	<u>Length</u>	<u>Item and Code Outline</u>
211-213	3	<p><u>AGED</u> <u>Age at Death in Days</u></p> <p>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.</p> <p>000-364 ... Number of days</p>
214	1	<p><u>AGER5</u> <u>Infant Age Recode 5</u></p> <p>1 ... Under 1 hour 2 ... 1-23 hours 3 ... 1-6 days 4 ... 7-27 days (late neonatal) 5 ... 28 days and over (postneonatal)</p>
215	1	<p><u>ACCIDPL</u> <u>Place of Accident for Causes E850-E869 and E880-E928</u></p> <p>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</p>
216-219	4	<p><u>UCOD</u> <u>ICD Code (9th Revision)</u></p> <p>See the <u>International Classification of Diseases, 1975 Revision, Volume 1</u>. 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.</p>

Denominator Record and Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
220-222	3	<p><u>UCODR61</u> <u>61 Infant Cause Recode</u></p> <p>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.</p> <p>010-680 ... Code range (not inclusive)</p>
223-230	8	<p><u>RECWT</u> <u>Record weight</u></p> <p>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 <u>Introduction</u> 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:</p> <p>1.XXXXXX</p>

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

Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
261-504	244	<p><u>MULTCOND</u> <u>Multiple Conditions</u></p> <p>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).</p>
261-262	2	<p><u>EANUM</u> <u>Number of Entity-Axis Conditions</u></p> <p>00-20 ... Code range</p>
263-402	140	<p><u>ENTITY</u> <u>ENTITY - AXIS CONDITIONS</u></p> <p>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.</p> <p>Position 1: Part/line number on certificate</p> <p>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,</p> <p>Position 2: Sequence of condition within part/line</p> <p>1-7 ... Code range</p> <p>Position 3 - 6: Condition code (ICD 9th Revision)</p> <p>Position 7: Nature of Injury Flag</p> <p>1 ... Indicates that the code in positions 3-6 is a Nature of Injury code 0 ... All other codes</p>
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

1998
Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
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	<u>RANUM</u> <u>Number of Record-Axis Conditions</u>
		00-20 ... Code range
405-504	100	<u>RECORD</u> <u>RECORD - AXIS CONDITIONS</u>

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

Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
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	<p><u>RESSTATD</u> <u>Resident Status - Death</u> <u>United States Occurrence</u></p> <p>1 ... RESIDENTS: State and county of occurrence and residence are the same.</p> <p>2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different.</p> <p>3 ... INTERSTATE NONRESIDENTS: State of occurrence and residence are different, but both are in the 50 States and D.C.</p> <p>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.</p>

1998
Mortality Section of Numerator (Linked) Record

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

1998
Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>	
506-507	2	<u>DRSTATE</u> <u>Expanded State of Residence - NCHS Codes - Deaths (Cond't)</u>	
		<u>United States Occurrence</u>	
	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
			<u>Puerto Rico Occurrence</u>
	53	...	Puerto Rico
	01-52,54-58,60	...	Foreign Residents: Refer to U.S. for specific code structure.

Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
506-507	2	<p><u>DRSTATE</u> <u>Expanded State of Residence - NCHS Codes - Deaths (Cond't)</u></p> <p><u>Virgin Islands Occurrence</u> 54 ... Virgin Islands 01-53,55-58,60 ... Foreign Residents: Refer to U.S. for specific code structure.</p> <p><u>Guam Occurrence</u> 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.</p>
508-512	5	<p><u>FIPSOCCD</u> <u>Federal Information Processing Standards (FIPS) Geographic Codes (Occurrence) - Death</u></p> <p>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.</p>
508-509	2	<p><u>STOCCFIPD</u> <u>State of Occurrence (FIPS) - Death</u></p> <p><u>United States</u> 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</p>

Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
508-509	2	<p><u>STOCCFIPD</u> <u>State of Occurrence (FIPS) - Death (Cond't)</u></p> <p><u>United States</u></p> <p>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</p> <p><u>Puerto Rico</u></p> <p>72 ... Puerto Rico</p> <p><u>Virgin Islands</u></p> <p>78 ... Virgin Islands</p> <p><u>Guam</u></p> <p>66 ... Guam</p>
510-512	3	<p><u>CNTOCFIPD</u> <u>County of Occurrence (FIPS) - Death</u></p> <p>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.)</p> <p>999 ... County with less than 250,000 population</p>

Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
513-517	5	<p><u>FIPSRES</u> <u>Federal Information Processing Standards (FIPS) Geographic Codes (Residence) - Death</u></p> <p>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.</p>

513-514	2	<p><u>STRESFIPD</u> <u>State of Residence (FIPS) - Death</u></p>
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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 |

1998
Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>																																																												
513-514	2	<p><u>STRESFIPD</u> <u>State of Residence (FIPS) - Death (Cond't)</u></p> <p><u>United States Occurrence</u></p> <table border="0"> <tr><td>41</td><td>...</td><td>Oregon</td></tr> <tr><td>42</td><td>...</td><td>Pennsylvania</td></tr> <tr><td>44</td><td>...</td><td>Rhode Island</td></tr> <tr><td>45</td><td>...</td><td>South Carolina</td></tr> <tr><td>46</td><td>...</td><td>South Dakota</td></tr> <tr><td>47</td><td>...</td><td>Tennessee</td></tr> <tr><td>48</td><td>...</td><td>Texas</td></tr> <tr><td>49</td><td>...</td><td>Utah</td></tr> <tr><td>50</td><td>...</td><td>Vermont</td></tr> <tr><td>51</td><td>...</td><td>Virginia</td></tr> <tr><td>53</td><td>...</td><td>Washington</td></tr> <tr><td>54</td><td>...</td><td>West Virginia</td></tr> <tr><td>55</td><td>...</td><td>Wisconsin</td></tr> <tr><td>56</td><td>...</td><td>Wyoming</td></tr> </table> <p><u>Puerto Rico Occurrence</u></p> <table border="0"> <tr><td>72</td><td>...</td><td>Puerto Rico</td></tr> <tr><td>00-56, 66,78</td><td>...</td><td>Foreign resident: Refer to U.S. for specific code structure.</td></tr> </table> <p><u>Virgin Islands Occurrence</u></p> <table border="0"> <tr><td>78</td><td>...</td><td>Virgin Islands</td></tr> <tr><td>00-56, 66,72</td><td>...</td><td>Foreign resident: Refer to U.S. for specific code structure.</td></tr> </table> <p><u>Guam Occurrence</u></p> <table border="0"> <tr><td>66</td><td>...</td><td>Guam</td></tr> <tr><td>01-56, 00,72,78</td><td>...</td><td>Foreign resident: Refer to U.S. for specific code structure.</td></tr> </table>	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	72	...	Puerto Rico	00-56, 66,78	...	Foreign resident: Refer to U.S. for specific code structure.	78	...	Virgin Islands	00-56, 66,72	...	Foreign resident: Refer to U.S. for specific code structure.	66	...	Guam	01-56, 00,72,78	...	Foreign resident: Refer to U.S. for specific code structure.
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515-517	3	<p><u>CNTYRFPD</u> <u>County of Residence (FIPS) - Death</u></p> <table border="0"> <tr><td>000</td><td>...</td><td>Foreign residents</td></tr> <tr><td>001-nnn</td><td>...</td><td>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.</td></tr> <tr><td>999</td><td>...</td><td>County with less than 250,000 population</td></tr> </table>	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																																																			
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Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
518-522	5	<p><u>PLRES</u> <u>Place (City) of Residence (FIPS)</u></p> <p>A complete list of cities is shown in the Geographic code outline further back in this document.</p> <p>00000 ... Foreign residents 00001-nnnnn ... Code range 99999 ... Balance of county; or city less than 250,000 population</p>
523	1	<p><u>HOSPD</u> <u>Hospital and Patient Status</u></p> <p>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</p>
524-527	4	<p><u>DTHYR</u> <u>Year of Death</u></p> <p>1998 ... Death occurred in 1998 1999 ... Death occurred in 1999</p>
528-529	2	<p><u>DTHMON</u> <u>Month of Death</u></p> <p>01 ... January 02 ... February 03 ... March 04 ... April 05 ... May 06 ... June 07 ... July 08 ... August 09 ... September 10 ... October 11 ... November 12 ... December</p>
530-531	2	<p><u>R8</u> <u>Reserved Position</u></p>

Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>																								
532	1	<p><u>WEEKDAYD</u> <u>Day of Week of Death</u></p> <table border="0"> <tr><td>1</td><td>...</td><td>Sunday</td></tr> <tr><td>2</td><td>...</td><td>Monday</td></tr> <tr><td>3</td><td>...</td><td>Tuesday</td></tr> <tr><td>4</td><td>...</td><td>Wednesday</td></tr> <tr><td>5</td><td>...</td><td>Thursday</td></tr> <tr><td>6</td><td>...</td><td>Friday</td></tr> <tr><td>7</td><td>...</td><td>Saturday</td></tr> <tr><td>9</td><td>...</td><td>Unknown</td></tr> </table>	1	...	Sunday	2	...	Monday	3	...	Tuesday	4	...	Wednesday	5	...	Thursday	6	...	Friday	7	...	Saturday	9	...	Unknown
1	...	Sunday																								
2	...	Monday																								
3	...	Tuesday																								
4	...	Wednesday																								
5	...	Thursday																								
6	...	Friday																								
7	...	Saturday																								
9	...	Unknown																								
533-535	3	<p><u>R9</u> <u>Reserved positions</u></p>																								

