

**Public Use
Data File
Documentation**

2006 Period Linked Birth/Infant Death Data Set

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2006 Period Linked Birth/Infant Death Data Set

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Introduction

The linked birth/infant death data set (linked file) is released in two formats - period data and birth cohort data. This documentation is for the 2006 period linked file. Differences between period and birth cohort data are outlined below.

Period data - The numerator for the 2006 period linked file consists of all infant deaths occurring in 2006 linked to their corresponding birth certificates, whether the birth occurred in 2005 or 2006. The denominator file for this data set is the 2006 natality file, that is, all births occurring in 2006. In addition, NCHS accepted a small number of late-filed birth certificates needed to link to infant deaths. This reduced the number of unlinked records and slightly increased the number of births in the denominator file.

Birth cohort data - The numerator for the 2006 birth cohort linked file consists of deaths to infants born in 2006 whether the death occurred in 2006 or 2007. The denominator file is the 2006 natality file, that is, all births occurring in 2006.

The 2006 period linked birth/infant death data set includes several data files. The first file includes all US infant deaths which occurred in the 2006 data year linked to their corresponding birth certificates, whether the birth occurred in 2005 or 2006 - 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 2006 NCHS natality file for the US (plus late-filed records mentioned above), 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.

1989 and 2003 Revisions of the U.S. Standard Certificate of Live Birth and Certificate of Death

This data file includes data based on both the 1989 Revision of the U.S. Standard Certificate of Live Birth (unrevised) and the 2003 revision of the U.S. Standard Certificate of Live Birth (revised). The 2003 revision is described in detail elsewhere. (See the 2003 Revision website at: http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm . Nineteen states, California (partial revision), Delaware, Florida, Idaho, Kansas, Kentucky, Nebraska, New Hampshire, New York (excluding New York City), North Dakota, Ohio, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Vermont, Washington and Wyoming and Puerto Rico, implemented the 2003 revision on or before January 1, 2006. Where comparable, revised data are combined with data from the remaining reporting areas. (Revised data are denoted by "R;" unrevised data are denoted by "U" in the "Rev" column of the documentation.) Where data for the 1989 and 2003 certificate revisions are not comparable (e.g., educational attainment of the mother), unrevised and revised data are given in separate fields in the data file.

This file includes data for twenty-one states (California, Connecticut, Florida, Idaho, Kansas, Michigan, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New

York, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Washington, and Wyoming) and the District of Columbia, which implemented the 2003 revision of the U.S. Standard Certificate of Death as of January 1, 2006. Data from all other areas are based on the 1989 revision. Most of the variables from the death certificate in this file are comparable despite changes to item wording and format in the 2003 revision. See more about the 2003 Revision at: http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm .

Incomplete National Reporting - Using Reporting Flags

As a result of the delayed, phased transition to the 2003 U.S. Standard Certificate of Live Birth, the 2006 linked file includes data for reporting areas that use the 2003 revision of the U.S. Standard Certificate of Live Birth (revised) and data for reporting areas that use the 1989 Standard Certificate of Live Birth (unrevised). Although many data items are comparable across certificate revisions and are available for the entire United States, many items have more limited reporting areas. In addition, the 2006 linked file contains information on infants born in both 2005 and 2006 (see description of the period linked file above). As reporting areas changed between 2005 and 2006, this complicates the file. Also, birth data are collected by place of occurrence but are typically tabulated by mother's place of residence. Reporting flags were developed to help the user more readily identify reporting areas for items with less than national reporting for the entirety of 2005 and 2006. Reporting flags are included in the file to assist in accurately excluding records from non-reporting areas when tabulating data by mother's place of residence. Reporting flags are available for most items on the file.

Reporting areas for the 2006 linked file are different from those for the 2006 birth file, as items had to be reported by a state in both 2005 and 2006 to be able to provide complete data. Thus, data for non-comparable items from states that revised in 2006 are excluded from all tabulations. Positions for reporting flags are noted along with each data item in the file layout. Reporting flags must be invoked to generate accurate numbers by residence for items which are not reported by all states. Where applicable, reporting flags are shown in the column "Reporting Flag Position" in the file layout. Reporting flag codes are "0" (item reported in neither the current or previous year), 1 (item reported in both current and previous year), 2 (item reported in the previous but not in the current year), and 3 (item reported in the current but not in the previous year). When using these data, select reporting flag=1 to get valid and complete data for an item (see SAS code examples below).

Translating "blanks" - In the 2006 linked file, for data items which are not common or comparable across certificate revisions, events to residents of a revised state occurring in an unrevised state, and events to residents in an unrevised state occurring in a revised state, are represented by "blanks." Blanks should be treated as "unknowns" for tabulations.

The correct use of reporting flags and translation of blanks will result in an accurate tally of births and infant deaths for items with incomplete national reporting.

Example of SAS code using reporting flags (and translating blanks)

An example of SAS code that may be used to incorporate the correct use of reporting flags and the translation of blanks is shown below. This example is for the revised prenatal care item. Prenatal care data based on the revised certificate are not considered comparable to data based on the unrevised certificate. Accordingly, use of the reporting flag for this item will produce 2006 data for the month prenatal care began for the twelve revised states which had implemented the revised certificate by January 1st 2005. Data for states which implemented the revised certificates in 2006 are excluded, as part of their linked file births (those born in 2005) were reported on the unrevised certificate.

Sample SAS program

```
01 DATA work;
02     INFILE 'c:USnum.dat' LRECL=1259;
03     INPUT
04         restatus 138
05         precare 245-246
06         f_mpcb 668;
07
08     /*Exclude foreign residents*/
09     IF restatus NE 4;
10     /*Select reporting area*/
11     IF f_mpcb=1;
12     /*Convert blanks to unknown*/
13     IF precare=. THEN precare=99;
14
15 PROC FREQ;
16     TABLE precare;
17 RUN;
```

In this example, “restatus” is used to exclude births to foreign residents (this is standard practice for all NCHS tabulations). Also in this example, blanks are represented by numeric values SAS code = (.). However, for some items in the file, e.g., obstetric procedures, blanks are represented by character values for which the SAS code is empty single quotes (‘ ’).

Alternatives to the use of reporting flags - The use of reporting flags provides a relatively quick, accurate way to select records for all areas reporting comparable data for a given item in a particular year. However, should a limited reporting area be needed, specific state(s) of residence may also be selected, or unselected. This approach may be useful, for example, in trend analysis where reporting areas have changed over time. See Table A in the “Nativity Technical Appendix” for state-specific information on reporting areas. This approach may also be used to limit the reporting area to only states reporting multiple or single race data (see multiple race section below).

Example of SAS code using state of residence (and translating blanks)

```
01 DATA work;
02     INFILE 'c:USnum.dat' LRECL=1259;
03     INPUT
04         restatus 138
05         xmrstate $ 107-108
06         precare 245-246;
07
08     /*Exclude foreign residents*/
09     IF restatus NE 4;
10     /*Select reporting area*/
11     IF xmrstate in ('ID','KY','NY','PA','SC','TN','WA');
12     /*Convert blanks to unknown*/
13     IF precare=. THEN precare=99;
14
15 PROC FREQ;
16     TABLE precare;
17 RUN;
```

Single, Multiple, and Bridged Race

In 1997, the Office of Management and Budget (OMB) issued revised standards requiring Federal collection programs to allow respondents to select *one or more race categories*. In 2006 data, twenty-three areas reported multiple race data: California, Delaware, Florida, Hawaii, Idaho, Kansas, Kentucky, Michigan (for selected facilities only), Minnesota, Nebraska, New Hampshire, New York State (excluding New York City), North Dakota, Ohio, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Washington, and Wyoming. For the 2006 period linked file, complete data for both 2005 and 2006 births is available from 12 states: Florida, Idaho, Kansas, Kentucky, Nebraska, New Hampshire, New York State (excluding New York City), Pennsylvania, South Carolina, Tennessee, Texas, and Washington.

In 2005, multiple race data was reported for the entire year on the death certificates of 21 states: California, Connecticut, Florida, Hawaii, Idaho, Kansas, Maine, Michigan, Minnesota, Montana, Nebraska, New Hampshire, New Jersey, New York, Oklahoma, South Carolina, South Dakota, Utah, Washington, Wisconsin, and Wyoming. In order to provide uniformity and comparability of the data before all or most of the data are available in the new multiple-race format, it was necessary to “bridge” the responses of those for whom more than one race was reported (multiple race) to one, single race. See the “Technical Notes” of “Births: Final Data for 2006” and “Deaths: Final Data for 2006”.

Weighting

Beginning with the 1995 linked file, a weight was added to the linked numerator file to correct in part for biases in percent of records linked by major characteristics (see section below on Percent of records linked). 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 (<7 days, 7-27 days, 28 days-1 year). Thus, weights are 1.0 for states which link all of their infant deaths. The denominator file is not weighted. Weights are not computed for the Puerto Rico, Virgin Islands, and Guam file.

Birthweight

Beginning with the 1995 linked file, an imputation for not-stated birthweight was 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 3.10 to 0.54 in the numerator file, and from 0.11 to 0.03 in the denominator file, thus greatly reducing the potential for underestimation when computing birthweight-specific infant mortality rates.

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. Differences in numbers of infant deaths between the two data sources are primarily due to geographic coverage differences. For the vital statistics mortality file, all deaths occurring in the 50 states and the District of Columbia are included regardless of the place of birth of the infant. In contrast, to be included in the linked file, both the birth and death must occur in the 50 states and the District of Columbia. Also, although every effort has been made to design weights that will accurately reflect the distribution of deaths by characteristics, weighting may contribute to small differences in numbers and rates by specific variables between these two data sets. 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 Appendix and Final Reports included in this document.

Characteristics of Unlinked File

For the 2006 linked file 1.3% 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, locations reserved for information from the matching birth certificate are blank since no matching birth certificate could be found for these records. The sex field 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 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 Race and Hispanic origin in "Deaths: Final Data for 2006" 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.

Percent of Records Linked

The 2006 linked file for the 50 States and D.C. includes 28,174 linked infant death records and 366 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 28,540. While the overall percent linked for infant deaths in the 2006 file is 98.7%, there are differences in percent linked by certain variables. These differences have important implications for how the data is analyzed.

Table 1 below shows the percent of infant deaths linked by state of occurrence of death. While many states link all of their infant deaths, linkage rates for some states are below the national average. Note in particular the percent linked for Alaska (95.8), California (96.3), Louisiana (93.3), New Mexico (97.9), Ohio (97.9), and Texas (96.5). 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.

