

Linked Birth/Infant Death File, 2000

2000 Period Linked Birth/Infant Death Data Set

DSN: CC36.NATAL00.DENOM
CC36.NATAL00.DENOM.PS
CC36.NATAL00.LINK
CC36.NATAL00.LINK.PS
CC36.NATAL00.UNLINK
CC36.NATAL00.UNLINK.PS

2000 Period Linked Birth/Infant Death Data Set

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Acknowledgments

This tape documentation was prepared in the Division of Vital Statistics. TJ Mathews and Marian MacDorman of the Reproductive Statistics Branch (RSB) wrote the tape documentation. Fay Menacker of RSB, provided verification of the tape documentation text. Sherry Murphy, Mortality Statistics Branch, coordinated preparation of the 2000 Mortality Technical Notes. Melissa Park and Brady Hamilton of RSB, coordinated preparation of the 2000 Natality Technical Appendix. The Registration Methods Staff provided consultation to State vital statistics offices regarding collection of birth and death certificate data. Ronald F. Chamblee, Faye Cavalchire, Connie M. Gentry, Brenda A. Green, Christina K. Jarman, Millie B. Johnson, David W. Justice, Virginia J. Justice, Susan L. McBroom, Phyllis Powell-Hobgood, Adrienne L. Rouse, Pam Stephenson, Mary M. Trotter, Mary Whitley, and Francine D. Winter of the Data Acquisition and Evaluation Branch processed computer edits, reviewed data, and were responsible for receipt and processing of the basic data file. Gail Parr, Steven Steimel, Bonita Gross, and Vanetta Harrington of the Systems Programming and Statistical Resources Branch each produced portions of the tape documentation.

Introduction

The linked birth/infant death data set (linked file) is released in two different formats - period data and birth cohort data. This documentation is for the 2000 period linked file. Beginning with 1995 data, the period linked files have formed the basis for all official NCHS linked file statistics (except for special cohort studies). Differences between period and birth cohort data are outlined below.

Period data - The numerator for the 2000 period linked file consists of all infant deaths occurring in 2000 linked to their corresponding birth certificates, whether the birth occurred in 2000 or 1999. The denominator file for this data set is the 2000 natality file, that is, all births occurring in 2000. For the first time NCHS accepted late filed birth certificates to be used specifically for the 2000 linked file. This reduced the number of unlinked records and increased the number of births in the denominator file by fewer than 100 births.

Birth cohort data - The numerator for the 1999 birth cohort linked file consists of deaths to infants born in 1999 whether the death occurred in 1999 or 2000. The denominator file is the 1999 natality file, that is, all births occurring in 1999.

While the birth cohort format has methodological advantages, it creates substantial delays in data availability, since it is necessary to wait until the close of the following data year to include all infant deaths to the birth cohort.

The 2000 period linked birth/infant death data set includes several data files. The first file includes all US infant deaths which occurred in the 2000 data year linked to their corresponding birth certificates, whether the birth occurred in 2000 or in 1999 - 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 2000 NCHS natality file for the US (plus late filed

records mentioned above) in compressed format, which is used to provide denominators for rate computations. These same three data files are also available for Puerto Rico, the Virgin Islands, and Guam.

Changes Beginning with the 1995 Data Year

In part to correct for known biases in the data, changes were made to the linked file beginning with the 1995 data year, and these changes remain effective for 2000 data. A weight has been added to the linked numerator file to correct in part for biases in percent of records linked by major characteristics (see section on *Percent of records linked* below). 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-1year). Thus, weights are 1.0 for states, which link all of their infant deaths. The denominator file is not weighted. Weights are not been computed for the Puerto Rico, Virgin Islands, and Guam file.

An imputation for not-stated birthweight has been added to the data set, to reduce potential bias in the computation of birthweight-specific infant mortality rates. Basically, if birthweight is not-stated and the period of gestation is known, birthweight is assigned the value from the previous record with the same period of gestation, race, sex, and plurality. Imputed values are flagged. The addition of this imputation has reduced the percent of not-stated responses for birthweight from 3.84% to 1.43% in the numerator file, and from 0.12% to 0.05% in the denominator file, thus reducing (but not eliminating) the potential for underestimation when computing birthweight-specific infant mortality rates. The change from a birth cohort to a period format was discussed in detail on page one.

Comparisons of infant mortality data from the linked file with infant mortality data from the vital statistics mortality file

Although the time periods are the same, numbers of infant deaths and infant mortality rates by characteristics are not always identical between the period linked file and the vital statistics mortality file.¹ The differences can be traced to three different causes: 1) geographic differences; 2) additional quality control; and 3) weighting.