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 - 1998 LINK BIRTH COHORT DATA

(RESIDENCE OF BIRTH IS OF THE MOTHER)

STATE	LIVE BIRTHS		INFANT DEATHS			
	Occurrence	Residence	UNWEIGHTED		WEIGHTED 1/	
			Occurrence	Residence	Occurrence	Residence
UNITED STATES 2/	3,945,192	3,941,553	27,743	27,720	28,221	28,198
ALABAMA.....	61,209	62,074	617	615	619	616
ALASKA.....	9,832	9,926	63	66	63	67
ARIZONA.....	78,076	78,243	566	558	573	569
ARKANSAS.....	35,763	36,865	302	326	310	335
CALIFORNIA.....	522,290	521,661	2,905	2,901	3,024	3,012
COLORADO.....	59,816	59,577	422	408	423	409
CONNECTICUT.....	43,669	43,820	299	295	301	298
DELAWARE.....	11,023	10,578	104	98	104	98
DISTRICT OF COLUMBIA	15,138	7,686	181	91	183	92
FLORIDA.....	195,734	195,637	1,429	1,426	1,432	1,428
GEORGIA.....	123,262	122,368	1,027	1,028	1,028	1,028
HAWAII.....	17,619	17,583	119	117	119	117
IDAHO.....	18,959	19,391	118	131	123	134
ILLINOIS.....	179,462	182,588	1,455	1,514	1,472	1,536
INDIANA.....	85,176	85,122	640	649	651	660
IOWA.....	37,433	37,282	219	237	219	237
KANSAS.....	37,450	38,422	254	271	254	274
KENTUCKY.....	52,880	54,329	353	391	362	399
LOUISIANA.....	67,100	66,888	604	604	617	616
MAINE.....	13,530	13,733	77	82	79	84
MARYLAND.....	67,408	71,972	532	613	538	620
MASSACHUSETTS.....	82,216	81,411	410	413	419	422
MICHIGAN.....	132,443	133,666	1,066	1,071	1,079	1,084
MINNESOTA.....	65,094	65,202	394	388	394	388
MISSISSIPPI.....	41,942	42,939	397	420	400	422
MISSOURI.....	77,701	75,358	624	558	638	566
MONTANA.....	10,742	10,795	74	73	77	75
NEBRASKA.....	23,915	23,534	199	182	199	182
NEVADA.....	28,218	28,699	183	187	189	195
NEW HAMPSHIRE.....	13,933	14,429	65	67	65	67
NEW JERSEY.....	111,709	114,550	676	714	688	728
NEW MEXICO.....	26,960	27,318	175	186	185	196
NEW YORK STATE.....	135,408	138,296	783	792	806	808
NEW YORK CITY.....	124,240	119,911	794	775	803	793
NORTH CAROLINA.....	112,785	111,688	1,035	1,022	1,038	1,025
NORTH DAKOTA.....	9,156	7,932	82	70	82	70
OHIO.....	153,400	152,794	1,172	1,148	1,221	1,207
OKLAHOMA.....	48,449	49,461	401	401	433	432
OREGON.....	46,278	45,273	254	235	256	236
PENNSYLVANIA.....	146,465	145,899	1,041	1,012	1,060	1,027
RHODE ISLAND.....	13,489	12,599	101	87	102	87
SOUTH CAROLINA.....	51,701	53,877	496	525	496	525
SOUTH DAKOTA.....	10,391	10,288	93	95	93	95
TENNESSEE.....	82,412	77,396	722	632	723	632
TEXAS.....	346,101	342,283	2,118	2,093	2,164	2,139
UTAH.....	46,128	45,165	263	244	264	245
VERMONT.....	6,257	6,582	49	53	49	53

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 - 1998 LINK BIRTH COHORT DATA

(RESIDENCE OF BIRTH IS OF THE MOTHER)

STATE	LIVE BIRTHS		INFANT DEATHS			
	Occurrence	Residence	UNWEIGHTED		WEIGHTED 1/	
			Occurrence	Residence	Occurrence	Residence
VIRGINIA.....	92,021	94,351	674	694	681	701
WASHINGTON.....	78,980	79,663	441	458	444	462
WEST VIRGINIA.....	21,574	20,747	164	154	168	157
WISCONSIN.....	66,421	67,450	487	503	487	503
WYOMING.....	5,834	6,252	24	47	24	47
FOREIGN RESIDENTS...	-	3,637	-	23	-	23
PUERTO RICO 3/.....	60,518	60,412	640	638	-	-
VIRGIN ISLANDS 3/...	1,915	1,800	17	17	-	-
GUAM 3/.....	4,328	4,318	35	35	-	-

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 BIRTHWEIGHT OF CHILD:
UNITED STATES, 1998 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.....	3,941,553	6,349	11,041	11,716	13,238	15,389	59,014	182,462	3,640,324	2,020
INFANT DEATHS...	28,197	5,480	5,336	1,865	936	756	1,705	2,274	9,472	374
INF.MORT.RATE...	7.2	863.1	483.3	159.2	70.7	49.1	28.9	12.5	2.6	185.0
MALE										
LIVE BIRTHS.....	2,016,205	3,175	5,528	6,129	6,828	7,745	28,797	83,593	1,873,365	1,045
INFANT DEATHS...	15,713	2,765	3,047	1,187	550	419	875	1,194	5,446	232
INF.MORT.RATE...	7.8	870.7	551.1	193.7	80.5	54.1	30.4	14.3	2.9	221.6
FEMALE										
LIVE BIRTHS.....	1,925,348	3,174	5,513	5,587	6,410	7,644	30,217	98,869	1,766,959	975
INFANT DEATHS...	12,484	2,716	2,290	678	386	336	830	1,080	4,026	142
INF.MORT.RATE...	6.5	855.6	415.3	121.4	60.3	44.0	27.5	10.9	2.3	145.9
WHITE										
BOTH SEXES										
LIVE BIRTHS.....	3,118,727	3,502	6,510	7,360	8,670	10,252	40,802	126,790	2,913,643	1,198
INFANT DEATHS...	18,460	3,049	3,231	1,222	613	507	1,171	1,593	6,865	208
INF.MORT.RATE...	5.9	870.6	496.4	166.0	70.8	49.5	28.7	12.6	2.4	173.8
MALE										
LIVE BIRTHS.....	1,596,704	1,723	3,280	3,891	4,555	5,262	20,136	58,313	1,498,930	614
INFANT DEATHS...	10,300	1,506	1,845	772	362	283	598	819	3,988	127
INF.MORT.RATE...	6.5	874.0	562.4	198.4	79.5	53.8	29.7	14.0	2.7	207.6
FEMALE										
LIVE BIRTHS.....	1,522,023	1,779	3,230	3,469	4,115	4,990	20,666	68,477	1,414,713	584
INFANT DEATHS...	8,160	1,543	1,387	450	251	224	573	773	2,878	81
INF.MORT.RATE...	5.4	867.3	429.3	129.8	61.1	45.0	27.7	11.3	2.0	138.2
BLACK										
BOTH SEXES										
LIVE BIRTHS.....	609,902	2,583	4,127	3,861	4,017	4,432	15,383	45,369	529,816	314
INFANT DEATHS...	8,392	2,206	1,903	555	283	215	439	566	2,099	129
INF.MORT.RATE...	13.8	854.1	461.0	143.6	70.3	48.4	28.5	12.5	4.0	410.7
MALE										
LIVE BIRTHS.....	310,107	1,319	2,038	1,972	1,981	2,113	7,179	20,454	272,885	166
INFANT DEATHS...	4,667	1,147	1,078	359	162	117	229	316	1,177	83
INF.MORT.RATE...	15.1	869.6	528.7	182.2	81.7	55.4	31.9	15.5	4.3	497.2
FEMALE										
LIVE BIRTHS.....	299,795	1,264	2,089	1,889	2,036	2,319	8,204	24,915	256,931	148
INFANT DEATHS...	3,725	1,059	825	195	121	98	210	249	922	46
INF.MORT.RATE...	12.4	837.9	394.9	103.4	59.3	42.0	25.6	10.0	3.6	313.6