Table 1. Percent of infant deaths linked by state of occurrence of death: United States, 2006 linked file

United States	98.7	Nebraska	99.4
Alabama	99.8	Nevada	99.6
Alaska	95.8	New Hampshire	100.0
Arizona	99.4	New Jersey	98.9
Arkansas	99.7	New Mexico	97.9
California	96.3	New York State	98.4
Colorado	99.5	New York City	99.7
Connecticut	100.0	North Carolina	99.8
Delaware	99.0	North Dakota	100.0
District of Columbia	100.0	Ohio	97.9
Florida	99.3	Oklahoma	100.0
Georgia	99.8	Oregon	99.7
Hawaii	100.0	Pennsylvania	98.9
Idaho	100.0	Rhode Island	100.0
Illinois	99.0	South Carolina	99.0
Indiana	99.1	South Dakota	100.0
Iowa	99.5	Tennessee	100.0
Kansas	100.0	Texas	96.5
Kentucky	98.9	Utah	99.0
Louisiana	93.3	Vermont	100.0

Maine	100.0	Virginia	100.0
Maryland	100.0	Washington	100.0
Massachusetts	100.0	West Virginia	100.0
Michigan	100.0	Wisconsin	100.0
Minnesota	100.0	Wyoming	100.0
Mississippi	99.5	Puerto Rico	99.8
Missouri	99.6	Virgin Islands	100.0
Montana	100.0	Guam	100.0

In general, a slightly higher percentage of postneonatal (28 days to under 1 year) than neonatal (less than 28 days) deaths were linked (99.1 and 98.5, respectively.) 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, slight variations in the percent of records linked should be taken into consideration when comparing infant mortality rates by detailed characteristics.

Confidentiality

To minimize the risk of disclosure of individual or institutional information NCHS public-use data files do not contain the actual day of the birth or the dates of birth of the mother or father. Also, for public-use files, no U.S. geographic detail is identified.

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, P.O. Box 12214, Research Triangle Park, North Carolina 27709. The technical appendix for natality and the mortality final report for 2004 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, 2008. 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, 2008. 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, 2008. NCHS Instruction Manual, Part 2c. Hyattsville, Maryland: Public Health Service.
- D. National Center for Health Statistics. Specifications for U.S. Standard Certificate of Birth – 2003 Revision.
- E. National Center for Health Statistics. Specifications for U.S. Standard Certificate of Death – 2003 Revision.
- F. National Center for Health Statistics. Vital statistics, Computer Edits for Natality Data, Effective 1993. NCHS Instruction Manual Part 12. Hyattsville, Maryland: Public Health Service.
- G. National Center for Health Statistics. Vital statistics, Computer Edits for Mortality Data, Effective 2007. NCHS Instruction Manual Part 11. Hyattsville, Maryland: Public Health Service.

Instructions manuals are available at: <http://www.cdc.gov/nchs/about/major/dvs/im.htm>

Also see: http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm for the most recent information about revised certificates.

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.

In addition to changes due to the implementation of a new ICD revision, rules for coding a cause of death may occasionally require modification at other times, when evidence suggests that such modifications will improve the quality of cause-of-death data. These changes may affect comparability of data between years for select causes of death. For example, the large decrease in infant deaths from Birth asphyxia (ICD-10 code P21) is largely due to the introduction of a new ICD-10 code P91.6 Hypoxic ischemic encephalopathy of newborn and resulting coding rule change. Many deaths which would have previously been assigned to P21 were instead assigned to P91.6. Also, the decrease in infant deaths from Congenital malformations of respiratory system (Q30-34) was largely due to coding changes recommended by WHO that resulted in fewer deaths being assigned to Q33.6, Hypoplasia and dysplasia of lung.

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 an entity basis to a record (or person) basis. The record axis codes are assigned in terms of the set of codes that best describe the overall medical certification portion of the death certificate.

This translation is accomplished by a computer system called TRANSAX (Translation of Axis). 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.

2006 Period Linked Birth/Infant Death Data Set

Numerator Files:

United States

A. Record count:	28,174
B. Record length:	1,259
C. Data counts:	a. By occurrence: 28,174 b. By residence: 28,144 c. To foreign residents: 30

Territories

A. Record count:	480
B. Record length:	1,259

Denominator Files:

United States

A. Record count:	4,273,264
B. Record length:	868
C. Data counts:	a. By occurrence: 4,273,264 b. By residence: 4,265,593 c. To foreign residents: 7,671

Territories

A. Record count:	53,920
B. Record length:	868

Unlinked Files:

United States

A. Record count:	366
B. Record length:	1,259

Territories

A. Record count:	1
B. Record length:	1,259

Linked 2006 Data Elements and Locations

Data Items	Denominator File	Numerator File		Unlinked File
		Birth	Death	
General				
Year of birth	15-18	15-18	--	15-18*
Year of death	--	--	1188-91	1188-91
Resident status	138	138	1151	1151
Record weight	--	893	--	--
Flag indicating records included in both numerator and denominator	868	868	--	--
Infant				
Age at death	--	--	872-77	872-77+
Race	--	--	--	139-44*
Sex	436	436	--	436*
Gestation	451-57	451-57	--	--
Birthweight	467-73	467-73	--	--
Plurality	423	423	--	--
Apgar score	415-17	415-17	--	--
Day of week, birth/death	29	29	1187	1187
Month, birth/death	19-20	19-20	1258-59	1258-59
Mother				
Age	89-93	89-93	--	--
Race	139-44	139-44	--	--
Education	155-58	155-58	--	--
Marital status	153	153	--	--
Hispanic origin	148-49	148-49	--	--
Father				
Age	182-87	182-87	--	--
Race	188-91, 199-200	188-91, 199-200	--	--
Hispanic origin	195-96	195-96	--	--
Pregnancy items				
Month pre-care began	245-47, 256-59	245-47, 256-59	--	--

Number prenatal visits	270-73	270-73	--	--
Live birth order	212	212	--	--
Total birth order	217	217	--	--
Month of last live birth	220-21	220-21	--	--
Year of last live birth	222-25	222-25	--	--
Medical and health data				
Method of delivery	390-403	390-403	--	--
Medical risk factors	313-19, 328-44	313-19, 328-44	--	--
Tobacco	284-94	284-94	--	--
Alcohol	295-98	295-98	--	--
Weight gain during preg	276-78	276-78	--	--
Obstetric procedures	351-61	351-61	--	--
Complications / Characteristics of L/D	365-89	365-89	--	--
Abnormal conditions	476-91	476-91	--	--
Congenital anomalies	492-525	492-525	--	--
Underlying cause, death	--	--	884-87	884-87
130 infant cause recode	--	--	889-91	889-91
Multiple conditions	--	--	903-1148	903-1148
Other items				
Residence reporting				
Flags	569-773	569-773	--	--
Late record flag	9	9	--	--
Place of birth	42,59	42,59	--	--
Attendant at birth	410	410	--	--
Place of death and decedent's status	--	--	1186	1186
Place of injury	--	--	882	882
Manner of death	--	--	878	878
Method of disposition	--	--	879	879
Autopsy	--	--	880	880

* For the unlinked file, these items are from the death certificate.

+ For the unlinked file, date of birth as reported on the death certificate is used to generate age at death.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
1-6	6	FILLER	Filler				
7	1	REVISION	Revision		U,R	R	State used the 2003 version of the US Standard Birth Certificate (Revised)
						U	State used the 1989 version of the US Standard Birth Certificate (Unrevised)
8	1	FILLER	Filler				
9	1	LATEREC	Late Record Flag		U,R	0	Not late record
						1	Late record
						2	Late Vermont record
10-14	5	FILLER	Filler				
15-18	4	DOB_YY	Birth Year		U,R	2005	2005
						2006	2006
19-20	2	DOB_MM	Birth Month		U,R	01	January
						02	February
						03	March
						04	April
						05	May
						06	June
						07	July
						08	August
						09	September
						10	October
						11	November
						12	December
21-28	8	FILLER	Filler				
29	1	DOB_WK	Weekday		U,R	1	Sunday
						2	Monday
						3	Tuesday
						4	Wednesday
						5	Thursday
						6	Friday
						7	Saturday

* U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).

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R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
30-31	2	OSTATE	Occurrence Territory (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R		
			<u>Outlying Areas of the U.S.</u>			GU PR VI	Guam Puerto Rico Virgin Islands
32-36	5	FILLER	Filler				
37-39	3	OCNTYFIPS	Occurrence County (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R		
			<u>Puerto Rico</u>			127 999	San Juan County less than 250,000
			<u>Other Outlying Areas of the U.S.</u>			000 999	No county level geography County less than 250,000
40	1	OCNTYPOP	Occurrence County Pop (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R	0 1 2 9	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County less than 250,000
41	1	BFACIL	Birth Place (Revised)	676	R	1 2 3 4 5 6 7 9 Blank	Hospital Freestanding Birthing Center Home (intended) Home (not intended) Home (unknown if intended) Clinic / Doctor's Office Other Unknown Not on certificate
42	1	UBFACIL	Birth Place		U,R	1 2 3 4	Hospital Freestanding Birthing Center Clinic / Doctor's Office Residence
* U,R			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
U			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
R			Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						5	Other
						9	Unknown
43-58	16	FILLER	Filler				
59	1	BFACIL3	Birth Place Recode		U,R	1	In Hospital
						2	Not in Hospital
						3	Unknown or Not Stated
60-86	27	FILLER	Filler				
87	1	MAGE_IMPFLG	Mother's Age Imputed		U,R	Blank	Age not imputed
						1	Age imputed
88	1	MAGE_REPFLG	Reported Age of Mother Flag		U,R	Blank	Reported age not used
						1	Reported age used
89-90	2	MAGER	Mother's Age Recode 41		U,R	12	10 – 12 years
						13	13 years
						14	14 years
						15	15 years
						16	16 years
						17	17 years
						18	18 years
						19	19 years
						20	20 years
						21	21 years
						22	22 years
						23	23 years
						24	24 years
						25	25 years
						26	26 years
						27	27 years
						28	28 years
						29	29 years
						30	30 years
						31	31 years
						32	32 years
						33	33 years
						34	34 years
						35	35 years

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R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						36	36 years
						37	37 years
						38	38 years
						39	39 years
						40	40 years
						41	41 years
						42	42 years
						43	43 years
						44	44 years
						45	45 years
						46	46 years
						47	47 years
						48	48 years
						49	49 years
						50	50 -54 years
91-92	2	MAGER14	Mother's Age Recode 14		U,R	01	Under 15 Years
						03	15 years
						04	16 years
						05	17 years
						06	18 years
						07	19 years
						08	20-24 years
						09	25-29 years
						10	30-34 years
						11	35-39 years
						12	40-44 years
						13	45-49 years
						14	50-54 years
93	1	MAGER9	Mother's Age Recode 9		U,R	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

* U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).

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R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
94-95	2	MBCNTRY	Mother's Birth Country (This item is available in the territory file only, geographic codes are not available in the U.S.file)		R**	AA-ZZ	A complete list is shown in the Geographic Code Outline.

** Also includes unrevised territories/possessions that use new geographic coding.

96-108	13	FILLER	Filler				
109-110	2	MRTERR	Mother's Residence (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R		
						GU	Guam
						PR	Puerto Rico
						VI	Virgin Islands
						CC	Canada
						CU	Cuba
						MX	Mexico
						US	United States
						XX	Not Applicable
						ZZ	Not Classifiable

111-113 3 FILLER **Filler**

114-116	3	MRCNTY	Mother's County of residence (This item is available in the territory file only, geographic codes are not available in the U.S.file)				
			<u>Puerto Rico</u>			127	San Juan
						999	County of less than 250,000 or foreign resident
			<u>Other Outlying Areas of the US</u>			000	No county level geography
						999	County of less than 250,000 or foreign resident

117-131 15 FILLER **Filler**

132 1 RCNTY_POP **Population of Residence County** U,R
(This item is available in the territory file

* U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).