¹ see: Minino AM, Arias E, Kochanek KD, Murphy SL, Smith BL. Deaths: Final Data for 2000. National vital statistics report; To be published. Hyattsville, Maryland: National Center for Health Statistics. 2002.

Geographic differences - To be included in the linked file for the 50 States and D.C., the birth and death must both occur inside the 50 States and D.C. In contrast, for the vital statistics mortality file, deaths which occur in the 50 States and D.C. to infants born inside and outside of the 50 States and D.C. are included. Similarly, to be included in the linked data file for Puerto Rico, the Virgin Islands, and Guam, the birth and death must both occur in Puerto Rico, the Virgin Islands or Guam. In contrast, for the vital statistics mortality file, deaths which occurred in Puerto Rico, the Virgin Islands, and Guam to infants born inside and outside of Puerto Rico, the Virgin Islands and Guam are included.

Additional quality control - The second reason for differences between the two files is that the linkage process subjects infant death records to an additional round of quality control review. Every year, a few records are voided from the file at this stage because they are found to be fetal deaths, deaths at ages greater than 1 year, or duplicate death certificates.

Weighting - Beginning with 1995 data, linked file records are weighted to compensate for the 1-3 percent of infant death records which could not be linked to their corresponding birth certificates. Although every effort has been made to design weights which will accurately reflect the distribution of deaths by characteristics, weighting may contribute to small differences in numbers and rates by specific variables between the linked file and the vital statistics mortality files.

In most cases, differences between numbers of infant deaths and infant mortality rates between the linked file and those computed from the vital statistics mortality file are negligible.

Methodology

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

1. State linked files for the identification of linked birth and infant death certificates; and
2. NCHS natality and mortality computerized statistical files, the source of computer records for the two linked certificates.

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

The NCHS natality and mortality files, produced annually, include statistical data from birth and death certificates that are provided to NCHS by States under the Vital Statistics Cooperative

Program (VSCP). The data have been coded according to uniform coding specifications, have passed rigid quality control standards, have been edited and reviewed, and are the basis for official U.S. birth and death statistics.

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

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

Characteristics of Unlinked File

For the 2000 linked file, 1.4% 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 2000 linked file includes 27,622 linked infant death records and 384 unlinked infant death records. 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 28,006. While the overall percent linked for infant deaths in the 2000 file is 98.6%, 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 occurrence of death. While most States link a high percentage of infant deaths, linkage rates for some States are well below the national average. Note in particular the percent linked for Maine (95.6%), New Jersey (95.6%), New Mexico (93.2%), Ohio (95.2%), and Oklahoma (91.9%). When a high percentage of deaths remain unlinked, unweighted infant mortality rates computed for these States are underestimated. It is for this reason that weights were added to the file to correct for biases in the data due to poor data linkage for particular states.

A slightly higher percentage of postneonatal (28 days to under 1 year) than neonatal (less than 28 days) deaths were linked (99.0% and 98.5%, respectively). Variations in percent linked by underlying cause of death have also been noted (data not shown). While the weighting protocol has been designed to correct for possible bias due to variations in match rates by characteristics, no statistical method can correct perfectly for data limitations. Therefore, variations in the percent of records linked should be taken into consideration when comparing infant mortality rates by detailed characteristics.

Geographic classification

Geographic codes in this data set are based on the results of the 1990 census. Because of confidentiality concerns, only those counties and cities with a population size of 250,000 or more are separately identified in this data set. Users should refer to the geographic code outline in this document for the list of available areas and codes.

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

Table 1. Percent of infant deaths linked by state of occurrence of death: United States, 2000 linked file

United States	98.6%	Nebraska	100.0%
Alabama	100.0%	Nevada	98.9%
Alaska	100.0%	New Hampshire	100.0%
Arizona	99.3%	New Jersey	95.6%
Arkansas	100.0%	New Mexico	93.2%
California	98.0%	New York State	98.6%
Colorado	100.0%	New York City	99.6%
Connecticut	100.0%	North Carolina	99.5%
Delaware	97.8%	North Dakota	100.0%
District of Columbia	96.5%	Ohio	95.2%
Florida	99.9%	Oklahoma	91.9%
Georgia	100.0%	Oregon	100.0%
Hawaii	96.4%	Pennsylvania	99.9%
Idaho	100.0%	Rhode Island	98.9%
Illinois	99.3%	South Carolina	100.0%
Indiana	98.2%	South Dakota	100.0%
Iowa	100.0%	Tennessee	100.0%
Kansas	96.2%	Texas	96.7%
Kentucky	99.2%	Utah	97.5%
Louisiana	97.3%	Vermont	100.0%
Maine	95.6%	Virginia	98.9%
Maryland	99.6%	Washington	99.8%
Massachusetts	98.7%	West Virginia	99.4%
Michigan	99.8%	Wisconsin	100.0%
Minnesota	99.7%	Wyoming	100.0%
Mississippi	99.8%	Puerto Rico	98.8%
Missouri	99.7%	Virgin Islands	100.0%
Montana	100.0%	Guam	100.0%