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1998 BIRTH COHORT DATA

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

BIRTHWEIGHT	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.....	3,941,553	29,037	47,486	212,210	163,542	1,859,198	853,416	443,502	292,766	40,396
INFANT DEATHS.....	28,197	11,836	2,207	2,533	1,063	5,628	1,914	1,162	921	932
INF. MORT. RATE....	7.2	407.6	46.5	11.9	6.5	3.0	2.2	2.6	3.1	23.1
LESS THAN 2,500 GRAMS										
LIVE BIRTHS.....	299,209	27,959	35,733	99,134	33,588	75,882	11,455	5,354	6,393	3,711
INFANT DEATHS.....	18,352	11,815	2,120	1,882	525	1,110	207	146	141	406
INF. MORT. RATE....	61.3	422.6	59.3	19.0	15.6	14.6	18.1	27.2	22.1	109.5
LESS THAN 500 GRAMS										
LIVE BIRTHS.....	6,349	5,921	218	12	3	13	3	-	-	179
INFANT DEATHS.....	5,480	5,197	139	11	2	7	1	-	-	123
INF. MORT. RATE....	863.1	877.7	636.9	936.5	675.3	552.1	333.3	-	-	685.2
500-749 GRAMS										
LIVE BIRTHS.....	11,041	9,333	1,307	126	19	13	-	2	6	235
INFANT DEATHS.....	5,336	4,784	372	41	11	2	-	-	4	122
INF. MORT. RATE....	483.3	512.6	284.8	323.7	585.6	158.1	-	-	669.9	520.3
750-999 GRAMS										
LIVE BIRTHS.....	11,716	7,042	3,751	501	42	113	48	19	17	183
INFANT DEATHS.....	1,865	1,351	388	61	6	8	6	3	3	39
INF. MORT. RATE....	159.2	191.8	103.4	122.0	146.5	72.5	127.2	158.5	182.0	214.1
1,000-1,249 GRAMS										
LIVE BIRTHS.....	13,238	3,135	7,070	2,131	153	326	98	48	82	195
INFANT DEATHS.....	936	295	424	131	19	27	6	2	6	26
INF. MORT. RATE....	70.7	94.1	59.9	61.5	126.4	81.9	63.5	42.4	74.5	132.4
1,250-1,499 GRAMS										
LIVE BIRTHS.....	15,389	861	8,051	4,797	408	662	146	77	142	245
INFANT DEATHS.....	756	84	317	230	32	53	5	6	11	19
INF. MORT. RATE....	49.1	97.3	39.3	47.9	77.5	79.9	35.0	78.9	78.6	76.3
1,500-1,999 GRAMS										
LIVE BIRTHS.....	59,014	988	11,224	31,506	5,035	7,191	989	548	806	727
INFANT DEATHS.....	1,705	77	357	698	128	296	47	35	31	36
INF. MORT. RATE....	28.9	78.4	31.8	22.2	25.4	41.1	47.4	63.0	38.0	49.8

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1998 BIRTH COHORT DATA

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

BIRTHWEIGHT	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/										
-										
2,000-2,499 GRAMS										
LIVE BIRTHS.....	182,462	679	4,112	60,061	27,928	67,564	10,171	4,660	5,340	1,947
INFANT DEATHS.....	2,274	27	123	710	326	717	142	100	86	41
INF. MORT. RATE....	12.5	39.1	30.0	11.8	11.7	10.6	14.0	21.4	16.2	21.3
2,500-2,999 GRAMS										
LIVE BIRTHS.....	650,006	1,078	4,251	53,704	59,439	362,599	88,982	38,929	34,772	6,252
INFANT DEATHS.....	3,090	21	41	375	299	1,564	361	207	178	44
INF. MORT. RATE....	4.8	19.9	9.6	7.0	5.0	4.3	4.1	5.3	5.1	7.1
3,000-3,499 GRAMS										
LIVE BIRTHS.....	1,458,017	-	4,955	37,738	47,946	772,992	321,158	152,255	106,987	13,986
INFANT DEATHS.....	3,684	-	34	193	168	1,832	676	389	340	53
INF. MORT. RATE....	2.5	-	6.8	5.1	3.5	2.4	2.1	2.6	3.2	3.8
3,500-3,999 GRAMS										
LIVE BIRTHS.....	1,136,056	-	2,547	17,152	17,886	501,416	314,195	170,344	101,961	10,555
INFANT DEATHS.....	1,993	-	12	57	57	862	479	295	196	35
INF. MORT. RATE....	1.8	-	4.8	3.3	3.2	1.7	1.5	1.7	1.9	3.3
4,000-4,499 GRAMS										
LIVE BIRTHS.....	335,215	-	-	3,796	3,902	125,268	100,003	63,771	35,268	3,207
INFANT DEATHS.....	561	-	-	21	8	211	154	102	53	11
INF. MORT. RATE....	1.7	-	-	5.6	2.1	1.7	1.5	1.6	1.5	3.5
4,500-4,999 GRAMS										
LIVE BIRTHS.....	54,827	-	-	586	679	18,689	16,010	11,661	6,637	565
INFANT DEATHS.....	114	-	-	1	6	37	32	21	10	6
INF. MORT. RATE....	2.1	-	-	1.8	8.9	2.0	2.0	1.8	1.5	11.0
5,000 GRAMS OR MORE										
LIVE BIRTHS.....	6,203	-	-	100	102	2,352	1,613	1,188	748	100
INFANT DEATHS.....	29	-	-	4	-	13	5	2	2	3
INF. MORT. RATE....	4.8	-	-	40.6	-	5.6	3.1	1.7	2.7	31.1
NOT STATED										
LIVE BIRTHS.....	2,020	-	-	-	-	-	-	-	-	2,020
INFANT DEATHS.....	374	-	-	-	-	-	-	-	-	374
INF. MORT. RATE....	185.0	-	-	-	-	-	-	-	-	185.0

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1998 BIRTH COHORT DATA

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

BIRTHWEIGHT	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.....	3,118,727	17,020	31,415	152,717	123,132	1,470,983	693,703	364,840	234,996	29,921
INFANT DEATHS.....	18,460	6,960	1,410	1,781	727	4,054	1,411	863	675	578
INF. MORT. RATE....	5.9	408.9	44.9	11.7	5.9	2.8	2.0	2.4	2.9	19.3
LESS THAN 2,500 GRAMS										
LIVE BIRTHS.....	203,886	16,409	23,760	70,440	23,561	51,698	7,697	3,541	4,325	2,455
INFANT DEATHS.....	11,387	6,946	1,357	1,308	348	796	151	108	104	268
INF. MORT. RATE....	55.8	423.3	57.1	18.6	14.8	15.4	19.6	30.5	24.0	109.3
LESS THAN 500 GRAMS										
LIVE BIRTHS.....	3,502	3,249	129	7	2	7	2	-	-	106
INFANT DEATHS.....	3,049	2,879	80	6	1	7	-	-	-	75
INF. MORT. RATE....	870.6	886.1	622.1	884.3	500.0	1025.3	-	-	-	708.5
500-749 GRAMS										
LIVE BIRTHS.....	6,510	5,414	821	90	7	10	-	2	6	160
INFANT DEATHS.....	3,231	2,890	215	33	5	1	-	-	4	84
INF. MORT. RATE....	496.4	533.8	261.3	362.4	727.8	105.6	-	-	669.9	526.5
750-999 GRAMS										
LIVE BIRTHS.....	7,360	4,362	2,373	337	27	81	34	15	13	118
INFANT DEATHS.....	1,222	880	249	48	4	5	5	3	2	26
INF. MORT. RATE....	166.0	201.7	105.1	142.3	151.7	63.2	149.6	200.7	156.9	218.4
1,000-1,249 GRAMS										
LIVE BIRTHS.....	8,670	1,934	4,680	1,438	108	227	60	32	53	138
INFANT DEATHS.....	613	189	272	90	15	21	5	2	3	17
INF. MORT. RATE....	70.8	97.6	58.2	62.4	141.3	90.8	87.1	63.5	57.5	120.3
1,250-1,499 GRAMS										
LIVE BIRTHS.....	10,252	493	5,381	3,269	280	436	91	56	87	159
INFANT DEATHS.....	507	46	201	169	24	39	3	4	6	16
INF. MORT. RATE....	49.5	93.7	37.4	51.6	84.0	88.7	33.6	72.8	70.3	98.2
1,500-1,999 GRAMS										
LIVE BIRTHS.....	40,802	548	7,804	22,135	3,472	4,849	654	343	521	476
INFANT DEATHS.....	1,171	46	247	481	87	209	32	25	22	23
INF. MORT. RATE....	28.7	83.9	31.6	21.7	25.0	43.0	48.5	74.0	43.1	48.3