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R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			only, geographic codes are not available in the U.S.file)			0 1 2 9 Z	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County less than 250,000 Foreign resident
133-136	4	FILLER	Filler				
137	1	RECTYPE	Record Type (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R	1 2	RESIDENT: State and county of occurrence and residence are the same. NONRESIDENT: State and county of occurrence and residence are different.
138	1	RESTATUS	Residence Status <u>United States</u>		U,R	1 2 3 4	RESIDENT: State and county of occurrence and residence are the same. INTRASTATE NONRESIDENT: State of occurrence and residence are the same but county is different. INTERSTATE NONRESIDENT: State of occurrence and residence are different but both are one of the 50 US states or District of Columbia. FOREIGN RESIDENT: The state of residence is not one of the 50 US states or District of Columbia.
			<u>Outlying areas of the US</u>			1 2 2 3	RESIDENT: State and county of occurrence and residence are the same. (Unique to Guam, all US residents are considered residents of Guam and thus are assigned 1.) INTRATERRITORY NONRESIDENT: Territory of occurrence and residence are the same but county is different. INTERTERRITORY RESIDENT: Territory of occurrence and residence are different but both are US Territories. FOREIGN RESIDENT: The residence is not a US Territory.
139-140	2	MBRACE	Mother's Bridged Race Includes only states reporting multiple race. Codes 01-14 used for individuals reporting only one race. Codes 21-24 used for individuals reporting more than one race that have been bridged to a single race.		R**	01 02 03 04 05	White – single race Black – single race American Indian/Alaska Native – single race Asian Indian – single race Chinese – single race
			* U,R				Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).
			U				Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.
			R				Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			Code 24 also used for individuals reporting more than one Asian/Pacific Islander group; see "Technical Appendix."			06 07 08 09 10 11 12 13 14 21 22 23 24 Blank	Filipino – single race Japanese – single race Korean – single race Vietnamese – single race Other Asian – single race Hawaiian – single race Guamanian – single race Samoan – single race Other Pacific Islander – single race White – bridged multiple race Black – bridged multiple race American Indian / Alaska Native – bridged multiple race Asian / Pacific Islander – bridged multiple race Not on certificate
			** Also includes unrevised states that report multiple race.				
141-142	2	MRACE	Mother's Race Includes only states exclusively reporting single race. Some areas report additional Asian or Pacific Islander (API) codes for race. Codes 18-68 replace former code 08 for these areas. Code 78 replaces former code 08 for all other areas. See reporting flag at position 650 for API reporting area.		U		
			<u>United States</u>			01 02 03 04 05 06 07 18 28 38 48 58 68 78	White Black American Indian / Alaskan Native Chinese Japanese Hawaiian (includes part Hawaiian) Filipino Asian Indian Korean Samoan Vietnamese Guamanian Other Asian or Pacific Islander in areas reporting codes 18-58. Combined other Asian or Pacific Islander, includes 18-68 for areas that do not report them separately.
* U,R			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
U			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
R			Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						Blank	Not on certificate
			<u>Puerto Rico</u>			01	White
						02	Black
						00	Other races
						Blank	Not on certificate
			<u>Guam</u>			01	White
						02	Black
						03	American Indian / Alaska Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						58	Guamanian
						Blank	Not on certificate
			<u>All other Outlying Areas of the US</u>			01	White
						02	Black
						03	American Indian / Alaska Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						Blank	Not on certificate

143 1 MRACEREC **Mother's Race Recode** U,R
 Includes individuals reporting only one race and individuals reporting more than one race bridged to a single race.

			<u>United States and all Outlying Areas of the United States except Puerto Rico</u>			1	White
						2	Black
						3	American Indian / Alaskan Native
						4	Asian / Pacific Islander
			<u>Puerto Rico</u>			1	White
						2	Black

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R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						0	Other (not classified as White or Black)
144	1	MRACEIMP	Mother's Race Imputed Flag		U,R	Blank 1 2	Mother's race not imputed Unknown race imputed All other races, formerly coded 09, imputed.
145-147	3	FILLER	Filler				
148	1	UMHISP	Mother's Hispanic Origin	569	U,R	0 1 2 3 4 5 9	Non-Hispanic Mexican Puerto Rican Cuban Central American Other and Unknown Hispanic Origin unknown or not stated
149	1	MRACEHISP	Mother's Race/Hispanic Origin	569	U,R	1 2 3 4 5 6 7 8 9	Mexican Puerto Rican Cuban Central or South American Other and Unknown Hispanic Non-Hispanic White Non-Hispanic Black Non-Hispanic Other Races Origin unknown or not stated
150-152	3	FILLER	Filler				
153	1	MAR	Mother's Marital Status		U,R		
			<u>United States and all Outlying Areas of the US except Puerto Rico</u>			1 2 9	Yes No Unknown or not Stated
			<u>Puerto Rico</u>			1 2 3 9	Yes Unmarried parents living together Unmarried parents not living together Unknown or not stated

* U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).

U Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.

R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
154	1	MAR_IMP	Mother's Marital Status Imputed Flag		U,R	Blank 1	Marital Status not imputed Marital Status imputed
155	1	MEDUC	Mother's Educ –Revised	571	R	1 2 3 4 5 6 7 8 9 Blank	8 th grade or less 9 th through 12 th grade with no diploma High school graduate or GED completed Some college credit, but not a degree. Associate degree (AA,AS) Bachelor's degree (BA, AB, BS) Master's degree (MA, MS, MEng, MEd, MSW, MBA) Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD) Unknown Not on certificate
156-157	2	UMEDUC	Mother's Educ –Unrevised	647	U	00 01-08 09 10 11 12 13 14 15 16 17 99 Blank	No formal education Years of elementary school 1 year of high school 2 years of high school 3 years of high school 4 years of high school 1 year of college 2 years of college 3 years of college 4 years of college 5 or more years of college Not stated Not on certificate
158	1	MEDUC_REC	Mother's Education Recode	647	U	1 2 3 4 5 6 Blank	0 – 8 years 9 – 11 years 12 years 13 – 15 years 16 years and over Not stated Not on certificate
159-174	16	FILLER	Filler				
175	1	FAGERPT_FLG	Father's Reported Age Used		U,R	Blank 1	Father's reported age not used Father's reported age used

* U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
176-181	6	FILLER	Filler				
182-183	2	FAGECOMB	Father's Combined Age (Revised)		R	09-98 99 Blank	Father's combined age in years Unknown or not stated Not on certificate
184-185	2	UFAGECOMB	Father's Combined Age (Unrevised)		U	10-98 99	Father's combined age in years Unknown or not stated
186-187	2	FAGEREC11	Father's Age Recode 11		U,R	01 02 03 04 05 06 07 08 09 10 11	Under 15 years 15-19 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years 45-49 years 50-54 years 55-98 years Not stated
188-189	2	FBRACE	Father's Bridged Race Includes only states reporting multiple race. Codes 01-14 used for individuals reporting only one race. Codes 21-24 used for individuals reporting more than one race that have been bridged to a single race. Code 24 also used for individuals reporting more than one Asian/Pacific Islander group; see "Technical Appendix."		R**	01 02 03 04 05 06 07 08 09 10 11 12 13 14 21 22 23 24 99	White – single race Black – single race American Indian/Alaska Native – single race Asian Indian – single race Chinese – single race Filipino – single race Japanese – single race Korean – single race Vietnamese – single race Other Asian – single race Hawaiian – single race Guamanian – single race Samoan – single race Other Pacific Islander – single race White – bridged multiple race Black – bridged multiple race American Indian / Alaska Native – bridged multiple race Asian / Pacific Islander – bridged multiple race Unknown or not stated, also includes states not reporting

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			** Also includes unrevised states that report multiple race.			Blank	multiple race. Not on certificate
190	1	FILLER	Filler				
191	1	FRACEREC	Father's Race Recode Includes individuals reporting only one race and individuals reporting more than one race bridged to a single race.		U,R		
			<u>United States and all Outlying Areas of the US except Puerto Rico</u>			1 2 3 4 9	White Black American Indian / Alaskan Native Asian / Pacific Islander Unknown or not stated
			<u>Puerto Rico</u>			1 2 9 0	White Black Unknown or not stated Other (not classified as White or Black)
192-194	3	FILLER	Filler				
195	1	UFHISP	Father's Hispanic Origin-Unrevised		U,R	0 1 2 3 4 5 9	Non-Hispanic Mexican Puerto Rican Cuban Central American Other and Unknown Hispanic Origin unknown or not stated
			570				
196	1	FRACEHISP	Father's Race/Hispanic Origin		U,R	1 2 3 4 5 6 7 8	Mexican Puerto Rican Cuban Central or South American Other and Unknown Hispanic Non-Hispanic White Non-Hispanic Black Non-Hispanic Other Races

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						9	Origin unknown or not stated
197-198	2	FILLER	Filler				
199-200	2	UFRA	Father's Race (Unrevised)		U		
			<u>United States</u>			01	White
						02	Black
						03	American Indian / Alaska Native
						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 18-68 for areas that do not report them separately.
						99	Unknown or not stated
						Blank	Not on certificate
			<u>Puerto Rico</u>			01	White
						03	Black
						00	Other races not classified white or black
						99	Unknown or not stated
						Blank	Not on certificate
			<u>Guam</u>			01	White
						02	Black
						03	American Indian / Alaska Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						58	Guamanian
						99	Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						Blank	Not on certificate
			<u>All other Outlying Areas of the US</u>			01	White
						02	Black
						03	American Indian / Alaska Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						99	Unknown or not stated
						Blank	Not on certificate
201-211	11	FILLER	Filler				
212	1	LBO	Live Birth Order		U,R	1-7	Number of live birth order.
						8	8 or more live births
						9	Unknown or not stated
213-216	2	FILLER	Filler				
217	1	TBO	Total Birth Order		U,R	1-7	Number of total birth order.
						8	Total birth order of 8 or more
						9	Unknown or not stated
218-219	2	FILLER	Filler				
220-221	2	DLLB_MM	Date of Last Live Birth Month		R	01	January
						02	February
						03	March
						04	April
						05	May
						06	June
						07	July
						08	August
						09	September
						10	October
						11	November
						12	December
						88	Not applicable
						99	Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
222-225	4	DLLB_YY	Date of Last Live Birth Year		R	nnnn 8888 9999	Year of last live birth Not applicable Unknown or not stated
226-244	19	FILLER	Filler				
245-246	2	PRECARE	Month Prenatal Care Began (Revised)				
			668		R	00 01-10 99 Blank	No prenatal care Month prenatal care began Unknown or not stated Not on certificate
247	1	PRECARE_REC	Month Prenatal Care Began Recode (Revised)				
			668		R	1 2 3 4 5 Blank	1 st to 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated Not on certificate
248-255	8	FILLER	Filler				
256-257	2	MPCB	Month Prenatal Care Began (Unrevised)				
			669		U	00 01-10 99 Blank	No prenatal care Month prenatal care began Unknown or not stated Not on certificate
258	1	MPCB_REC6	Month Prenatal Care Began Recode 6 (Unrevised)				
			669		U	1 2 3 4 5 6 Blank	1 st to 2 nd month 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated Not on certificate
259	1	MPCB_REC5	Month Prenatal Care Began Recode 5 (Unrevised)				
			669		U	1 2	1 st trimester (1 st to 3 rd month) 2 nd trimester (4 th to 6 th month)