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. These documents, while not absolutely essential to the proper interpretation of the data for a number of general applications, should nevertheless be studied carefully prior to any detailed analysis of demographic or medical 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. Volumes 1, 2 and 3 of the ICD-10 may be purchased from the World Health Organization (WHO) Publication Center USA, 49 Sheridan Avenue, Albany, New York, 12210 (<http://www.who.int/whosis/icd10/index.html>). Many of the instruction manuals listed below are available electronically on the NCHS website at:

<http://www.cdc.gov/nchs/about/major/dvs/im.htm>. In addition, users who do not already have access to these documents may request them from the Chief, Mortality Medical Classification Branch, Division of Vital Statistics, National Center for Health Statistics, 4105 Hopson Road, Research Triangle Park, North Carolina 27709. The technical appendices for natality and mortality included in this document also provide information on the source of data, coding procedures, quality of the data, etc.

- A. National Center for Health Statistics. Vital statistics, Instructions for Classifying the Underlying Cause-of-Death, 2000. NCHS Instruction Manual, Part 2a. Hyattsville, Maryland: Public Health Service.
- B. National Center for Health Statistics. Vital statistics, Instructions for Classifying Multiple Cause-of-Death, 2000. NCHS Instruction Manual, Part 2b. Hyattsville, Maryland: Public Health Service.
- C. National Center for Health Statistics. Vital statistics, ICD-10 ACME Decision Tables for Classifying Underlying Causes-of-Death, 2000. NCHS Instruction Manual, Part 2c. Hyattsville, Maryland: Public Health Service.
- D. National Center for Health Statistics. Vital statistics, NCHS Procedures for Mortality Medical Data System File Preparation and Maintenance, Effective 2000. NCHS Instruction Manual, Part 2d. Hyattsville, Maryland: Public Health Service.
- E. National Center for Health Statistics. Vital statistics, ICD-10 TRANSAX Disease Reference Tables for Classifying Multiple Causes-of-Death, 1999. NCHS Instruction Manual, Part 2f. Hyattsville, Maryland: Public Health Service.
- F. National Center for Health Statistics. Vital statistics, Classification and Coding Instructions for Live Birth Records, 1999. NCHS Instruction Manual, Part 3a. Hyattsville, Maryland: Public Health Service.
- G. National Center for Health Statistics. Vital statistics, Demographic Classification and Coding Instructions for Death Records, 2000. NCHS Instruction Manual, Part 4. Hyattsville, Maryland: Public Health Service.
- H. National Center for Health Statistics. Vital statistics, Computer Edits for Natality Data, Effective 1993. NCHS Instruction Manual Part 12. Hyattsville, Maryland: Public Health Service.
- I. National Center for Health Statistics. Vital statistics, Computer Edits for Mortality Data, Effective 1999. NCHS Instruction Manual Part 11. Hyattsville, Maryland: Public Health Service.

Change in Cause-of-Death Classification

In data year 1999, a new classification system for coding causes of death was implemented in the United States: the Tenth Revision of the International Classification of Diseases (ICD-10), developed by the World Health Organization (WHO). Information about the new system can be obtained at the following address: <http://www.cdc.gov/nchs/about/major/dvs/icd10des.htm>