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1998 BIRTH COHORT DATA

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

BIRTHWEIGHT	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										
2,000-2,499 GRAMS										
LIVE BIRTHS.....	126,790	409	2,572	43,164	19,665	46,088	6,856	3,093	3,645	1,298
INFANT DEATHS.....	1,593	16	93	482	213	515	106	73	66	28
INF. MORT. RATE....	12.6	39.9	36.1	11.2	10.8	11.2	15.4	23.8	18.2	21.6
2,500-2,999 GRAMS										
LIVE BIRTHS.....	465,494	611	2,499	38,891	44,322	259,518	63,011	27,908	24,542	4,192
INFANT DEATHS.....	2,109	14	23	264	209	1,058	257	143	115	26
INF. MORT. RATE....	4.5	23.4	9.1	6.8	4.7	4.1	4.1	5.1	4.7	6.1
3,000-3,499 GRAMS										
LIVE BIRTHS.....	1,140,741	-	3,291	26,963	37,200	607,353	252,252	120,192	83,191	10,299
INFANT DEATHS.....	2,676	-	20	145	116	1,352	476	277	255	36
INF. MORT. RATE....	2.3	-	6.2	5.4	3.1	2.2	1.9	2.3	3.1	3.5
3,500-3,999 GRAMS										
LIVE BIRTHS.....	958,968	-	1,865	12,901	14,247	424,219	266,592	145,093	85,517	8,534
INFANT DEATHS.....	1,524	-	10	47	42	644	368	240	150	24
INF. MORT. RATE....	1.6	-	5.4	3.6	2.9	1.5	1.4	1.7	1.8	2.8
4,000-4,499 GRAMS										
LIVE BIRTHS.....	294,403	-	-	2,980	3,181	109,817	88,369	56,500	30,872	2,684
INFANT DEATHS.....	442	-	-	14	6	167	126	77	43	9
INF. MORT. RATE....	1.5	-	-	4.8	1.9	1.5	1.4	1.4	1.4	3.4
4,500-4,999 GRAMS										
LIVE BIRTHS.....	48,687	-	-	469	542	16,384	14,376	10,552	5,887	477
INFANT DEATHS.....	90	-	-	-	6	29	28	16	7	4
INF. MORT. RATE....	1.9	-	-	-	11.2	1.7	2.0	1.5	1.2	8.9
5,000 GRAMS OR MORE										
LIVE BIRTHS.....	5,350	-	-	73	79	1,994	1,406	1,054	662	82
INFANT DEATHS.....	23	-	-	3	-	9	5	2	2	2
INF. MORT. RATE....	4.4	-	-	41.6	-	4.6	3.6	1.9	3.1	25.1
NOT STATED										
LIVE BIRTHS.....	1,198	-	-	-	-	-	-	-	-	1,198
INFANT DEATHS.....	208	-	-	-	-	-	-	-	-	208
INF. MORT. RATE....	173.8	-	-	-	-	-	-	-	-	173.8

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1998 BIRTH COHORT DATA

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

BIRTHWEIGHT	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.....	609,902	10,899	13,988	48,954	31,932	282,824	114,888	57,500	43,931	4,986
INFANT DEATHS.....	8,392	4,400	693	640	278	1,272	398	231	205	275
INF. MORT. RATE....	13.8	403.7	49.6	13.1	8.7	4.5	3.5	4.0	4.7	55.1
LESS THAN 2,500 GRAMS										
LIVE BIRTHS.....	79,772	10,477	10,501	24,093	8,138	19,342	3,140	1,486	1,759	836
INFANT DEATHS.....	6,165	4,393	669	487	140	263	43	27	31	110
INF. MORT. RATE....	77.3	419.3	63.7	20.2	17.2	13.6	13.9	18.4	17.9	131.6
LESS THAN 500 GRAMS										
LIVE BIRTHS.....	2,583	2,438	82	3	-	5	1	-	-	54
INFANT DEATHS.....	2,206	2,113	52	3	-	-	1	-	-	36
INF. MORT. RATE....	854.1	866.9	639.7	1009.4	-	-	1000.0	-	-	668.5
500-749 GRAMS										
LIVE BIRTHS.....	4,127	3,577	444	30	10	3	-	-	-	63
INFANT DEATHS.....	1,903	1,714	143	6	4	1	-	-	-	34
INF. MORT. RATE....	461.0	479.2	323.1	203.2	400.6	333.3	-	-	-	538.5
750-999 GRAMS										
LIVE BIRTHS.....	3,861	2,406	1,225	127	13	26	12	4	4	44
INFANT DEATHS.....	555	407	119	11	1	3	1	-	1	11
INF. MORT. RATE....	143.6	169.1	97.3	87.7	78.7	118.1	85.2	-	263.9	256.7
1,000-1,249 GRAMS										
LIVE BIRTHS.....	4,017	1,076	2,107	598	38	84	35	15	25	39
INFANT DEATHS.....	283	94	130	39	4	5	1	-	2	7
INF. MORT. RATE....	70.3	87.4	61.6	65.8	107.2	60.5	28.6	-	81.7	183.0
1,250-1,499 GRAMS										
LIVE BIRTHS.....	4,432	332	2,355	1,279	105	192	44	17	49	59
INFANT DEATHS.....	215	32	104	51	6	12	2	1	4	2
INF. MORT. RATE....	48.4	97.7	44.2	39.6	57.9	63.5	46.6	58.8	82.6	34.3
1,500-1,999 GRAMS										
LIVE BIRTHS.....	15,383	400	2,937	7,960	1,264	1,953	298	170	240	161
INFANT DEATHS.....	439	23	95	178	33	72	13	8	6	9
INF. MORT. RATE....	28.5	58.2	32.5	22.4	26.4	36.8	44.1	47.9	25.5	56.7

SEE FOOTNOTES AT END OF TABLE.

DOCUMENTATION TABLE 3

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND GESTATIONAL AGE:
UNITED STATES, 1998 BIRTH COHORT DATA

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

BIRTHWEIGHT	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										
2,000-2,499 GRAMS										
LIVE BIRTHS.....	45,369	248	1,351	14,096	6,708	17,079	2,750	1,280	1,441	416
INFANT DEATHS.....	566	9	24	199	91	170	25	18	18	10
INF. MORT. RATE....	12.5	36.9	18.1	14.1	13.6	10.0	9.2	14.2	12.6	25.0
2,500-2,999 GRAMS										
LIVE BIRTHS.....	141,146	422	1,514	12,093	11,927	77,695	19,564	8,533	8,304	1,094
INFANT DEATHS.....	805	7	14	95	76	409	86	49	56	13
INF. MORT. RATE....	5.7	17.0	9.4	7.9	6.4	5.3	4.4	5.7	6.7	12.2
3,000-3,499 GRAMS										
LIVE BIRTHS.....	230,937	-	1,421	8,688	8,410	119,135	49,680	23,724	18,267	1,612
INFANT DEATHS.....	815	-	9	39	46	389	157	90	72	12
INF. MORT. RATE....	3.5	-	6.5	4.5	5.4	3.3	3.2	3.8	3.9	7.6
3,500-3,999 GRAMS										
LIVE BIRTHS.....	125,007	-	552	3,337	2,838	54,158	33,319	17,886	12,050	867
INFANT DEATHS.....	371	-	1	9	14	173	84	44	38	8
INF. MORT. RATE....	3.0	-	1.8	2.7	5.0	3.2	2.5	2.4	3.1	9.4
4,000-4,499 GRAMS										
LIVE BIRTHS.....	27,972	-	-	628	509	10,633	7,929	5,059	2,993	221
INFANT DEATHS.....	84	-	-	7	2	28	23	17	6	-
INF. MORT. RATE....	3.0	-	-	11.2	4.0	2.7	3.0	3.4	2.0	-
4,500-4,999 GRAMS										
LIVE BIRTHS.....	4,170	-	-	96	91	1,613	1,109	721	507	33
INFANT DEATHS.....	18	-	-	1	-	6	4	4	2	1
INF. MORT. RATE....	4.4	-	-	10.7	-	3.8	3.7	5.7	4.0	30.3
5,000 GRAMS OR MORE										
LIVE BIRTHS.....	584	-	-	19	19	248	147	91	51	9
INFANT DEATHS.....	5	-	-	1	-	3	-	-	-	1
INF. MORT. RATE....	8.7	-	-	53.7	-	12.2	-	-	-	117.3
NOT STATED										
LIVE BIRTHS.....	314	-	-	-	-	-	-	-	-	314
INFANT DEATHS.....	129	-	-	-	-	-	-	-	-	129
INF. MORT. RATE....	410.7	-	-	-	-	-	-	-	-	410.7

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

- DATA NOT AVAILABLE.

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
 UNITED STATES, 1998 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)

BIRTHWEIGHT AND RACE OF MOTHER	LIVE BIRTHS	INFANT	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
ALL RACES1/ —						
TOTAL (ALL BIRTHWEIGHTS).....	NUMBER.. 3,941,553	28,197	18,874	15,039	3,836	9,323
	RATE..	7.2	4.8	3.8	1.0	2.4
LESS THAN 2,500 GRAMS.....	NUMBER.. 299,209	18,352	15,066	12,622	2,444	3,286
	RATE..	61.3	50.4	42.2	8.2	11.0
LESS THAN 500 GRAMS.....	NUMBER.. 6,349	5,480	5,397	5,236	161	83
	RATE..	863.1	850.0	824.7	25.4	13.1
500-749 GRAMS.....	NUMBER.. 11,041	5,336	4,671	3,821	851	665
	RATE..	483.3	423.1	346.1	77.0	60.2
750-999 GRAMS.....	NUMBER.. 11,716	1,865	1,438	972	466	428
	RATE..	159.2	122.7	83.0	39.7	36.5
1,000-1,249 GRAMS.....	NUMBER.. 13,238	936	686	497	189	250
	RATE..	70.7	51.8	37.5	14.3	18.9
1,250-1,499 GRAMS.....	NUMBER.. 15,389	756	553	407	146	202
	RATE..	49.1	36.0	26.5	9.5	13.1
1,500-1,999 GRAMS.....	NUMBER.. 59,014	1,705	1,099	827	272	606
	RATE..	28.9	18.6	14.0	4.6	10.3
2,000-2,499 GRAMS.....	NUMBER.. 182,462	2,274	1,223	862	360	1,051
	RATE..	12.5	6.7	4.7	2.0	5.8
2,500-2,999 GRAMS.....	NUMBER.. 650,006	3,090	1,198	721	476	1,893
	RATE..	4.8	1.8	1.1	.7	2.9
3,000-3,499 GRAMS.....	NUMBER.. 1,458,017	3,684	1,269	732	537	2,415
	RATE..	2.5	.9	.5	.4	1.7
3,500-3,999 GRAMS.....	NUMBER.. 1,136,056	1,993	694	422	272	1,299
	RATE..	1.8	.6	.4	.2	1.1