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						3	3 rd trimester (7 th to final month)
						4	No prenatal care
						5	Unknown or not stated
						Blank	Not on certificate
260-269	10	FILLER	Filler				
270-271	2	UPREVIS	Number of Prenatal Visits		U,R	00-49	Number of prenatal visits
						99	Unknown or not stated
272-273	2	PREVIS_REC	Number of Prenatal Visits Recode		U,R	01	No visits
						02	1 to 2 visits
						03	3 to 4 visits
						04	5 to 6 visits
						05	7 to 8 visits
						06	9 to 10 visits
						07	11 to 12 visits
						08	13 to 14 visits
						09	15 to 16 visits
						10	17 to 18 visits
						11	19 or more visits
						12	Unknown or not stated
274	1	FILLER	Filler				
275	1	APNCU	Adequacy of Prenatal Care Utilization Index (Revised)				
				668	R	1	Inadequate
						2	Intermediate
						3	Adequate
						4	Adequate +
						9	Unknown
						Blank	Not on certificate
276-277	2	WTGAIN	Weight Gain	648	U,R	00-97	Weight gain in pounds
						98	98 pounds and over
						99	Unknown or not stated
278	1	WTGAIN_REC	Weight Gain Recode	648	U,R	1	Less than 16 pounds
						2	16 to 20 pounds
						3	21 to 25 pounds
						4	26 to 30 pounds

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						5	31 to 35 pounds
						6	36 to 40 pounds
						7	41 to 45 pounds
						8	46 or more pounds
						9	Unknown or not stated
279	1	U_APNCU	Adequacy of Prenatal Care Utilization Index (Unrevised)	669	U	1 2 3 4 9 Blank	Inadequate Intermediate Adequate Adequate + Unknown Not on certificate
280	1	DFPC_IMP	Day of Date First Prenatal Care Imputed		R	Blank 1	Day of date first prenatal care not imputed Day of date first prenatal care imputed
281-283	3	FILLER	Filler				
284-285	2	CIG_1	Cigarettes 1st Trimester	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
286-287	2	CIG_2	Cigarettes 2nd Trimester	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
288-289	2	CIG_3	Cigarettes 3rd Trimester	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
290	1	TOBUSE	Tobacco Use	667	U	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
291-292	2	CIGS	Cigarettes per Day	667	U	00-97 98	Number of cigarettes daily 98 or more cigarettes daily

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						99 Blank	Unknown or not stated Not on certificate
293	1	UCIG_REC6	Cigarette Recode	667	U	0 1 2 3 4 5 6 Blank	Non-smoker 1 to 5 cigarettes daily 6 to 10 cigarettes daily 11 to 20 cigarettes daily 21 to 40 cigarettes daily 41 or more cigarettes daily Unknown or not stated Not on certificate
294	1	CIG_REC	Cigarette Recode	575	R	Y N U Blank	Yes No Unknown or not stated Not on certificate
295	1	ALCOHOL	Alcohol Use	649	U	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
296-297	2	DRINKS	Drinks per Week	649	U	00-97 98 99 Blank	Number of drinks weekly 98 or more drinks weekly Unknown or not stated Not on certificate
298	1	DRINKS_REC	Drinks Recode	649	U	0 1 2 3 4 5 Blank	Non drinker 1 drink per week 2 drinks per week 3-4 drinks per week 5 or more drinks per week Unknown or not stated Not on certificate
299-312	14	FILLER	Filler				
313-319	9	<u>Risk Factors (Revised)</u> The checkbox items below follow this code structure:				Y N U	Yes No Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						Blank	Not on certificate
313	1	RF_DIAB	Prepregnancy Diabetes	582	R		
314	1	RF_GEST	Gestational Diabetes	583	R		
315	1	RF_PHYP	Prepregnancy Hypertesion	584	R		
316	1	RF_GHYP	Gestational Hypertension	585	R		
317	1	RF_ECLAM	Eclampsia	586	R		
318	1	RF_PPTERM	Previous Preterm Birth	587	R		
319	1	RF_PPOUTC	Poor Pregnancy Outcome	588	R		
320-323	4	FILLER	Filler				
324	1	RF_CESAR	Previous Cesarean Deliveries	593	R	Y N U Blank	Yes No Unknown or not stated Not on certificate
325-326	2	RF_CESARN	Number of Previous Cesarean Deliveries	594	R	00 01-30 99 Blank	None Number of previous cesareans Unknown or not stated Not on certificate
327	1	FILLER	Filler				
328-344	17	<u>Risk Factors</u> The checkbox items indented below follow this structure: The version is all 1989 Standard unless otherwise noted.			U	1 2 9 Blank	Yes No Unknown Not on certificate
328	1	URF_ANEMIA	Anemia	681			
329	1	URF_CARDC	Cardiac	682			
330	1	URF_LUNG	Acute or Chronic Lung Disease	683			
331	1	URF_DIAB	Diabetes	684	U,R		
332	1	URF_GEN	Genital Herpes	685			
333	1	URF_HYDR	Hydramnios / Oligohydramnios	686			
334	1	URF_HEMO	Hemoglobinopathy	687			
335	1	URF_CHYPER	Chronic Hypertension	688	U,R		
336	1	URF_PHYPER	Prepregnancy Associated Hypertension	689	U,R		
337	1	URF_ECLAM	Eclampsia	690	U,R		
338	1	URF_INCERV	Incompetent Cervix	691			
339	1	URF_PRE4000	Previous Infant 4000+ Grams	692			

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
340	1	URF_PRETERM	Previous Preterm/Small for Gestation	693			
341	1	URF_RENAL	Renal Disease	694			
342	1	URF_RH	Rh Sensitization	695			
343	1	URF_UTERINE	Uterine Bleeding	696			
344	1	URF_OTHER	Other medical risk factors	697			
345-350	6	FILLER	Filler				
351-354	4	<u>Obstetric Procedures (Revised)</u>					
		The checkbox items indented below follow this structure:				Y	Yes
						N	No
						U	Unknown or not stated
						Blank	Not on certificate
351	1	OP_CERV	Cervical Cerclage	601	R		
352	1	OP_TOCOL	Tocolysis	602	R		
353	1	OP_ECVS	Successful External Cephalic Version	603	R		
354	1	OP_ECVF	Failed External Cephalic Version	604	R		
355-361	7	<u>Obstetric Procedures (Unrevised)</u>					
		The checkbox items indented below follow this structure:				1	Yes
		The version is all 1989 Standard unless otherwise noted.				2	No
						9	Unknown or not stated
						Blank	Not on certificate
355	1	UOP_AMNIO	Amniocentesis	701			
356	1	UOP_MONIT	Electronic Fetal Monitoring	702			
357	1	UOP_INDUC	Induction of Labor	703	U,R		
358	1	UOP_STIML	Stimulation of Labor	704			
359	1	UOP_TOCOL	Tocolysis	705	U,R		
360	1	UOP_ULTRA	Ultrasound	706			
361	1	UOP_OTHER	Other Obstetric Procedures	707			
362-364	3	<u>Onset of Labor</u>					
		The checkbox items below follow this structure:				Y	Yes
						N	No
						U	Unknown or not stated
						Blank	Not on certificate
362	1	ON_RUPTR	Premature Rupture of Membrane	605	R		
363	1	ON_PRECIP	Precipitous Labor	606	R		
364	1	ON_PROL	Prolonged Labor	607	R		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
365-373	9	<u>Characteristics of Labor and Delivery (Revised)</u>					
		The checkbox items below follow this structure:				Y	Yes
						N	No
						U	Unknown or not stated
						Blank	Not on certificate
365	1	LD_INDL	Induction of Labor	608	R		
366	1	LD_AUGM	Augmentation of Labor	609	R		
367	1	LD_NVPR	Non-Vertex Presentation	610	R		
368	1	LD_STER	Steriods	611	R		
369	1	LD_ANTI	Antibiotics	612	R		
370	1	LD_CHOR	Chorioamnionitis	613	R		
371	1	LD_MECS	Meconium Staining	614	R		
372	1	LD_FINT	Fetal Intolerance	615	R		
373	1	LD_ANES	Anesthesia	616	R		

374-389	16	<u>Complications of Labor and Delivery (Unrevised)</u>					
		The checkbox items indented below follow this structure:				1	Yes
		The version is all 1989 Standard unless otherwise noted.				2	No
						9	Unknown or not stated
						Blank	Not on certificate
374	1	ULD_FEBR	Febrile	711			
375	1	ULD_MECO	Meconium	712	U,R		
376	1	ULD_RUPTR	Premature Rupture of Membrane	713			
377	1	ULD_ABRUP	Abruptio Placenta	714			
378	1	ULD_PREPLA	Placenta Previa	715			
379	1	ULD_EXCBL	Other Excessive Bleeding	716			
380	1	ULD_SEIZ	Seizures During Labor	717			
381	1	ULD_PRECIP	Precipitous Labor	718	U,R		
382	1	ULD_PROLG	Prolonged Labor	719			
383	1	ULD_DYSFN	Dysfunctional Labor	720			
384	1	ULD_BREECH	Breech	721	U,R		
385	1	ULD_CEPHAL	Cephalopelvic Disproportion	722			
386	1	ULD_CORD	Cord Prolapse	723			
387	1	ULD_ANEST	Anesthetic Complications	724			
388	1	ULD_DISTR	Fetal Distress	725			
389	1	ULD_OTHER	Other Complications	726			

390-394	5	<u>Method of Delivery (Revised)</u>					
390	1	ME_ATTf	Attempted Forceps	617	R	Y	Yes