Underlying Cause of Death Data

Mortality statistics by cause of death are compiled from entries on the medical certification portion of the death certificate. The U.S. Standard Certificate of Death is shown in the Mortality Technical Appendix which is included in this documentation. Causes of death include “all those diseases, morbid conditions or injuries which either resulted in or contributed to death and the circumstances of the accident or violence which produced these injuries”. The medical certification of death is divided into two sections. In Part I, the physician is asked to provide the causal chain of morbid conditions that led to death, beginning with the condition most proximate to death on line (a) and working backwards to the initiating condition. The lines (a) through (d) in Part I are connected by the phrase “due to, or as a consequence of.” They were designed to encourage the physician to provide the causally related sequence of medical conditions that resulted in death. Thus, the condition on line (a) should be due to the condition on line (b), and the condition on line (b) should be a consequence of the condition on line (c), etc., until the full sequence is described back to the originating or initiating condition. If only one step in the chain of morbid events is recorded, a single entry on line (a) is adequate. Part I of the medical certification is designed to facilitate the selection of the underlying cause of death when two or more causes are recorded on the certificate. The underlying cause of death is defined by the WHO in the ICD-10 as “(a) the disease or injury which initiated the chain of morbid events leading directly to death, or (b) the circumstances of the accident or violence that produced the fatal injury” and is generally considered the most useful cause from a public health standpoint. Part II of the cause-of-death section of the death certificate solicits other conditions that the certifier believed contributed to death, but were not in the causal chain. While some details of the death certificate vary by State, all States use the same general format for medical certification outlined in the U.S. Standard Certificate. The U.S. Standard Certificate, in turn, closely follows the format recommended by the WHO.

If the death certificate is properly completed, the disease or condition listed on the lowest used line in Part I is usually accepted as the underlying cause of death. This is an application of “The General Principle.” The General Principle is applied unless it is highly improbable that the condition on the lowest line used could have given rise to all of the diseases or conditions listed above it. In some cases, the sequence of morbid events entered on the death certificate is not specified correctly. A variety of errors may occur in completing the medical certification of death. Common problems include the following: The causal chain may be listed in reverse order; the distinction between Part I and Part II may have been ignored so that the causal sequence in Part I is simply extended unbroken into Part II; or the reported underlying cause is unlikely, in an etiological sense, to have caused the condition listed above it. In addition,

sometimes the certifier attributes the death to uninformative causes such as cardiac arrest or pulmonary arrest.

To resolve the problems of incorrect or implausible cause-of-death statements, the WHO designed standardized rules to select an underlying cause of death from the information available on the death certificate that is most informative from a public health perspective. The rules for the Tenth Revision as updated by WHO since the publication of ICD-10 are described in NCHS instruction manual Part 2A. Coding rules beyond the General Principle are invoked if the cause-of-death section is completed incorrectly or if their application can improve the specificity and characterization of the cause of death in a manner consistent with the ICD. The rules are applied in two steps: selection of a tentative underlying cause of death, and modification of the tentative underlying cause in view of the other conditions reported on the certificate in either Part I or Part II. Modification involves several considerations by the medical coder: determining whether conditions in Part II could have given rise to the underlying cause, giving preference to specific terms over generalized terms, and creating linkages of conditions that are consistent with the terminology of the ICD.

For a given death, the underlying cause is selected from the condition or conditions recorded by the certifier in the cause-of-death section of the death certificate. NCHS is bound by international agreement to make the selection of the underlying cause through the use of the ICD-10 classification structure, and the selection and modification rules contained in this revision of the ICD. These rules are contained in a computer software program called ACME (Automated Classification of Medical Entities). ACME does exactly what a coder would do to select the underlying cause of death. The ACME program has been used for final mortality data since 1968.

The WHO selection rules take into account the certifier's ordering of conditions and their causal relationships to systematically identify the underlying cause of death. The intent of these rules is to improve the usefulness of mortality statistics by giving preference to certain classification categories over others and consolidating two or more conditions on the certificate into a single classification category.

Multiple Cause of Death Data

The limitations of the underlying cause concept and the need for more comprehensive data suggested the need for coding and tabulating all conditions listed on the death certificate. Coding all listed conditions on the death certificate was designed with two objectives in mind. First, to facilitate studies of the relationships among conditions reported on the death certificate, which require presenting each condition and its location on the death certificate in the exact manner given by the certifier. Secondly, the coding needed to be carried out in a manner by which the underlying cause-of-death could be assigned using the WHO coding rules. Thus, the approach in developing multiple cause data was to provide two fields: 1) entity axis and 2) record axis. For entity axis, NCHS suspends the provisions of the ICD that create linkages

between conditions for the purpose of coding each individual condition, or entity, with minimum regard to other conditions present on the death certificate.

Record axis is designed for 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 death certificate and modified or linked to such conditions as provided by ICD-10. By definition, the entity data cannot meet this requirement since the linkage provisions modify the character and placement of the information originally recorded by the certifier. Essentially, the axis of the classification has been converted from a entity basis to a record (or person) basis. The record axis codes are assigned in terms of the set of codes that best describe the overall medical certification portion of the death certificate.