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
 UNITED STATES, 1998 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)-Continued

BIRTHWEIGHT AND RACE OF MOTHER	LIVE BIRTHS	INFANT	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST- NEONATAL
ALL RACES1/ —						
4,000-4,499 GRAMS.....	NUMBER... 335,215	561	213	130	83	348
	RATE... ..	1.7	.6	.4	.2	1.0
4,500-4,999 GRAMS.....	NUMBER... 54,827	114	64	54	10	50
	RATE... ..	2.1	1.2	1.0	.2	.9
5,000 GRAMS OR MORE.....	NUMBER... 6,203	29	20	17	3	9
	RATE... ..	4.8	3.3	2.8	.5	1.5
NOT STATED.....	NUMBER... 2,020	374	350	340	10	23
	RATE... ..	185.0	173.5	168.5	5.0	11.6

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
UNITED STATES, 1998 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)-Continued

BIRTHWEIGHT AND RACE OF MOTHER	LIVE BIRTHS	INFANT	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE						
TOTAL (ALL BIRTHWEIGHTS).....	NUMBER.. 3,118,727	18,460	12,328	9,724	2,604	6,132
	RATE..	5.9	4.0	3.1	.8	2.0
LESS THAN 2,500 GRAMS.....	NUMBER.. 203,886	11,387	9,479	7,921	1,559	1,907
	RATE..	55.8	46.5	38.8	7.6	9.4
LESS THAN 500 GRAMS.....	NUMBER.. 3,502	3,049	3,005	2,913	92	44
	RATE..	870.6	858.1	831.9	26.2	12.4
500-749 GRAMS.....	NUMBER.. 6,510	3,231	2,889	2,403	486	342
	RATE..	496.4	443.8	369.1	74.6	52.6
750-999 GRAMS.....	NUMBER.. 7,360	1,222	988	673	314	234
	RATE..	166.0	134.2	91.5	42.7	31.8
1,000-1,249 GRAMS.....	NUMBER.. 8,670	613	479	352	127	134
	RATE..	70.8	55.3	40.6	14.7	15.5
1,250-1,499 GRAMS.....	NUMBER.. 10,252	507	389	297	92	118
	RATE..	49.5	38.0	29.0	9.0	11.5
1,500-1,999 GRAMS.....	NUMBER.. 40,802	1,171	805	621	184	367
	RATE..	28.7	19.7	15.2	4.5	9.0
2,000-2,499 GRAMS.....	NUMBER.. 126,790	1,593	924	661	264	668
	RATE..	12.6	7.3	5.2	2.1	5.3
2,500-2,999 GRAMS.....	NUMBER.. 465,494	2,109	869	544	325	1,239
	RATE..	4.5	1.9	1.2	.7	2.7
3,000-3,499 GRAMS.....	NUMBER.. 1,140,741	2,676	977	568	409	1,699
	RATE..	2.3	.9	.5	.4	1.5
3,500-3,999 GRAMS.....	NUMBER.. 958,968	1,524	568	344	224	956
	RATE..	1.6	.6	.4	.2	1.0

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
 UNITED STATES, 1998 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)-Continued

BIRTHWEIGHT AND RACE OF MOTHER	LIVE BIRTHS	INFANT	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST- NEONATAL
WHITE						
4,000-4,499 GRAMS.....NUMBER..	294,403	442	177	106	71	265
RATE..		1.5	.6	.4	.2	.9
4,500-4,999 GRAMS.....NUMBER..	48,687	90	47	39	8	43
RATE..		1.9	1.0	.8	.2	.9
5,000 GRAMS OR MORE.....NUMBER..	5,350	23	15	12	3	8
RATE..		4.4	2.9	2.3	.6	1.5
NOT STATED.....NUMBER..	1,198	208	195	190	5	13
RATE..		173.8	162.8	158.6	4.2	11.0

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
 UNITED STATES, 1998 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)-Continued

BIRTHWEIGHT AND RACE OF MOTHER	LIVE BIRTHS	INFANT	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK						
TOTAL (ALL BIRTHWEIGHTS).....	NUMBER.. 609,902	8,392	5,677	4,629	1,048	2,715
	RATE..	13.8	9.3	7.6	1.7	4.5
LESS THAN 2,500 GRAMS.....	NUMBER.. 79,772	6,165	4,934	4,148	785	1,231
	RATE..	77.3	61.8	52.0	9.8	15.4
LESS THAN 500 GRAMS.....	NUMBER.. 2,583	2,206	2,172	2,106	65	34
	RATE..	854.1	840.7	815.4	25.3	13.3
500-749 GRAMS.....	NUMBER.. 4,127	1,903	1,606	1,271	335	296
	RATE..	461.0	389.3	308.0	81.2	71.8
750-999 GRAMS.....	NUMBER.. 3,861	555	378	249	129	176
	RATE..	143.6	98.0	64.6	33.4	45.7
1,000-1,249 GRAMS.....	NUMBER.. 4,017	283	172	118	54	110
	RATE..	70.3	42.9	29.3	13.6	27.5
1,250-1,499 GRAMS.....	NUMBER.. 4,432	215	141	90	50	74
	RATE..	48.4	31.7	20.4	11.3	16.7
1,500-1,999 GRAMS.....	NUMBER.. 15,383	439	229	156	73	210
	RATE..	28.5	14.9	10.1	4.7	13.7
2,000-2,499 GRAMS.....	NUMBER.. 45,369	566	236	157	79	330
	RATE..	12.5	5.2	3.5	1.7	7.3
2,500-2,999 GRAMS.....	NUMBER.. 141,146	805	250	140	110	555
	RATE..	5.7	1.8	1.0	.8	3.9
3,000-3,499 GRAMS.....	NUMBER.. 230,937	815	228	121	107	587
	RATE..	3.5	1.0	.5	.5	2.5
3,500-3,999 GRAMS.....	NUMBER.. 125,007	371	97	60	37	274
	RATE..	3.0	.8	.5	.3	2.2

DOCUMENTATION TABLE 4

LIVE BIRTHS, INFANT DEATHS, AND INFANT MORTALITY RATES BY BIRTHWEIGHT, RACE OF MOTHER, AND AGE AT DEATH:
 UNITED STATES, 1998 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)-Continued

BIRTHWEIGHT AND RACE OF MOTHER	LIVE BIRTHS	INFANT	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST- NEONATAL
BLACK						
4,000-4,499 GRAMS.....	NUMBER.. 27,972	84	25	17	8	59
	RATE..	3.0	.9	.6	.3	2.1
4,500-4,999 GRAMS.....	NUMBER.. 4,170	18	14	13	1	4
	RATE..	4.4	3.4	3.2	.2	1.0
5,000 GRAMS OR MORE.....	NUMBER.. 584	5	5	5	-	-
	RATE..	8.7	8.7	8.7	-	-
NOT STATED.....	NUMBER.. 314	129	124	124	-	5
	RATE..	410.7	394.3	394.3	-	16.3

1/ INCLUDES RACES OTHER THAN WHITE AND BLACK

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DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
ALL RACES 1/, ALL BIRTHWEIGHTS						
ALL CAUSES.....	NUMBER... 3,941,553	28,197	18,874	15,039	3,836	9,323
	RATE..	715.4	478.9	381.5	97.3	236.5
CONGENITAL ANOMALIES (740-759).....	NUMBER... 6,134	4,538	3,469	1,069	1,597	
	RATE..	155.6	115.1	88.0	27.1	40.5
PREMATURITY (765).....	NUMBER... 4,070	4,018	3,930	88	52	
	RATE..	103.3	101.9	99.7	2.2	1.3
SUDDEN INFANT DEATH SYNDROME (798.0).....	NUMBER... 2,081	176	21	154	1,905	
	RATE..	52.8	4.5	.5	3.9	48.3
MATERNAL COMPLICATIONS (761).....	NUMBER... 1,340	1,334	1,318	16	6	
	RATE..	34.0	33.8	33.4	.4	.2
RESPIRATORY DISTRESS SYNDROME (769).....	NUMBER... 1,313	1,226	961	264	87	
	RATE..	33.3	31.1	24.4	6.7	2.2
COMPLICATIONS OF PLACENTA, ETC. (762).....	NUMBER... 955	940	907	33	15	
	RATE..	24.2	23.8	23.0	.8	.4
INFECTIONS (771).....	NUMBER... 811	764	345	418	48	
	RATE..	20.6	19.4	8.8	10.6	1.2
ACCIDENTS (E800-E949).....	NUMBER... 713	81	39	42	632	
	RATE..	18.1	2.1	1.0	1.1	16.0
HYPOXIA AND ASPHYXIA (768).....	NUMBER... 459	418	349	69	41	
	RATE..	11.6	10.6	8.9	1.8	1.0
PNEUMONIA AND INFLUENZA (480-487).....	NUMBER... 428	88	26	63	340	
	RATE..	10.9	2.2	.7	1.6	8.6
ALL OTHER CAUSES.....	NUMBER... 9,893	5,292	3,674	1,618	4,601	
	RATE..	251.0	134.3	93.2	41.0	116.7