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						N	No
						U	Unknown
						Blank	Not on certificate
391	1	ME_ATTV	Attempted Vacuum	618	R	Y	Yes
						N	No
						U	Unknown
						Blank	Not on certificate
392	1	ME_PRES	Fetal Presentation	619	R	1	Cephalic
						2	Breech
						3	Other
						9	Unknown
						Blank	Not on certificate
393	1	ME_ROUT	Route & Method of Delivery	620	R	1	Spontaneous
						2	Forceps
						3	Vacuum
						4	Cesarean
						9	Unknown
						Blank	Not on certificate
394	1	ME_TRIAL	Trial of Labor Attempted	621	R	Y	Yes
						N	No
						X	Not applicable
						U	Unknown
						Blank	Not on certificate
395-400	6	<u>Method of Delivery (Unrevised)</u>					
		The checkbox items indented below follow this structure:					
						1	Yes
						2	No
						9	Unknown or not stated
395	1	UME_VAG	Vaginal	730	U		
396	1	UME_VBAC	Vaginal after C-Section	731	U		
397	1	UME_PRIMC	Primary C-Section	732	U		
398	1	UME_REPEC	Repeat C-Section	733	U		
399	1	UME_FORCP	Forceps	734	U,R		
400	1	UME_VAC	Vacuum	735	U,R		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
401	1	RDMETH_REC	Delivery Method Recode (Revised) 679		R	1 2 3 4 5 6 9	Vaginal (excludes vaginal after previous C-section) Vaginal after previous c-section Primary C-section Repeat C-section Vaginal (unknown if previous c-section) (2003 Standard only) C-section (unknown if previous c-section) (2003 Standard only) Not stated
402	1	UDMETH_REC	Delivery Method Recode (Unrevised) 680		U	1 2 3 4 9	Vaginal (excludes vaginal after previous C-section) Vaginal after previous c-section Primary C-section Repeat C-section Not stated
403	1	DMETH_REC			U,R	1 2 9	Vaginal C-Section Unknown
404-409	6	FILLER	Filler				
410	1	ATTEND	Attendant		U,R	1 2 3 4 5 9	Doctor of Medicine (MD) Doctor of Osteopathy (DO) Certified Nurse Midwife (CNM) Other Midwife Other Unknown or not stated
411-414	4	FILLER	Filler				
415	2	APGAR5	Five Minute APGAR Score 574		U,R	00-10 99	A score of 0-10 Unknown or not stated
417	1	APGAR5R	Five Minute APGAR Recode 574		U,R	1 2 3 4	A score of 0-3 A score of 4-6 A score of 7-8 A score of 9-10

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						5	Unknown or not stated
418-422	5	FILLER	Filler				
423	1	DPLURAL	Plurality Recode		U,R	1 2 3 4 5	Single Twin Triplet Quadruplet Quintuplet or higher
424	1	FILLER	Filler				
425	1	IMP_PLUR	Plurality Imputed		U,R	Blank 1	Plurality is imputed Plurality is not imputed
426-435	10	FILLER	Filler				
436	1	SEX	Sex of Infant		U,R	M F	Male Female
437	1	IMP_SEX	Imputed Sex		U,R	Blank 1	Infant Sex not Imputed Infant Sex is Imputed
438-439	2	DLMP_MM	Last Normal Menses Month		U,R	01 02 03 04 05 06 07 08 09 10 11 12 99	January February March April May June July August September October November December Unknown or not stated
440-441	2	DLMP_DD	Last Normal Menses Day		U,R	01-31 99	As applicable to month of LMP Unknown or not stated
442-445	4	DLMP_YY	Last Normal Menses Year		U,R	nnnn 9999	Year of last normal menses Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
446-447	2	ESTGEST	Obstetric/Clinical Gestation Est.	573	U,R	0-98 99	0 through 98 th week of gestation Unknown or not stated
448-450	3	FILLER	Filler				
451-452	2	COMBGEST	Gestation – Detail in Weeks		U,R	17-47 99	17 th through 47 th week of gestation Unknown
453-454	2	GESTREC10	Gestation Recode 10		U,R	01 02 03 04 05 06 07 08 09 10	Under 20 weeks 20-27 weeks 28-31 weeks 32-35 weeks 36 weeks 37-39 weeks 40 weeks 41 weeks 42 weeks and over Unknown
455	1	GESTREC3	Gestation Recode 3		U,R	1 2 3	Under 37 weeks 37 weeks and over Not stated
456	1	OBGEST_FLG	Clinical Estimate of Gestation Used Flag		U,R	Blank 1	Clinical Estimate is not used Clinical Estimate is used
457	1	GEST_IMP	Gestation Imputed Flag		U,R	Blank 1	Gestation is not imputed Gestation is imputed
458-466	9	FILLER	Filler				
467-470	4	BRTHWGT	Imputed Birthweight		U,R	0227-8165 9999	Number of grams Not stated birthweight
471-472	2	BWTR14	Birthweight Recode 14		U,R	01 02 03 04 05 06	499 grams or less 500 – 749 grams 750 - 999 grams 1000 - 1249 grams 1250 – 1499 grams 1500 – 1999 grams

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						07	2000 – 2499 grams
						08	2500 – 2999 grams
						09	3000 – 3400 grams
						10	3500 – 3999 grams
						11	4000 – 4499 grams
						12	4500 – 4999 grams
						13	5000 – 8165 grams
						14	Not Stated
473	1	BWTR4	Birthweight Recode 4		U,R	1	1499 grams or less
						2	1500 – 2499 grams
						3	2500 grams or more
						4	Unknown or not stated
474	1	FILLER	Filler				
475	1	BWTIMP	Imputed Birth Weight Flag		U,R	Blank	Birth Weight is not imputed
						1	Birth Weight is imputed
476-482	7	<u>Abnormal Conditions of the Newborn (Revised)</u>					
		The checkbox items below follow this structure:				Y	Yes, Complication reported
						N	No Complication reported
						U	Unknown or not stated
						Blank	Not on certificate
476	1	AB_AVEN1	Assisted Ventilation	628	R		
477	1	AB_AVEN6	Assisted Ventilation >6 hrs	629	R		
478	1	AB_NICU	Admission to NICU	630	R		
479	1	AB_SURF	Surfactant	631	R		
480	1	AB_ANTI	Antibiotics	632	R		
481	1	AB_SEIZ	Seizures	633	R		
482	1	AB_BINJ	Birth Injury	634	R		
483-491	9	<u>Abnormal Conditions of the Newborn (Unrevised)</u>					
		The checkbox items indented below follow this structure:				1	Complication reported
						2	Complication not reported
						9	Complication not classifiable
						Blank	Not on certificate
483	1	UAB_ANEM	Anemia	740	U		
484	1	UAB_INJURY	Birth Injury	741	U		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
485	1	UAB_ALCOH	Fetal Alcohol Syndrome	742	U		
486	1	UAB_HYAL	Hyaline Membrane Disease	743	U		
487	1	UAB_MECON	Meconium Aspiration Syndrome	744	U		
488	1	UAB_VENL30	Assisted Ventilation < 30 min	745	U		
489	1	UAB_VEN30M	Assisted Ventilation >= 30 min	746	U		
490	1	UAB_NSEIZ	Seizures	747	U		
491	1	UAB_OTHER	Other Abnormal Conditions	748	U		
492-503	12	<u>Congenital Anomalies of the Newborn (Revised)</u>					
		The checkbox items below follow this structure:				Y	Yes, anomaly reported
					N	No, anomaly not reported	
					U	Unknown	
					Blank	Not on certificate	
492	1	CA_ANEN	Anencephaly	635	R		
493	1	CA_MNSB	Meningomyelocele/Spina Bifida	636	R		
494	1	CA_CCHD	Cyanotic Congenital Heart Disease	637	R		
495	1	CA_CDH	Congenital Diaphragmatic Hernia	638	R		
496	1	CA_OMP	Omphalocele	639	R		
497	1	CA_GAST	Gastroschisis	640	R		
498	1	CA_LIMB	Limb Reduction Defect	641	R		
499	1	CA_CLEFT	Cleft Lip w/ or w/o Cleft Palate	642	R		
500	1	CA_CLPAL	Cleft Palate alone	643	R		
501	1	CA_DOWN	Downs Syndrome	644	R	C	Confirmed
					P	Pending	
					N	No	
					U	Unknown	
					Blank	Not on certificate	
502	1	CA_DISOR	Suspected Chromosomal Disorder	645	R	C	Confirmed
					P	Pending	
					N	No	
					U	Unknown	
					Blank	Not on certificate	
503	1	CA_HYPO	Hypospadias	646	R	Y	Yes, Anomaly reported
					N	No, Anomaly not reported	
					U	Unknown	
					Blank	Not on certificate	

504-525 22 **Congenital Anomalies of the Newborn (Unrevised)**

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			The checkbox items indented below follow this structure: The version is all 1989 Standard unless otherwise noted.			1	Anomaly reported
					2	Anomaly not reported	
					9	Anomaly not classifiable	
					Blank	Not on certificate	
504	1	UCA_ANEN	Anencephalus	752	U,R		
505	1	UCA_SPINA	Spina Bifida / Meningocele	753	U,R		
506	1	UCA_HYDRO	Hydrocephalus	754			
507	1	UCA_MICRO	Microcephalus	755			
508	1	UCA_NERV	Other Central Nervous System Anoms.	756			
509	1	UCA_HEART	Heart Malformations	757			
510	1	UCA_CIRC	Other Circulatory/Respiration Anoms.	758			
511	1	UCA_RECTAL	Rectal Atresia / Stenosis	759			
512	1	UCA_TRACH	Tracheo-Esophageal Fistula	760			
513	1	UCA_OMPHA	Omphalocele / Gastroschisis	761	U,R		
514	1	UCA_GASTRO	Other Gastrointestinal Anoms.	762			
515	1	UCA_GENITAL	Malformed Genitalia	763			
516	1	UCA_RENAL	Renal Agenesis	764			
517	1	UCA_UROGEN	Other Urogenital Anoms.	765			
518	1	UCA_CELFTLP	Cleft Lip / Palate	766	U,R		
519	1	UCA_ADACTY	Polydactyly / Syndactyly / Adactyly	767			
520	1	UCA_CLUBFT	Club Foot	768			
521	1	UCA_HERNIA	Diaphragmatic Hernia	769			
522	1	UCA_MUSCU	Other Musculoskeletal Anoms.	770			
523	1	UCA_DOWNS	Downs Syndrome	771	U,R		
524	1	UCA_CHROM	Other Chromosomal Anoms.	772			
525	1	UCA_OTHER	Other Congenital Anoms.	773			

526-568 43 FILLER **Filler**

569-773 205 **Flag File for Reporting Flags**

The reporting flags indented below follow this coding structure:

0 Not reporting
1 Reporting

569	1	F_MORIGIN	Origin of Mother		U,R
570	1	F_FORIGIN	Origin of Father		U,R
571	1	F_MEDUC	Education of Mother		R
572	1	FILLER	Filler		
573	1	F_CLINEST	Clinical Estimate of Gestation		U,R
574	1	F_APGAR5	Five minute APGAR		U,R
575	1	F_TOBACO	Tobacco use		R
576-581	6	FILLER	Filler		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
582	1	F_RF_PDIAB	Prepregnancy Diabetes		R		
583	1	F_RF_GDIAB	Gestational Diabetes		R		
584	1	F_RF_PHYPER	Prepregnancy Hypertension		R		
585	1	F_RF_GHYPER	Gestational Hypertension		R		
586	1	F_RF_ECLAMP	Eclampsia		R		
587	1	F_RF_PPB	Previous Preterm Birth		R		
588	1	F_RF_PPO	Poor Pregnancy Outcome		R		
589-592	4	FILLER	Filler				
593	1	F_RF_CESAR	Previous Cesarean		R		
594	1	F_RF_NCESAR	Number of Previous Cesareans		R		
595-600	6	FILLER	Filler				
601	1	F_OB_CERVIC	Cervical Cerclage		R		
602	1	F_OB_TOCO	Tocolysis		R		
603	1	F_OB_SUCC	Successful External Cephalic Version		R		
604	1	F_OB_FAIL	Failed External Cephalic Version		R		
605	1	F_OL_RUPTURE	Premature Rupture of Membranes		R		
606	1	F_OL_PRECIP	Precipitous Labor		R		
607	1	F_OL_PROLONG	Prolonged Labor		R		
608	1	F_LD_INDUCT	Induction of Labor		R		
609	1	F_LD_AUGMENT	Augmentation of Labor		R		
610	1	F_LD_NVRTX	Non-Vertex Presentation		R		
611	1	F_LD_STEROIDS	Steroids		R		
612	1	F_LD_ANTIBIO	Antibiotics		R		
613	1	F_LD_CHORIO	Chorioamnionitis		R		
614	1	F_LD_MECON	Meconium Staining		R		
615	1	F_LD_FINTOL	Fetal Intolerance		R		
616	1	F_LD_ANESTH	Anesthesia		R		
617	1	F_MD_ATTFOR	Attempted Forceps		R		
618	1	F_MD_ATTVAC	Attempted Vacuum		R		
619	1	F_MD_PRESENT	Fetal Presentation		R		
620	1	F_MD_ROUTE	Final Route and Method of Delivery		R		
621	1	F_MD_TRIAL	Trial of Labor Attempted		R		
622-627	6	FILLER	Filler				
628	1	F_AB_VENT	Assisted Ventilation		R		
629	1	F_AB_VENT6	Assisted Ventilation >6 hrs		R		
630	1	F_AB_NICU	Admission to NICU		R		
631	1	F_AB_SURFAC	Surfactant		R		
632	1	F_AB_ANTIBIO	Antibiotics		R		
633	1	F_AB_SEIZ	Seizures		R		
634	1	F_AB_INJ	Birth Injury		R		
635	1	F_CA_ANEN	Anencephaly		R		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
636	1	F_CA_MENIN	Meningomyelocele/Spina Bifida		R		
637	1	F_CA_HEART	Cyanotic Congenital Heart Disease		R		
638	1	F_CA_HERNIA	Congenital Diaphragmatic Hernia		R		
639	1	F_CA_OMPHA	Omphalocele		R		
640	1	F_CA_GASTRO	Gastroschisis		R		
641	1	F_CA_LIMB	Limb Reduction Defect		R		
642	1	F_CA_CLEFTLP	Cleft Lip w/ or w/o Cleft Palate		R		
643	1	F_CA_CLEFT	Cleft Palate Alone		R		
644	1	F_CA_DOWNS	Downs Syndrome		R		
645	1	F_CA_CHROM	Suspected Chromosomal Disorder		R		
646	1	F_CA_HYPOS	Hypospadias		R		
647	1	F_MED	Mother's Education		U		
648	1	F_WTGAIN	Weight Gain		U,R		
649	1	F_ALCOL	Alcohol use		U		
650	1	F_API	API Codes		U		
651-666	16	FILLER	Filler				
667	1	F_TOBAC	Tobacco Use		U		
668	1	F_MPCB	Month Prenatal Care Began		R		
669	1	F_MPCB_U	Month Prenatal Care Began		U		
670-678	9	FILLER	Filler				
679	1	F_RDMETH_REC	Delivery Method Recode (revised)		R		
680	1	F_UDMETH_REC	Delivery Method Recode (unrevised)		U		
681	1	F_URF_ANEMIA	Anemia		U		
682	1	F_URF_CARDIAC	Cardiac		U		
683	1	F_URF_LUNG	Acute or Chronic Lung Disease		U		
684	1	F_URF_DIABETES	Diabetes		U		
685	1	F_URF_HERPE	Genital Herpes		U		
686	1	F_URF_HYDRA	Hydramnios / Oligohydramnios		U		
687	1	F_URF_HEMO	Hemoglobinopathy		U		
688	1	F_URF_CHYPER	Chronic Hypertension		U		
689	1	F_URF_PHYPER	Pregnancy Associated Hypertension		U		
690	1	F_URF_ECLAMP	Eclampsia		U		
691	1	F_URF_INCERVIX	Incompetent Cervix		U		
692	1	F_URF_PRE4000	Previous Infant 4000+ Grams		U		
693	1	F_URF_PRETERM	Previous Preterm/Small for Gestation		U		
694	1	F_URF_RENAL	Renal Disease		U		
695	1	F_URF_RH	Rh Sensitization		U		
696	1	F_URF_UTERINE	Uterine Bleeding		U		
697	1	F_URF_OTHERMR	Other Medical Risk Factors		U		
698-700	3	FILLER	Filler				
701	1	F_UOB_AMNIO	Amniocentesis		U		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
702	1	F_UOB_MONITOR	Electronic Fetal Monitoring		U		
703	1	F_UOB_INDUCT	Induction of Labor		U		
704	1	F_UOB_STIMUL	Stimulation of Labor		U		
705	1	F_UOB_TOCOL	Tocolysis		U		
706	1	F_UOB_ULTRAS	Ultrasound		U		
707	1	F_UOB_OTHEROB	Other Obstetric Procedures		U		
708-710	3	FILLER	Filler				
711	1	F_ULD_FEBRILE	Febrile		U		
712	1	F_ULD_MECONIUM	Meconium		U		
713	1	F_ULD_RUPTURE	Premature Rupture of Membrane		U		
714	1	F_ULD_ABRUPTIO	Abruption Placenta		U		
715	1	F_ULD_PREPLACE	Placenta Previa		U		
716	1	F_ULD_EXCEBLD	Other Excessive Bleeding		U		
717	1	F_ULD_SEIZURE	Seizures During Labor		U		
718	1	F_ULD_PRECIP	Precipitous Labor		U		
719	1	F_ULD_PROLONG	Prolonged Labor		U		
720	1	F_ULD_DYSFUNC	Dysfunctional Labor		U		
721	1	F_ULD_BREECH	Breech		U		
722	1	F_ULD_CEPHALO	Cephalopelvic Disproportion		U		
723	1	F_ULD_CORD	Cord Prolapse		U		
724	1	F_ULD_ANESTHE	Anesthetic Complications		U		
725	1	F_ULD_DISTRESS	Fetal Distress		U		
726	1	F_ULD_OTHERLD	Other Complications		U		
727-729	3	FILLER	Filler				
730	1	F_U_VAGINAL	Vaginal		U		
731	1	F_U_VBAC	Vaginal after C-Section		U		
732	1	F_U_PRIMAC	Primary C-Section		U		
733	1	F_U_REPEAC	Repeat C-Section		U		
734	1	F_U_FORCEP	Forceps		U		
735	1	F_U_VACUUM	Vacuum		U		
736-739	4	FILLER	Filler				
740	1	F_UAB_ANEMIA	Anemia		U		
741	1	F_UAB_INJURY	Birth Injury		U		
742	1	F_UAB_ALCOSYN	Fetal Alcohol Syndrome		U		
743	1	F_UAB_HYALINE	Hyaline Membrane Disease		U		
744	1	F_UAB_MECONSYN	Meconium Aspiration Syndrome		U		
745	1	F_UAB_VENL30	Assisted Ventilation <30 minutes		U		
746	1	F_UAB_VEN30M	Assisted Ventilation >=30 minutes		U		
747	1	F_UAB_NSEIZ	Seizures		U		
748	1	F_UAB_OTHERAB	Other Abnormal Conditions		U		
749-751	3	FILLER	Filler				

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
752	1	F_UCA_ANEN	Anencephalus		U		
753	1	F_UCA_SPINA	Spina Bifida / Meningocele		U		
754	1	F_UCA_HYDRO	Hydrocephalus		U		
755	1	F_UCA_MICROCE	Microcephalus		U		
756	1	F_UCA_NERVOUS	Other Central Nervous System Anomalies		U		
757	1	F_UCA_HEART	Heart Malformations		U		
758	1	F_UCA_CIRCUL	Other Circulatory / Respiration Anomalies		U		
759	1	F_UCA_RECTAL	Rectal Atresia / Stenosis		U		
760	1	F_UCA_TRACHEO	Tracheo-Esophageal Fistula		U		
761	1	F_UCA_OMPHALO	Omphalocele / Gastroschisis		U		
762	1	F_UCA_GASTRO	Other Gastrointestinal Anomalies		U		
763	1	F_UCA_GENITAL	Malformed Genitalia		U		
764	1	F_UCA_RENALAG	Renal Agenesis		U		
765	1	F_UCA_UROGEN	Other Urogenital Anomalies		U		
766	1	F_UCA_CLEFTLP	Cleft Lip / Palate		U		
767	1	F_UCA_ADACTYL	Polydactyly / Syndactyly / Adactyly		U		
768	1	F_UCA_CLUB	Club Foot		U		
769	1	F_UCA_HERNIA	Diaphragmatic Hernia		U		
770	1	F_UCA_MUSCULO	Other Musculoskeletal Anomalies		U		
771	1	F_UCA_DOWNS	Downs Syndrome		U		
772	1	F_UCA_CHROMO	Other Chromosomal Anomalies		U		
773	1	F_UCA_OTHRCON	Other Congenital Anomalies		U		
774-799	26	FILLER	Filler				
800-823	24	<u>Mother's Race Edited</u>			R**	100-999	Mother's Race Edited Code A00-R99
800	3	MRACE1E					
803	3	MRACE2E					
806	3	MRACE3E					
809	3	MRACE4E					
812	3	MRACE5E					
815	3	MRACE6E					
818	3	MRACE7E					
821	3	MRACE8E					
			** Also includes unrevised states that are reporting multiple race				
824-834	11	FILLER	Filler				

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition	
835-858	24	<u>Father's Race Edited</u>			R**	100-999 A00-R99	Father's Race Edited Code	
835	3	FRACE1E						
838	3	FRACE2E						
841	3	FRACE3E						
844	3	FRACE4E						
847	3	FRACE5E						
850	3	FRACE6E						
853	3	FRACE7E						
856	3	FRACE8E						
			** Also includes unrevised states that are reporting multiple race					
859-867	9	FILLER	Filler					
868	1	FLGND	Flag indicating records in both numerator and denominator file					
						1	Record in both files	
						Blank	Record not in numerator file	

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

869-871	3	FILLER	Filler				
872-874	3	AGED	Age at Death in Days			000-365	Number of days
875	1	AGER5	Infant age recode 5			1	Under 1 hour
						2	1 – 23 hours
						3	1 – 6 days
						4	7 – 27 days (late neonatal)
						5	28 days and over (postneonatal)
876-877	2	AGER22	Infant age recode 22			Blank	Age 1 year and over or not stated
						01	Under 1 hour (includes not stated hours and minutes)
						02	1 – 23 hours
						03	1 day (includes not stated days)
						04	2 days
						05	3 days