This translation is accomplished by a computer system called TRANSAX (Translation of Axis). TRANSAX selectively uses the 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 that are free of contradictions and are the most precise within the constraints of ICD-10 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-10 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 K74.6 (Other and unspecified cirrhosis of liver) and F10.2 (Mental and behavioral disorders due to use of alcohol; dependence syndrome), respectively. Tabulation of records with K74.6 would imply that such records had no mention of alcohol. A preferable code would be K70.3 (Alcoholic cirrhosis of liver) in lieu of both K74.6 and F10.2.
- Case 2: If “gastric ulcer” and “bleeding gastric ulcer” are reported on a record they are coded to K25.9 (Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation) and K25.4 (Gastric ulcer, chronic or unspecified with hemorrhage), respectively. A more concise code is K25.4 which 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 data file. The following paragraphs describe the format and application of entity axis data.

1. 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 death 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 death certificate.
2. Position indicator: The next byte indicates the position of the code on the line, i.e., it is the first (1), second (2), third (3) eighth (8) code on the line.
3. Cause category: The next four bytes represent the ICD-10 cause code.
4. The last byte is blank.

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.

2. 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 NCHS Instruction Manual Part 11.

3. Entity Axis Applications. The entity axis multiple cause data file is appropriate for analyses that 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 death certificate. Within this framework, the entity data are appropriate to examine relationships among conditions and the validity of traditional assumptions in underlying cause selection. Additionally, the entity data provide in certain categories a more detailed code assignment that could be excluded in creating record axis data. Where such detail is needed for a study, the user should use entity data. Finally, the researcher may not wish to be bound by the assumptions used in the axis translation process.

The main limitation of entity axis data is that it 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 K80.2 is titled “Calculus of gallbladder without cholecystitis.” Within the framework of

entity codes this is interpreted to mean that the codable entity itself contained no mention of cholecystitis rather than that cholecystitis was not mentioned anywhere on the record. Tabulation of records with a "K80.2" as a count of persons having Calculus of gallbladder without cholecystitis would therefore be erroneous. This illustrates the fact that under entity coding the ICD-10 titles cannot be taken literally. The user should study the rules for entity coding as they relate to his/her research prior to use of entity data. The user is further cautioned that the inclusion notes in ICD-10 that relate to modifying and combining categories are seldom applicable to entity coding (except where provided NCHS Instruction Manual Part 2b).

In tabulating the entity axis data, one may count codes with an individual code representing the number of times the condition(s) appears in the file. In this kind of tabulation of morbid conditions, 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 Instruction Manual Series (ICD-10 TRANSAX Disease Reference Tables for classifying Multiple Causes-of-Death) describes the TRANSAX process for creating record axis data from entity axis data.

1. 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-10 cause code.
2. The last byte is blank.

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.

2. 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.

3. Record Axis Applications. The record axis multiple cause data are the basis for NCHS core multiple cause tabulations. Location of codes is not relevant to this data, 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-10 category. This is in contrast to the entity code which is assigned each time such a disease is reported on different lines of the certification. Secondly, the linkage implies that within the constraints of ICD-10 the most meaningful code has been assigned. The translation process creates for the user a data file that 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. 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-10 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-10 are used. (NCHS Instruction Manual Part 2f).

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 that combine individual cause categories must take into account the possible interaction of up to 20 codes on a single certificate.

Additional Information

In using the NCHS multiple cause data files, the user is urged to review the information in this document and its references. The instructional material does change from year to year and ICD revision to ICD revision. The user is cautioned that coding of specific ICD-10 categories should be checked in the appropriate instruction manual. What may appear on the surface to be the correct code by ICD-10 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 NCHS Instruction Manual Part 2f and its attachments will probably provide the necessary information to make a decision. It allows the user to determine the extent of the trade-offs between the two sets of data in terms of specific categories and the assumption of axis translation. In certain situations, a combination of entity and record axis data may be the more appropriate alternative.

2000 Period Linked Birth/Infant Death Data Set

Data File Characteristics:

The data were processed using the SAS language on an IBM 9672.
The data are recorded in IBM/EBCDIC 8-bit code for each character.
Codes may be numeric, alphabets, or blank.
The record type is blocked, fixed format.
The last block for the data year may be a short block.