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, 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... 299,209	18,352	15,066	12,622	2,444	3,286
	RATE..	6,133.5	5,035.4	4,218.4	817.0	1,098.2
CONGENITAL ANOMALIES (740-759).....	NUMBER... 3,546	3,546	2,936	2,440	496	610
	RATE..	1,185.2	981.3	815.6	165.8	203.8
PREMATURITY (765).....	NUMBER... 3,892	3,892	3,844	3,757	87	49
	RATE..	1,300.8	1,284.6	1,255.5	29.0	16.3
SUDDEN INFANT DEATH SYNDROME (798.0).....	NUMBER... 408	408	34	3	31	374
	RATE..	136.3	11.5	1.0	10.5	124.8
MATERNAL COMPLICATIONS (761).....	NUMBER... 1,250	1,250	1,245	1,231	14	5
	RATE..	417.7	416.0	411.3	4.7	1.7
RESPIRATORY DISTRESS SYNDROME (769).....	NUMBER... 1,239	1,239	1,176	926	250	63
	RATE..	414.2	393.1	309.5	83.7	21.0
COMPLICATIONS OF PLACENTA, ETC. (762).....	NUMBER... 811	811	799	774	25	11
	RATE..	270.9	267.2	258.7	8.4	3.8
INFECTIONS (771).....	NUMBER... 676	676	644	293	351	31
	RATE..	225.8	215.3	98.0	117.3	10.5
ACCIDENTS (E800-E949).....	NUMBER... 133	133	24	14	10	108
	RATE..	44.3	8.1	4.8	3.4	36.2
HYPOXIA AND ASPHYXIA (768).....	NUMBER... 218	218	209	188	21	9
	RATE..	72.9	69.8	62.7	7.1	3.1
PNEUMONIA AND INFLUENZA (480-487).....	NUMBER... 192	192	54	20	34	138
	RATE..	64.1	18.0	6.5	11.5	46.1
ALL OTHER CAUSES.....	NUMBER... 5,988	5,988	4,101	2,976	1,124	1,887
	RATE..	2,001.3	1,370.5	994.7	375.7	630.8

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, 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... 3,640,324	9,472	3,458	2,076	1,381	6,014
	RATE..	260.2	95.0	57.0	37.9	165.2
CONGENITAL ANOMALIES (740-759).....	NUMBER... 2,549	1,567	996	571	982	
	RATE..	70.0	43.1	27.4	15.7	27.0
PREMATURITY (765).....	NUMBER... 55	55	54	1	-	-
	RATE..	1.5	1.5	1.5	.0	-
SUDDEN INFANT DEATH SYNDROME (798.0).....	NUMBER... 1,672	140	17	123	1,532	
	RATE..	45.9	3.9	.5	3.4	42.1
MATERNAL COMPLICATIONS (761).....	NUMBER... 32	31	29	2	1	
	RATE..	.9	.8	.8	.1	.0
RESPIRATORY DISTRESS SYNDROME (769).....	NUMBER... 67	42	28	14	24	
	RATE..	1.8	1.2	.8	.4	.7
COMPLICATIONS OF PLACENTA, ETC. (762).....	NUMBER... 105	101	92	8	4	
	RATE..	2.9	2.8	2.5	.2	.1
INFECTIONS (771).....	NUMBER... 133	116	51	65	16	
	RATE..	3.6	3.2	1.4	1.8	.4
ACCIDENTS (E800-E949).....	NUMBER... 580	57	24	32	523	
	RATE..	15.9	1.6	.7	.9	14.4
HYPOXIA AND ASPHYXIA (768).....	NUMBER... 230	200	152	48	29	
	RATE..	6.3	5.5	4.2	1.3	.8
PNEUMONIA AND INFLUENZA (480-487).....	NUMBER... 235	34	6	28	201	
	RATE..	6.5	.9	.2	.8	5.5
ALL OTHER CAUSES.....	NUMBER... 3,814	1,113	625	488	2,701	
	RATE..	104.8	30.6	17.2	13.4	74.2

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
ALL RACES 1/, NOT STATED BIRTHWEIGHT						
ALL CAUSES.....	NUMBER... 2,020	374	350	340	10	23
	RATE..	18,504.1	17,348.3	16,849.9	498.4	1,155.8
CONGENITAL ANOMALIES (740-759).....	NUMBER... 39	34	32	2	5	
	RATE..	1,944.1	1,694.9	1,595.9	99.0	249.1
PREMATURITY (765).....	NUMBER... 122	119	119	-	3	
	RATE..	6,045.3	5,894.3	5,894.3	-	151.1
SUDDEN INFANT DEATH SYNDROME (798.0).....	NUMBER... 1	1	1	-	-	
	RATE..	51.1	51.1	51.1	-	-
MATERNAL COMPLICATIONS (761).....	NUMBER... 58	58	58	-	-	
	RATE..	2,881.9	2,881.9	2,881.9	-	-
RESPIRATORY DISTRESS SYNDROME (769).....	NUMBER... 7	7	7	-	-	
	RATE..	350.6	350.6	350.6	-	-
COMPLICATIONS OF PLACENTA, ETC. (762).....	NUMBER... 40	40	40	-	-	
	RATE..	1,980.8	1,980.8	1,980.8	-	-
INFECTIONS (771).....	NUMBER... 3	3	1	2	-	
	RATE..	148.7	148.7	49.7	99.0	-
ACCIDENTS (E800-E949).....	NUMBER... -	-	-	-	-	-
	RATE..	-	-	-	-	-
HYPOXIA AND ASPHYXIA (768).....	NUMBER... 11	9	9	-	2	
	RATE..	554.0	453.4	453.4	-	100.6
PNEUMONIA AND INFLUENZA (480-487).....	NUMBER... 1	-	-	-	1	
	RATE..	50.8	-	-	-	50.8
ALL OTHER CAUSES.....	NUMBER... 91	79	73	6	12	
	RATE..	4,496.8	3,892.6	3,592.2	300.4	604.2

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE, ALL BIRTHWEIGHTS						
ALL CAUSES.....	NUMBER... 3,118,727	18,460	12,328	9,724	2,604	6,132
	RATE..	591.9	395.3	311.8	83.5	196.6
CONGENITAL ANOMALIES (740-759).....	NUMBER... 4,715	3,530	2,726	803	1,186	
	RATE..	151.2	113.2	87.4	25.8	38.0
PREMATURITY (765).....	NUMBER... 2,207	2,179	2,126	53	28	
	RATE..	70.8	69.9	68.2	1.7	.9
SUDDEN INFANT DEATH SYNDROME (798.0).....	NUMBER... 1,372	124	13	111	1,248	
	RATE..	44.0	4.0	.4	3.6	40.0
MATERNAL COMPLICATIONS (761).....	NUMBER... 835	830	821	9	5	
	RATE..	26.8	26.6	26.3	.3	.2
RESPIRATORY DISTRESS SYNDROME (769).....	NUMBER... 830	778	610	169	52	
	RATE..	26.6	25.0	19.5	5.4	1.7
COMPLICATIONS OF PLACENTA, ETC. (762).....	NUMBER... 624	614	590	23	10	
	RATE..	20.0	19.7	18.9	.7	.3
INFECTIONS (771).....	NUMBER... 529	498	230	268	30	
	RATE..	17.0	16.0	7.4	8.6	1.0
ACCIDENTS (E800-E949).....	NUMBER... 475	66	31	35	409	
	RATE..	15.2	2.1	1.0	1.1	13.1
HYPOXIA AND ASPHYXIA (768).....	NUMBER... 321	292	241	51	28	
	RATE..	10.3	9.4	7.7	1.6	.9
PNEUMONIA AND INFLUENZA (480-487).....	NUMBER... 261	62	20	42	199	
	RATE..	8.4	2.0	.6	1.4	6.4
ALL OTHER CAUSES.....	NUMBER... 6,291	3,355	2,317	1,039	2,936	
	RATE..	201.7	107.6	74.3	33.3	94.1