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						06	4 days
						07	5 days
						08	6 days
						09	7-13 days
						10	14 – 20 days
						11	21 – 27 days
						12	1 month (includes not stated months)
						13	2 months
						14	3 months
						15	4 months
						16	5 months
						17	6 months
						18	7 months
						19	8 months
						20	9 months
						21	10 months
						22	11 months
878	1	MANNER	Manner of Death			1	Accident
						2	Suicide
						3	Homicide
						4	Pending investigation
						5	Could not determine
						6	Self-inflicted
						7	Natural
						Blank	Not specified
879	1	DISPO	Method of Disposition			B	Burial
						C	Cremation
						O	Other
						U	Unknown
880	1	AUTOPSY	Autopsy			Y	Yes
						N	No
						U	Unknown
881	1	FILLER	Filler				
882	1	PLACE	Place of injury for causes W00-Y34, except Y06.- and Y07.-			0	Home
						1	Residential institution
						2	School, other institution and public administrative area

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						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	Cause other than W00-Y34, except Y06.- and Y07.-

883	1	FILLER	Filler				
884-887	4	UCOD	ICD Code (10th Revision) See the <u>International Classification of Diseases, 1992</u> Revision, Volume 1.				
888	1	FILLER	Filler				
889-891	3	UCODR130	130 Infant Cause Recode			001-158	Code Range
892	1	FILLER	Filler				
893-900	8	RECWT	Record Weight (no weights computed for possessions file) 1.XXXXXX				
901-902	2	FILLER	Filler				
903-904	2	EANUM	Number of Entity-Axis Conditions			00-20	Code range
905-1044	140	ENTITY	Entity-Axis Conditions Space has been provided for a maximum of 20 conditions. Each condition takes 7 positions in the record. The 7 th position will be blank. Records that do not have 20 conditions are blank in the unused area.				

Position 1:	Part/line number on certificate
1	... Part I, line 1 (a)
2	... Part I, line 2 (b)
3	... Part I, line 3 (c)
4	... Part I, line 4 (d)
5	... Part I, line 5 (e)
6	... Part II

* U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).

U Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.

R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			Position 2: 1-7	Sequence of condition within part/line ...			Code range
			Position 3 – 6: Condition code See Table 1 for a complete list of codes				
			905-911	7			1 st Condition
			912-918	7			2 nd Condition
			919-925	7			3 rd Condition
			926-932	7			4 th Condition
			933-939	7			5 th Condition
			940-946	7			6 th Condition
			947-953	7			7 th Condition
			954-960	7			8 th Condition
			961-967	7			9 th Condition
			968-974	7			10 th Condition
			975-981	7			11 th Condition
			982-988	7			12 th Condition
			989-995	7			13 th Condition
			996-1002	7			14 th Condition
			1003-1009	7			15 th Condition
			1010-1016	7			16 th Condition
			1017-1023	7			17 th Condition
			1024-1030	7			18 th Condition
			1031-1037	7			19 th Condition
			1038-1044	7			20 th Condition
1045-1046	2	FILLER	Filler				
1047-1048	2	RANUM	Number of Record-Axis Conditions			00-20	Code range
1049-1148	100	RECORD	Record-Axis Conditions Space has been provided for a maximum of 20 conditions. Each condition takes 5 positions in the record. The 5 th position will be blank. Records that do not have 20 conditions are blank in the unused area.				
			Positions 1 – 4: Condition Code See Table 1 for a complete list of codes				
* U,R			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
U			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
R			Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			1 st Condition				
			2 nd Condition				
			3 rd Condition				
			4 th Condition				
			5 th Condition				
			6 th Condition				
			7 th Condition				
			8 th Condition				
			9 th Condition				
			10 th Condition				
			11 th Condition				
			12 th Condition				
			13 th Condition				
			14 th Condition				
			15 th Condition				
			16 th Condition				
			17 th Condition				
			18 th Condition				
			19 th Condition				
			20 th Condition				
1149-1150	2	FILLER	Filler				
1151	1	D_RESTATUS	Death Resident Status				
			United States Occurrence			1	RESIDENTS State and County of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS State of Occurrence and Residence are the same, but County is different.
						3	INTERSTATE NONRESIDENTS State of Occurrence and Residence are different, but both are in the U.S.
						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 U.S.
			Puerto Rico Occurrence			1	RESIDENTS Territory and County-equivalent of Occurrence and Residence are the same.
* U,R			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
U			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
R			Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						2	INTRASTATE NONRESIDENTS Territory of Occurrence and Residence are the same, but County-equivalent is different.
						3	INTERTERRITORY NONRESIDENTS Territory of occurrence and residence are different, but both are a Territory.
						4	FOREIGN RESIDENTS Occurred in Puerto Rico to a resident of any other place.
			Virgin Islands Occurrence			1	RESIDENTS Territory and County-equivalent of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS Territory of Occurrence and Residence are the same, but County-equivalent is different.
						3	INTERTERRITORY NONRESIDENTS Territory of occurrence and residence are different, but both are a Territory.
						4	FOREIGN RESIDENTS Occurred in Virgin Islands to a resident of any other place.
			Guam Occurrence			1	RESIDENTS Occurred in Guam to a resident of Guam or to a resident of the U.S.
						3	INTERTERRITORY NONRESIDENTS Territory of occurrence and residence are different, but both are a Territory.
						4	FOREIGN RESIDENTS Occurred in Guam to a resident of any place other than Guam or the U.S.
1152-1153	2	STOCCFIPD	State of Occurrence (FIPS) of Death (This item is available in the territory file only, geographic codes are not available in the U.S.file)				
						PR	Puerto Rico
						VI	Virgin Islands
						GU	Guam
1154-1156	3	CNTOCFIPD	County of Occurrence (FIPS) of Death				
		* U,R	Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
		U	Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
		R	Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State and identify each county. (Note: To uniquely identify a county, both the state and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document.				
			(This item is available in the territory file only, geographic codes are not available in the U.S.file)				
						001-999	Code range County of less than 250,000
1157-1159	3	FILLER	Filler				
1160-1161	2	STRESFIPD	State of Residence (FIPS) (This item is available in the territory file only, geographic codes are not available in the U.S.file)				
			Territories			PR VI GU	Puerto Rico Virgin Islands Guam
			Puerto Rico Occurrence			PR US,ZZ	Puerto Rico Foreign residents
			Virgin Islands Occurrence			VI US, ZZ	Virgin Islands Foreign residents
			Guam Occurrence			GU US ZZ	Guam U.S. resident. Also considered a resident of Guam. Foreign residents
1162-1163	2	FILLER	Filler				
1164-1165	2	DRCNTY	State/Country of Residence of Death Recode (This item is available in the territory file only, geographic codes are not				
		* U,R	Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
		U	Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
		R	Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			available in the U.S.file)				
			Territorial residents			PR VI GU	Puerto Rico Virgin Islands Guam
			Foreign residents			CC MX CU YY	Canada Mexico Cuba Remainder of the world
			Puerto Rico Occurrence			PR US,ZZ	Puerto Rico Foreign residents
			Virgin Islands Occurrence			VI US, ZZ	Virgin Islands Foreign residents
			Guam Occurrence			GU US ZZ	Guam U.S. resident. Also considered a resident of Guam Foreign residents

1166-1167 3 CNTYRFPD **County of Residence (FIPS) of Death**
 Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State and identify each county. (Note: To uniquely identify a county, both the state and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document.

(This item is available in the territory file only, geographic codes are not available in the U.S.file)

000 Foreign residents
 001-nnn Code range
 999 County of less than 250,000

1169-1181 13 FILLER **Filler**

1182 1 CNTRSPPD **Population Size of County of Residence of Death**
 Based on the results of the 2000 Census

- * U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).
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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			(This item is available in the territory file only, geographic codes are not available in the U.S.file)			0	County of 1,000,000 or more
						1	County of 500,000 to 1,000,000
						2	County of 250,000 to 500,000
						9	County of less than 250,000
						Z	Foreign residents
1183-1185	3	FILLER	Filler				
1186	1	HOSPD	Place of Death and Decedent's Status			1	Hospital, clinic or Medical Center – Inpatient
						2	Hospital, clinic or Medical Center – Outpatient or admitted to Emergency Room
						3	Hospital, clinic or Medical Center – Dead on Arrival
						4	Decedent's home
						5	Hospice facility
						6	Nursing home/long term care
						7	Other
						9	Place of death unknown
1187	1	WEEKDAYD	Day of Week of Death			1	Sunday
						2	Monday
						3	Tuesday
						4	Wednesday
						5	Thursday
						6	Friday
						7	Saturday
						9	Unknown
1188-1191	4	DTHYR	Death Year			2006	2006
1192-1257	66	FILLER	Filler				
1258-1259	2	DOD_MM	Month of Death			01	January
						02	February
						03	March
						04	April
						05	May
						06	June
						07	July

* U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).

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R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						08	August
						09	September
						10	October
						11	November
						12	December

* U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).

U Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.

R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

ST: 1 = Subtotal Limited: Sex: 1 = Males; 2 = Females
 Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and over
 4 = Under 1 year; 5 = 1-4 years; 6 = 1 year and over
 7 = 10 years and over

***** Cause Subtotals are not identified in this file *****

130 S Limited

Recode T Sex Age Cause Title and ICD-10 Codes Included

001	1	Certain infectious and parasitic diseases (A00-B99)
002		Certain intestinal infectious diseases (A00-A08)
003		Diarrhea and gastroenteritis of infectious origin (A09)
004		Tuberculosis (A16-A19)
005		Tetanus (A33,A35)
006		Diphtheria (A36)
007		Whooping cough (A37)
008		Meningococcal infection (A39)
009	3	Septicemia (A40-A41)
010		Congenital syphilis (A50)
011		Gonococcal infection (A54)
012	1	Viral diseases (A80-B34)
013		Acute poliomyelitis (A80)
014		Varicella (chickenpox) (B01)
015		Measles (B05)
016		Human immunodeficiency virus (HIV) disease (B20-B24)
017		Mumps (B26)
018		Other and unspecified viral diseases (A81-B00,B02-B04,B06-B19,B25,B27-B34)
019		Candidiasis (B37)
020		Malaria (B50-B54)
021		Pneumocystosis (B59)
022		All other and unspecified infectious and parasitic diseases (A20-A32,A38,A42-A49,A51-A53,A55-A79,B35-B36,B38-B49,B55-B58,B60-B99)
023	1	Neoplasms (C00-D48)
024	1	Malignant neoplasms (C00-C97)
025		Hodgkin's disease and non-Hodgkin's lymphomas (C81-C85)
026		Leukemia (C91-C95)
027		Other and unspecified malignant neoplasms (C00-C80,C88,C90,C96-C97)
028		In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)
029	1	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)
030		Anemias (D50-D64)
031		Hemorrhagic conditions and other diseases of blood and blood-forming organs (D65-D76)
032		Certain disorders involving the immune mechanism (D80-D89)
033	1	Endocrine, nutritional and metabolic diseases (E00-E88)
034		Short stature, not elsewhere classified (E34.3)
035		Nutritional deficiencies (E40-E64)
036		Cystic fibrosis (E84)
037	3	Volume depletion, disorders of fluid, electrolyte and acid-base balance (E86-E87)
038		All other endocrine, nutritional and metabolic diseases (E00-E32,E34.0-E34.2,E34.4-E34.9,E65-E83,E85,E88)
039	1	Diseases of the nervous system (G00-G98)
040		Meningitis (G00,G03)
041		Infantile spinal muscular atrophy, type I (Werdnig-Hoffman) (G12.0)
042		Infantile cerebral palsy (G80)
043		Anoxic brain damage, not elsewhere classified (G93.1)
044		Other diseases of nervous system (G04,G06-G11,G12.1-G12.9,G20-G72,G81-G92,G93.0,G93.2-G93.9,G95-G98)
045		Diseases of the ear and mastoid process (H60-H93)
046	1	Diseases of the circulatory system (I00-I99)
047		Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)
048		Pericarditis, endocarditis and myocarditis (I30,I33,I40)
049		Cardiomyopathy (I42)
050		Cardiac arrest (I46)
051		Cerebrovascular diseases (I60-I69)
052		All other diseases of circulatory system (I00-I25,I31,I34-I38,I44-I45,I47-I51, I70-I99)
053	1	Diseases of the respiratory system (J00-J98)
054		Acute upper respiratory infections (J00-J06)
055	1	Influenza and pneumonia (J10-J18)