I. Denominator File:

United States Data Set

A. File Organization:	One file, multiple tapes
B. Record count:	4,063,892
C. Record length:	210
D. Blocksize:	32130
E. Data counts:	a. By occurrence: 4,063,892
	b. By residence: 4,058,882
	c. To foreign residents: 5,010

Territories Data Set

A. File Organization:	One file, one tape
B. Record count:	64,933
C. Record length:	210
D. Blocksize:	32130

Puerto Rico

Data counts:	a. By occurrence: 59,460
	b. By occurrence and residence: 59,329
	c. To foreign residents: 131

Virgin Islands

Data counts:	a. By occurrence: 1,685
	b. By occurrence and residence: 1,543
	c. To foreign residents: 142

Guam

Data counts:	a. By occurrence: 3,788
	b. By occurrence and residence: 3,766
	c. To foreign residents: 22

1999 Period Linked Birth/Infant Death Data Set

II. Numerator File:

United States Data Set

A. File Organization:	One of multiple files on a tape
B. Record count:	27,622
C. Record length:	535
D. Blocksize:	32635
E. Data counts:	a. By occurrence: 27,622
	b. By residence: 27,593
	c. To foreign residents: 29

Possessions Data Set

A. File Organization:	one of multiple files on a tape
B. Record count:	613
C. Record length:	535
D. Blocksize:	32635

Puerto Rico

Data counts:	a. By occurrence: 576
	b. By occurrence and residence: 571
	c. To foreign residents: 5

Virgin Islands

Data counts:	a. By occurrence: 14
	b. By occurrence and residence: 14
	c. To foreign residents: 0

Guam

Data counts:	a. By occurrence: 23
	b. By occurrence and residence: 23
	c. To foreign residents: 0

1999 Period Linked Birth/Infant Death Data Set

III. Unlinked File:

United States Data Set

A. File Organization:	one file of multiple files on a tape	
B. Record count:	384	
C. Record length:	535	
D. Blocksize:	32635	
E. Data counts:	a. By occurrence:	384
	b. By residence:	379
	c. To foreign residents:	5

Possessions Data Set

A. File Organization:	one file of multiple files on a tape	
B. Record count:	7	
C. Record length:	535	
D. Blocksize:	32635	

Puerto Rico

Data counts:	a. By occurrence:	7
	b. By occurrence and residence:	2
	c. To foreign residents:	5

Virgin Islands

Data counts:	a. By occurrence:	0
	b. By occurrence and residence:	0
	c. To foreign residents:	0

Guam

Data counts:	a. By occurrence:	0
	b. By occurrence and residence:	0
	c. To foreign residents:	0

Denominator Record and Natality Section of Numerator (Linked) Record

Locations 7-210 of the linked file contain data from the Birth Certificate.

Locations 211-535 of linked file contain data from the Death Certificate.

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

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
1-6	6	<u>R0</u> <u>Reserved Positions</u>
7-10	4	<u>BIRYR</u> <u>Year of Birth</u> 1999 ... Born in 1999 (This code valid for numerator (linked) file only). 2000 ... Born in 2000
11	1	<u>RESSTATB</u> <u>Resident Status - Birth</u> <u>United States Occurrence</u> 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. <u>Puerto Rico Occurrence</u> 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. <u>Virgin Islands Occurrence</u> 1 ... RESIDENTS: State and county of occurrence and residence are the same. 2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different. 4 ... FOREIGN RESIDENTS: Occurred in the Virgin Islands to a resident of any other place. <u>Guam Occurrence</u> 1 ... RESIDENTS: Occurred in Guam to a resident of Guam or to a resident of the U.S. 4 ... FOREIGN RESIDENTS: Occurred in Guam to a resident of any place other than Guam or the U.S.

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</u>

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

United States Occurrence

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

2000
Denominator Record and Natality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>
12-13	2

Variable Name,
Item and Code Outline

BRSTATE
Expanded State of Residence - NCHS Codes - Birth (Cont'd)

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

United States Occurrence

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.

Guam Occurrence

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

FIPSOCCB

Federal Information Processing Standards
(FIPS) Geographic Codes (Occurrence) - Birth

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

2000
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>
14-15	2	<u>STOCCFIPB</u> <u>State of Occurrence (FIPS) - Birth</u>
		<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
		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

2000
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>
14-15	2	<p><u>STOCCFIPB</u> <u>State of Occurrence (FIPS) - Birth (Cont'd)</u></p> <p><u>United States</u></p> <p>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>
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>

2000
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>
19-20	2	<p><u>STRESFIPB</u> <u>State of Residence (FIPS) - Birth</u></p> <p><u>United States Occurrence</u></p> <p>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 45 ... South Carolina 46 ... South Dakota 47 ... Tennessee</p>