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE, LESS THAN 2,500 GRAMS						
ALL CAUSES.....	203,886	11,387	9,479	7,921	1,559	1,907
	RATE..	5,584.9	4,649.4	3,884.8	764.6	935.5
CONGENITAL ANOMALIES (740-759).....		2,684	2,269	1,910	359	415
	RATE..	1,316.4	1,112.8	936.8	175.9	203.6
PREMATURITY (765).....		2,101	2,074	2,022	53	26
	RATE..	1,030.4	1,017.5	991.7	25.8	12.9
SUDDEN INFANT DEATH SYNDROME (798.0).....		229	26	-	26	203
	RATE..	112.4	12.9	-	12.9	99.5
MATERNAL COMPLICATIONS (761).....		785	780	772	8	5
	RATE..	385.3	382.8	378.9	3.9	2.5
RESPIRATORY DISTRESS SYNDROME (769).....		776	740	583	158	36
	RATE..	380.5	363.1	285.8	77.3	17.4
COMPLICATIONS OF PLACENTA, ETC. (762).....		514	508	489	18	6
	RATE..	252.0	249.0	240.0	8.9	3.0
INFECTIONS (771).....		424	405	186	219	18
	RATE..	207.7	198.7	91.3	107.4	9.0
ACCIDENTS (E800-E949).....		83	19	11	8	64
	RATE..	40.7	9.5	5.5	3.9	31.2
HYPOXIA AND ASPHYXIA (768).....		133	129	116	13	4
	RATE..	65.2	63.2	56.7	6.4	2.0
PNEUMONIA AND INFLUENZA (480-487).....		110	37	14	22	73
	RATE..	53.8	18.0	7.1	10.9	35.8
ALL OTHER CAUSES.....		3,549	2,492	1,817	675	1,057
	RATE..	1,740.6	1,222.1	891.0	331.2	518.4

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, 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... 2,913,643	6,865	2,654	1,614	1,040	4,211
	RATE..	235.6	91.1	55.4	35.7	144.5
CONGENITAL ANOMALIES (740-759).....	NUMBER... ..	2,002	1,235	791	444	767
	RATE..	68.7	42.4	27.2	15.2	26.3
PREMATURITY (765).....	NUMBER... ..	38	38	38	-	-
	RATE..	1.3	1.3	1.3	-	-
SUDDEN INFANT DEATH SYNDROME (798.0).....	NUMBER... ..	1,143	98	13	85	1,045
	RATE..	39.2	3.4	.5	2.9	35.9
MATERNAL COMPLICATIONS (761).....	NUMBER... ..	22	22	21	1	-
	RATE..	.7	.7	.7	.0	-
RESPIRATORY DISTRESS SYNDROME (769).....	NUMBER... ..	51	35	24	11	16
	RATE..	1.8	1.2	.8	.4	.6
COMPLICATIONS OF PLACENTA, ETC. (762).....	NUMBER... ..	83	79	74	5	4
	RATE..	2.9	2.7	2.5	.2	.1
INFECTIONS (771).....	NUMBER... ..	104	92	43	49	12
	RATE..	3.6	3.2	1.5	1.7	.4
ACCIDENTS (E800-E949).....	NUMBER... ..	392	47	19	27	345
	RATE..	13.4	1.6	.7	.9	11.8
HYPOXIA AND ASPHYXIA (768).....	NUMBER... ..	180	157	118	38	23
	RATE..	6.2	5.4	4.1	1.3	.8
PNEUMONIA AND INFLUENZA (480-487).....	NUMBER... ..	150	25	5	20	125
	RATE..	5.2	.9	.2	.7	4.3
ALL OTHER CAUSES.....	NUMBER... ..	2,700	827	467	360	1,873
	RATE..	92.7	28.4	16.0	12.3	64.3

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
WHITE, NOT STATED BIRTHWEIGHT						
ALL CAUSES.....	1,198	208	195	190	5	13
.....NUMBER...						
.....RATE..		17,379.9	16,278.9	15,859.1	419.8	1,101.0
CONGENITAL ANOMALIES (740-759).....		29	26	25	1	3
.....NUMBER...						
.....RATE..		2,434.8	2,182.2	2,098.7	83.5	252.6
PREMATURITY (765).....		68	66	66	-	2
.....NUMBER...						
.....RATE..		5,711.9	5,543.4	5,543.4	-	168.5
SUDDEN INFANT DEATH SYNDROME (798.0).....		-	-	-	-	-
.....NUMBER...						
.....RATE..		-	-	-	-	-
MATERNAL COMPLICATIONS (761).....		28	28	28	-	-
.....NUMBER...						
.....RATE..		2,304.0	2,304.0	2,304.0	-	-
RESPIRATORY DISTRESS SYNDROME (769).....		3	3	3	-	-
.....NUMBER...						
.....RATE..		255.2	255.2	255.2	-	-
COMPLICATIONS OF PLACENTA, ETC. (762).....		27	27	27	-	-
.....NUMBER...						
.....RATE..		2,243.8	2,243.8	2,243.8	-	-
INFECTIONS (771).....		1	1	1	-	-
.....NUMBER...						
.....RATE..		83.7	83.7	83.7	-	-
ACCIDENTS (E800-E949).....		-	-	-	-	-
.....NUMBER...						
.....RATE..		-	-	-	-	-
HYPOXIA AND ASPHYXIA (768).....		8	7	7	-	1
.....NUMBER...						
.....RATE..		678.1	594.6	594.6	-	83.5
PNEUMONIA AND INFLUENZA (480-487).....		1	-	-	-	1
.....NUMBER...						
.....RATE..		85.7	-	-	-	85.7
ALL OTHER CAUSES.....		43	37	33	4	6
.....NUMBER...						
.....RATE..		3,582.5	3,071.9	2,735.6	336.3	510.6

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK, ALL BIRTHWEIGHTS						
ALL CAUSES.....	609,902	8,392	5,677	4,629	1,048	2,715
		1,376.0	930.8	759.0	171.9	445.2
CONGENITAL ANOMALIES (740-759).....		1,091	766	567	198	326
		178.9	125.6	93.0	32.5	53.4
PREMATURITY (765).....		1,686	1,662	1,630	32	23
		276.4	272.5	267.2	5.3	3.8
SUDDEN INFANT DEATH SYNDROME (798.0).....		613	39	6	33	574
		100.6	6.4	1.0	5.4	94.1
MATERNAL COMPLICATIONS (761).....		444	443	438	5	1
		72.7	72.6	71.8	.8	.2
RESPIRATORY DISTRESS SYNDROME (769).....		436	402	315	88	33
		71.5	66.0	51.6	14.4	5.5
COMPLICATIONS OF PLACENTA, ETC. (762).....		299	294	285	9	5
		49.0	48.1	46.7	1.5	.8
INFECTIONS (771).....		248	231	101	131	16
		40.6	38.0	16.5	21.5	2.7
ACCIDENTS (E800-E949).....		209	11	7	4	198
		34.2	1.8	1.2	.7	32.4
HYPOXIA AND ASPHYXIA (768).....		113	103	86	17	10
		18.6	16.9	14.1	2.8	1.7
PNEUMONIA AND INFLUENZA (480-487).....		132	22	5	17	109
		21.6	3.6	.8	2.8	18.0
ALL OTHER CAUSES.....		3,122	1,703	1,190	513	1,419
		511.9	279.3	195.1	84.2	232.6

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK, LESS THAN 2,500 GRAMS						
ALL CAUSES.....	79,772	6,165	4,934	4,148	785	1,231
		7,728.0	6,184.6	5,200.0	984.6	1,543.4
CONGENITAL ANOMALIES (740-759).....		677	519	407	112	158
		848.4	650.1	509.9	140.2	198.3
PREMATURITY (765).....		1,629	1,606	1,574	32	22
		2,041.6	2,013.5	1,973.2	40.4	28.0
SUDDEN INFANT DEATH SYNDROME (798.0).....		171	7	2	5	164
		213.9	8.9	2.6	6.3	205.0
MATERNAL COMPLICATIONS (761).....		411	411	407	4	-
		515.3	515.3	510.2	5.0	-
RESPIRATORY DISTRESS SYNDROME (769).....		417	391	306	85	25
		522.1	490.3	384.1	106.2	31.8
COMPLICATIONS OF PLACENTA, ETC. (762).....		271	266	259	7	5
		340.1	333.7	324.9	8.9	6.4
INFECTIONS (771).....		225	212	95	118	12
		281.5	266.2	118.5	147.7	15.2
ACCIDENTS (E800-E949).....		47	4	3	1	43
		58.4	5.1	3.8	1.3	53.3
HYPOXIA AND ASPHYXIA (768).....		69	65	57	8	4
		86.4	81.3	71.2	10.1	5.1
PNEUMONIA AND INFLUENZA (480-487).....		68	14	4	10	54
		85.2	17.8	5.2	12.6	67.3
ALL OTHER CAUSES.....		2,182	1,438	1,034	404	744
		2,735.3	1,802.4	1,296.5	505.9	932.9