2000
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>																																													
19-20	2	<p><u>STRESFIPB</u> <u>State of Residence (FIPS) - Birth Cont'd</u></p> <p><u>United States Occurrence</u></p> <table border="0"> <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>00-56,66,78</td><td>...</td><td>Foreign Residents: Refer to U.S. for specific code structure</td></tr> <tr><td>72</td><td>...</td><td>Puerto Rico</td></tr> </table> <p><u>Virgin Islands Occurrence</u></p> <table border="0"> <tr><td>00-56,66,72</td><td>...</td><td>Foreign Residents: Refer to U.S. for specific code structure</td></tr> <tr><td>78</td><td>...</td><td>Virgin Islands</td></tr> </table> <p><u>Guam Occurrence</u></p> <table border="0"> <tr><td>00,72,78</td><td>...</td><td>Foreign Residents: Refer to U.S. for specific code structure</td></tr> <tr><td>01-56</td><td>...</td><td>U.S. Resident is also considered a resident of Guam. Refer to U.S. for specific code structure</td></tr> <tr><td>66</td><td>...</td><td>Guam</td></tr> </table>	48	...	Texas	49	...	Utah	50	...	Vermont	51	...	Virginia	53	...	Washington	54	...	West Virginia	55	...	Wisconsin	56	...	Wyoming	00-56,66,78	...	Foreign Residents: Refer to U.S. for specific code structure	72	...	Puerto Rico	00-56,66,72	...	Foreign Residents: Refer to U.S. for specific code structure	78	...	Virgin Islands	00,72,78	...	Foreign Residents: Refer to U.S. for specific code structure	01-56	...	U.S. Resident is also considered a resident of Guam. Refer to U.S. for specific code structure	66	...	Guam
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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																																				
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2000
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 10-54 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>MAGER9</u> <u>Age of Mother Recode 9</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 - 49 years 9 ... 50 - 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>

2000
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															
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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																																	
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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>

2000
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 border="0"> <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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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 border="0"> <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 border="0"> <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 border="0"> <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 border="0"> <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

2000
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 (Cont'd)</u></p> <table border="0"> <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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54	...	Guam																														
55	...	Canada																														
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="0"> <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="0"> <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="0"> <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="0"> <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 border="1"> <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																																	
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07	...	7th month																																	
08	...	8th month																																	
09	...	9th month																																	
99	...	Unknown or not stated																																	
53	1	<p><u>MPRE5</u> <u>Month Prenatal Care Began Recode 5</u></p> <table border="1"> <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 border="1"> <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 border="1"> <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	<u>FRACE</u> <u>Race of Father</u>

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

United States Occurrence

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

Puerto Rico Occurrence

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

Virgin Islands Occurrence

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

2000
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 (Cont'd)</u></p> <p><u>Guam Occurrence</u></p> <table border="1"> <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>58</td><td>...</td><td>Guamanian</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	08	...	Other Asian or Pacific Islander	58	...	Guamanian	99	...	Unknown or not stated
01	...	White																														
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08	...	Other Asian or Pacific Islander																														
58	...	Guamanian																														
99	...	Unknown or not stated																														
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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9	...	Unknown or not stated																														
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												
1	...	Doctor of Medicine (M.D.)																														
2	...	Doctor of Osteopathy (D.O.)																														
3	...	Certified Nurse Midwife (C.N.M.)																														
4	...	Other Midwife																														
5	...	Other																														
9	...	Unknown or not stated																														
69	1	<p><u>R2</u> <u>Reserved position</u></p>																														
70	1	<p><u>GESTESTM</u> <u>Clinical Estimate of Gestation Used Flag</u></p> <p>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																								
Blank	...	Clinical Estimate is not used																														
1	...	Clinical Estimate is used																														

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>
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>Birthweight Imputation Flag</u></p> <p>Blank ... Birthweight is not imputed 1 ... Birthweight is imputed</p>
81-84	4	<p><u>DBIRWT</u> <u>Birthweight 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>Birthweight Recode 12 (Imputed)</u></p> <p>01 ... 499 grams or less 02 ... 500-999 grams 03 ... 1000-1499 grams 04 ... 1500-2000 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>Birthweight 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>

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>															
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															
4	...	Quadruplet															
5	...	Quintuplet or higher															
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			
1	...	The method was used															
2	...	The method was not used															
8	...	Method not on certificate															
9	...	Method unknown or not stated															
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>															

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>
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>

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>
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

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

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>																											
128	1	<p><u>WTGAIN9</u> <u>Weight Gain Recode</u></p> <table border="1"> <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
1	...	Less than 16 pounds																											
2	...	16-20 pounds																											
3	...	21-25 pounds																											
4	...	26-30 pounds																											
5	...	31-35 pounds																											
6	...	36-40 pounds																											
7	...	41-45 pounds																											
8	...	46 or more pounds																											
9	...	Unknown or not stated																											
129-136	8	<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="1"> <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															
1	...	Procedure reported																											
2	...	Procedure not reported																											
8	...	Procedure not on certificate																											
9	...	Procedure not classifiable																											
129	1	<p><u>OBFLAG</u> <u>Obstetric Flag</u></p> <table border="1"> <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.																					
Blank	...	One or more obstetric procedures coded, one, eight, or nine																											
2	...	No obstetric procedures reported. Each factor is coded a two.																											
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> <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> <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>

2000
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>FLGND</u> <u>Flag Indicating Records Included in Both Numerator and Denominator Files</u></p> <p>This variable is included in the denominator file only, and identifies a record which is also included in the numerator file. Please note that not all infant deaths in the numerator file are represented in the denominator file, because some of the infants who died in 2000 were born in 1999.</p> <p>1 ... Record also included in numerator file Blank ... Record not included in numerator file</p>

Here ends the Denominator file. Documentation for the Mortality Section of the Numerator (Linked) file begins on the next page.

2000
Mortality Section of Numerator (Linked) Record

Locations 211-535 contain data from the Death Certificate. Residence items in the Denominator Record and in the natality section of the Numerator (linked) Record refer to the usual place of residence of the Mother; whereas in the mortality section of the Numerator (linked) Record, these items refer to the place of residence of the Decedent.

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, 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>Place of Injury for Causes W00-Y34, except Y06.- and Y07.-</u></p> <p>0 ... Home 1 ... Residential institution 2 ... School, other institution and public administrative area 3 ... Sports and athletics area 4 ... Street and highway 5 ... Trade and service area 6 ... Industrial and construction area 7 ... Farm 8 ... Other Specified Places 9 ... Unspecified place Blank ... Causes other than W00-Y34, except Y06.- and Y07.-</p>
216-219	4	<p><u>UCOD</u> <u>ICD Code (10th Revision)</u></p> <p>See the <u>International Classification of Diseases, 1992 Revision, Volume 1.</u></p>

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>UCODR130</u> <u>130 Infant Cause Recode</u></p> <p>A recode of the ICD 10 cause codes into 130 groups for NCHS publications. Further back in this document is a complete list of recodes and the causes included.</p> <p>001-158 ... 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 records each year which cannot be linked to their corresponding birth certificates (see introduction to this tape documentation for further details). These weights are used to produce all NCHS linked file tables, including Documentation tables 1-5 included in this tape documentation. The general format for this record weight is the number one followed by a decimal point and six decimal places as follows:</p> <p>1.XXXXXX</p>

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", 1992 Revision, Volume 1. Both the entity-axis and record-axis conditions are coded according to this revision (10th).</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. The 7th position will be blank. 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 10th Revision)</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
298-304	7	6th Condition
305-311	7	7th Condition
312-318	7	8th Condition

2000
Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
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. The 5th position will be blank. Records that do not have 20 conditions are blank in the unused area. Positions 1-4: Condition code (ICD 10th Revision)
405-409	5	1st Condition
410-414	5	2nd Condition
415-419	5	3rd Condition
420-424	5	4th Condition

2000
Mortality Section of Numerator (Linked) Record

<u>Item Location</u>	<u>Item Length</u>	<u>Variable Name, Item and Code Outline</u>
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	<u>RESSTATD</u> <u>Resident Status - Death</u> <u>United States Occurrence</u> 1 ... RESIDENTS: State and county of occurrence and residence are the same. 2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different. 3 ... INTERSTATE NONRESIDENTS: State of occurrence and residence are different, but both are in the 50 States and D.C. 4 ... FOREIGN RESIDENTS: State of occurrence is one of the 50 States or the District of Columbia, but place of residence is outside of the 50 States and D.C.

2000
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 (Cont'd)</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>

2000
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 (Cont'd)</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.

2000
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 (Cont'd)</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 (Cont'd)</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> <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> </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
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2000
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 (Cont'd)</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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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>2000 ... Death occurred in 2000</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>R9</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> <p>1 ... Sunday 2 ... Monday 3 ... Tuesday 4 ... Wednesday 5 ... Thursday 6 ... Friday 7 ... Saturday 9 ... Unknown</p>
533-535	3	<p><u>R10</u> <u>Reserved positions</u></p>