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK, 2,500 GRAMS OR MORE						
ALL CAUSES.....	529,816	2,099	620	357	263	1,479
		396.1	117.0	67.4	49.6	279.1
CONGENITAL ANOMALIES (740-759).....		410	243	157	87	166
		77.3	45.9	29.5	16.3	31.4
PREMATURITY (765).....		11	11	11	-	-
		2.2	2.2	2.2	-	-
SUDDEN INFANT DEATH SYNDROME (798.0).....		442	31	3	28	411
		83.4	5.9	.6	5.3	77.5
MATERNAL COMPLICATIONS (761).....		7	6	5	1	1
		1.3	1.2	1.0	.2	.2
RESPIRATORY DISTRESS SYNDROME (769).....		15	7	4	3	8
		2.9	1.4	.8	.6	1.5
COMPLICATIONS OF PLACENTA, ETC. (762).....		15	15	13	2	-
		2.9	2.9	2.5	.4	-
INFECTIONS (771).....		23	19	6	13	4
		4.4	3.6	1.1	2.5	.8
ACCIDENTS (E800-E949).....		162	7	4	3	155
		30.6	1.3	.8	.6	29.3
HYPOXIA AND ASPHYXIA (768).....		41	36	27	9	5
		7.8	6.9	5.2	1.7	1.0
PNEUMONIA AND INFLUENZA (480-487).....		64	8	1	7	56
		12.0	1.5	.2	1.3	10.5
ALL OTHER CAUSES.....		908	235	125	110	673
		171.3	44.4	23.6	20.7	126.9

DOCUMENTATION TABLE 5

LIVE BIRTHS BY BIRTHWEIGHT AND RACE OF MOTHER AND INFANT DEATHS AND INFANT MORTALITY RATES BY AGE AT DEATH, BIRTHWEIGHT, AND RACE OF MOTHER FOR 10 MAJOR CAUSES OF INFANT DEATH: UNITED STATES, 1998 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, BIRTHWEIGHT, AND RACE OF MOTHER	LIVE BIRTHS	INFANT DEATHS	TOTAL NEONATAL	EARLY NEONATAL	LATE NEONATAL	POST-NEONATAL
BLACK, NOT STATED BIRTHWEIGHT						
ALL CAUSES.....NUMBER...	314	129	124	124	-	5
RATE..		41,065.1	39,431.2	39,431.2	-	1,633.9
CONGENITAL ANOMALIES (740-759).....NUMBER...		5	4	4	-	1
RATE..		1,613.2	1,292.7	1,292.7	-	320.4
PREMATURITY (765).....NUMBER...		46	45	45	-	1
RATE..		14,502.4	14,173.7	14,173.7	-	328.7
SUDDEN INFANT DEATH SYNDROME (798.0)..NUMBER...		1	1	1	-	-
RATE..		328.5	328.5	328.5	-	-
MATERNAL COMPLICATIONS (761).....NUMBER...		26	26	26	-	-
RATE..		8,133.5	8,133.5	8,133.5	-	-
RESPIRATORY DISTRESS SYNDROME (769)...NUMBER...		4	4	4	-	-
RATE..		1,282.0	1,282.0	1,282.0	-	-
COMPLICATIONS OF PLACENTA, ETC. (762)..NUMBER...		12	12	12	-	-
RATE..		3,857.2	3,857.2	3,857.2	-	-
INFECTIONS (771).....NUMBER...		-	-	-	-	-
RATE..		-	-	-	-	-
ACCIDENTS (E800-E949).....NUMBER...		-	-	-	-	-
RATE..		-	-	-	-	-
HYPOXIA AND ASPHYXIA (768).....NUMBER...		3	2	2	-	1
RATE..		976.7	648.1	648.1	-	328.7
PNEUMONIA AND INFLUENZA (480-487).....NUMBER...		-	-	-	-	-
RATE..		-	-	-	-	-
ALL OTHER CAUSES.....NUMBER...		33	31	31	-	2
RATE..		10,371.5	9,715.5	9,715.5	-	656.0

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 -- 1998 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 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/.....	478	342	306	36	136
WHITE.....	326	228	206	22	98
BLACK.....	133	101	88	13	32
Alabama	1	1	-	1	-
WHITE.....	1	1	-	1	-
BLACK.....	-	-	-	-	-
Alaska	1	-	-	-	1
WHITE.....	1	-	-	-	1
BLACK.....	-	-	-	-	-
Arizona	11	4	4	-	7
WHITE.....	9	4	4	-	5
BLACK.....	1	-	-	-	1
Arkansas	9	5	4	1	4
WHITE.....	9	5	4	1	4
BLACK.....	-	-	-	-	-
California	111	97	85	12	14
WHITE.....	79	67	56	11	12
BLACK.....	26	24	24	-	2
Colorado	1	-	-	-	1
WHITE.....	1	-	-	-	1
BLACK.....	-	-	-	-	-
Connecticut	3	1	1	-	2
WHITE.....	3	1	1	-	2
BLACK.....	-	-	-	-	-
Delaware	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
District of Columbia	1	-	-	-	1
WHITE.....	-	-	-	-	-
BLACK.....	1	-	-	-	1
Florida	2	-	-	-	2
WHITE.....	1	-	-	-	1
BLACK.....	1	-	-	-	1
Georgia	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Hawaii	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Idaho	3	1	1	-	2
WHITE.....	3	1	1	-	2
BLACK.....	-	-	-	-	-
Illinois	22	13	9	4	9
WHITE.....	11	7	6	1	4
BLACK.....	9	5	2	3	4
Indiana	11	10	8	2	1
WHITE.....	6	5	5	-	1
BLACK.....	4	4	2	2	-
Iowa	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE:
UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1998 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 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
Kansas	3	1	1	-	2
WHITE.....	3	1	1	-	2
BLACK.....	-	-	-	-	-
Kentucky	8	7	7	-	1
WHITE.....	6	5	5	-	1
BLACK.....	2	2	2	-	-
Louisiana	12	7	7	-	5
WHITE.....	4	2	2	-	2
BLACK.....	8	5	5	-	3
Maine	2	2	2	-	-
WHITE.....	2	2	2	-	-
BLACK.....	-	-	-	-	-
Maryland	7	2	2	-	5
WHITE.....	3	-	-	-	3
BLACK.....	4	2	2	-	2
Massachusetts	9	8	7	1	1
WHITE.....	6	6	5	1	-
BLACK.....	3	2	2	-	1
Michigan	13	10	9	1	3
WHITE.....	5	2	2	-	3
BLACK.....	8	8	7	1	-
Minnesota	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Mississippi	2	-	-	-	2
WHITE.....	2	-	-	-	2
BLACK.....	-	-	-	-	-
Missouri	8	8	8	-	-
WHITE.....	3	3	3	-	-
BLACK.....	5	5	5	-	-
Montana	2	-	-	-	2
WHITE.....	2	-	-	-	2
BLACK.....	-	-	-	-	-
Nebraska	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Nevada	8	4	3	1	4
WHITE.....	7	4	3	1	3
BLACK.....	1	-	-	-	1
New Hampshire	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
New Jersey	14	11	11	-	3
WHITE.....	7	6	6	-	1
BLACK.....	7	5	5	-	2
New Mexico	10	8	7	1	2
WHITE.....	5	4	3	1	1
BLACK.....	2	2	2	-	-

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE:
UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1998 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 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
New York State	16	7	6	1	9
WHITE.....	12	5	5	-	7
BLACK.....	4	2	1	1	2
New York City	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
North Carolina	18	8	8	-	10
WHITE.....	8	5	5	-	3
BLACK.....	10	3	3	-	7
North Dakota	3	-	-	-	3
WHITE.....	2	-	-	-	2
BLACK.....	-	-	-	-	-
Ohio	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Oklahoma	59	43	40	3	16
WHITE.....	45	31	29	2	14
BLACK.....	14	12	11	1	2
Oregon	31	26	23	3	5
WHITE.....	21	18	17	1	3
BLACK.....	6	6	4	2	-
Pennsylvania	1	-	-	-	1
WHITE.....	1	-	-	-	1
BLACK.....	-	-	-	-	-
Rhode Island	15	12	11	1	3
WHITE.....	8	6	6	-	2
BLACK.....	6	5	4	1	1
South Carolina	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
South Dakota	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Tennessee	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Texas	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Utah	46	36	32	4	10
WHITE.....	37	29	27	2	8
BLACK.....	9	7	5	2	2
Vermont	1	1	1	-	-
WHITE.....	1	1	1	-	-
BLACK.....	-	-	-	-	-
Virginia	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-

DOCUMENTATION TABLE 6

UNLINKED INFANT DEATHS BY RACE, AGE AT DEATH, AND STATE OF RESIDENCE:
 UNITED STATES, PUERTO RICO, VIRGIN ISLANDS, GUAM -- 1998 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 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
Washington	7	5	5	-	2
WHITE.....	5	3	3	-	2
BLACK.....	2	2	2	-	-
West Virginia	4	3	3	-	1
WHITE.....	4	3	3	-	1
BLACK.....	-	-	-	-	-
Wisconsin	3	1	1	-	2
WHITE.....	3	1	1	-	2
BLACK.....	-	-	-	-	-
Wyoming	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Puerto Rico 3/	-	-	-	-	-
WHITE.....	-	-	-	-	-
BLACK.....	-	-	-	-	-
Virgin Islands 3/	4	4	4	-	-
WHITE.....	4	4	4	-	-
BLACK.....	-	-	-	-	-
Guam 3/	3	1	1	-	2
WHITE.....	1	-	-	-	1
BLACK.....	2	1	1	-	1

/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.

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	S T	Limited Sex	Len- Age	gth	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)