Documentation Table 1. Live births and infant deaths by state of occurrence of birth and by state of residence at birth
 United States, Puerto Rico, Virgin Islands, and Guam, 2006 Period Data.
 (Residence of birth is of the mother)

State	Live births		Infant deaths			
	Occurrence	Residence	Unweighted Occurrence	Unweighted Residence	Weighted 1/ Occurrence	Weighted 1/ Residence
United States /2	4273264	4265593	28174	28144	28540	28509
Alabama	62100	63232	563	567	564	568
Alaska	10899	10996	72	75	74	77
Arizona	103143	102430	645	649	647	651
Arkansas	39746	40961	322	344	324	346
California	563522	562440	2740	2734	2842	2835
Colorado	71157	70751	426	406	428	408
Connecticut	42187	41820	255	258	255	258
Delaware	12418	11989	98	97	98	97
Dist of Columbia	14592	8523	153	101	153	101
Florida	237499	236802	1718	1708	1730	1720
Georgia	149920	148633	1210	1196	1214	1200
Hawaii	18987	18983	113	111	113	111
Idaho	23719	24184	150	164	151	165
Illinois	177235	180573	1236	1308	1245	1317
Indiana	89179	88632	694	695	700	701
Iowa	40620	40607	194	205	197	208
Kansas	41946	40968	299	290	302	293
Kentucky	56646	58250	372	433	376	438
Louisiana	63481	63378	604	599	637	631
Maine	14010	14151	85	88	86	89
Maryland	74082	77494	590	614	592	616
Massachusetts	78509	77677	381	375	383	377
Michigan	126393	127483	927	935	927	935
Minnesota	73474	73525	389	380	390	381
Mississippi	44863	46056	440	477	448	485
Missouri	82461	81388	648	604	650	606
Montana	12490	12508	77	74	78	75
Nebraska	26892	26727	147	148	147	148
Nevada	39690	40027	263	262	266	265
New Hampshire	14070	14378	81	85	81	85
New Jersey	111930	115021	592	620	598	626
New Mexico	29337	29936	149	167	152	171
New York	126445	130218	698	721	712	734
New York City	125503	119885	712	675	713	676
North Carolina	128999	127859	1042	1034	1043	1035
North Dakota	9875	8621	53	51	53	51
Ohio	151347	150599	1189	1141	1218	1168
Oklahoma	53042	54019	417	422	425	430
Oregon	49092	48691	277	262	277	262
Pennsylvania	148522	149094	1159	1126	1174	1141
Rhode Island	13180	12373	87	77	87	77
South Carolina	59573	62173	487	515	489	517
South Dakota	12386	11919	90	82	90	82
Tennessee	89429	84355	826	730	826	730
Texas	405879	399613	2420	2397	2498	2474
Utah	54528	53504	291	274	291	274
Vermont	6114	6511	27	37	27	37
Virginia	105890	107817	733	765	733	765
Washington	86800	86876	397	406	399	408
West Virginia	21134	20931	152	148	152	148
Wisconsin	71236	72340	450	460	451	461
Wyoming	7093	7672	34	52	34	52
Foreign Residents	-	7671	-	30	-	30
Puerto Rico	48745	48597	428	419	428	419
Virgin Islands	1764	1687	8	9	8	9
Guam	3411	3387	44	44	44	44

1/ Figures are based on weighted data rounded to the nearest infant, so categories may not add to totals

2/ Excludes data for Puerto Rico, Virgin Islands and Guam.

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child: United States, 2006 Period Data.

[Infant death are weighted. Rates are per 1000 live births]

Race of mother and sex	Total	<500 grams	500-749 grams	750-999 grams	1000-1249 grams	1250-1499 grams	1500-1999 grams	2000-2499 grams	2500 grams or more	Not Stated
All races										
Both sexes										
Live births.....	4,265,593	7,294	11,782	12,737	14,910	17,733	69,555	219,449	3911038	1,095
Infant deaths.....	28,509	6,177	5,507	1,916	1,040	857	1,810	2,268	8,779	154
Infant mortality rate....	6.68	846.86	467.41	150.43	69.75	48.33	26.02	10.33	2.24	140.64
Male										
Live births.....	2,184,260	3,664	5,970	6,583	7,573	8,871	33,734	100,996	2016267	602
Infant deaths.....	15,973	3,168	3,176	1,230	610	430	943	1,184	5,121	110
Infant mortality rate....	7.31	864.63	531.99	186.84	80.55	48.47	27.95	11.72	2.54	182.72
Female										
Live births.....	2,081,333	3,630	5,812	6,154	7,337	8,862	35,821	118,453	1894771	493
Infant deaths.....	12,536	3,010	2,331	685	430	427	867	1,083	3,658	45
Infant mortality rate....	6.02	829.20	401.07	111.31	58.61	48.18	24.20	9.14	1.93	91.28
White										
Both sexes										
Live births.....	3,310,331	4,020	6,874	7,898	9,691	11,883	47,385	151,559	3070169	852
Infant deaths.....	18,422	3,429	3,324	1,216	678	565	1,237	1,540	6,331	103
Infant mortality rate....	5.57	852.99	483.56	153.96	69.96	47.55	26.11	10.16	2.06	120.89
Male										
Live births.....	1,695,886	1,996	3,487	4,091	4,974	5,986	23,124	70,144	1581629	455
Infant deaths.....	10,384	1,753	1,920	791	399	279	648	826	3,699	69
Infant mortality rate....	6.12	878.26	550.62	193.35	80.22	46.61	28.02	11.78	2.34	151.65
Female										
Live births.....	1,614,445	2,024	3,387	3,807	4,717	5,897	24,261	81,415	1488540	397
Infant deaths.....	8,039	1,677	1,403	425	279	287	588	714	2,632	34
Infant mortality rate....	4.98	828.56	414.23	111.64	59.15	48.67	24.24	8.77	1.77	85.64
Black										
Both sexes										
Live births.....	666,494	2,948	4,364	4,177	4,409	4,812	17,825	52,405	575,385	169
Infant deaths.....	8,595	2,486	1,946	599	314	230	461	598	1,918	44
Infant mortality rate....	12.90	843.28	445.92	143.40	71.22	47.80	25.86	11.41	3.33	260.36
Male										
Live births.....	339,844	1,492	2,196	2,139	2,158	2,347	8,426	23,510	297,468	108
Infant deaths.....	4,726	1,266	1,118	374	181	117	237	291	1,108	35
Infant mortality rate....	13.91	848.53	509.11	174.85	83.87	49.85	28.13	12.38	3.72	324.07
Female										
Live births.....	326,650	1,456	2,168	2,038	2,251	2,465	9,399	28,895	277,917	61
Infant deaths.....	3,869	1,219	828	225	133	113	225	307	809	9
Infant mortality rate....	11.84	837.23	381.92	110.40	59.08	45.84	23.94	10.62	2.91	*

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child: United States, 2006 Period Data.

[Infant death are weighted. Rates are per 1000 live births]

Race of mother and sex	Total	<500 grams	500-749 grams	750-999 grams	1000-1249 grams	1250-1499 grams	1500-1999 grams	2000-2499 grams	2500 grams or more	Not Stated
American Indian /1										
Both sexes										
Live births.....	47,720	63	97	133	150	181	729	2,248	44,111	8
Infant deaths.....	395	55	44	23	10	10	18	37	198	0
Infant mortality rate....	8.28	873.02	453.61	172.93	*	*	*	16.46	4.49	*
Male										
Live births.....	24,308	31	57	74	91	94	386	1,102	22,470	3
Infant deaths.....	232	28	24	16	7	5	10	22	118	0
Infant mortality rate....	9.54	903.23	421.05	*	*	*	*	19.96	5.25	*
Female										
Live births.....	23,412	32	40	59	59	87	343	1,146	21,641	5
Infant deaths.....	163	26	19	7	3	5	8	15	79	0
Infant mortality rate....	6.96	812.50	*	*	*	*	*	*	3.65	*
Asian or Pacific Islander										
Both sexes										
Live births.....	241,048	263	447	529	660	857	3,616	13,237	221,373	66
Infant deaths.....	1,097	208	194	77	39	52	94	92	333	8
Infant mortality rate....	4.55	790.87	434.00	145.56	59.09	60.68	26.00	6.95	1.50	*
Male										
Live births.....	124,222	145	230	279	350	444	1,798	6,240	114,700	36
Infant deaths.....	632	120	114	50	24	29	48	46	195	6
Infant mortality rate....	5.09	827.59	495.65	179.21	68.57	65.32	26.70	7.37	1.70	*
Female										
Live births.....	116,826	118	217	250	310	413	1,818	6,997	106,673	30
Infant deaths.....	465	88	80	27	15	22	46	47	138	2
Infant mortality rate....	3.98	745.76	368.66	108.00	*	53.27	25.30	6.72	1.29	*

* Figure does not meet standard of reliability or precision; based on fewer than 20 deaths in the numerator

- Quantity zero

/1 Includes Aleut and Eskimos

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United States, 2006 period data

[Infant deaths weighted. Rates are per 1000 live births]

Birthweight	Gestation									
	Total	<28 Weeks	28-31 Weeks	32-33 Weeks	34-36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
All races										
Total										
Live births	4,265,593	32,057	54,490	68,579	387,791	2,303,021	800,019	353,384	240,589	25,663
Infant deaths	28,509	12,856	2,371	1,110	2,746	5,937	1,519	816	674	481
Infant mortality rate	6.68	401.04	43.51	16.19	7.08	2.58	1.90	2.31	2.80	18.74
Less than 2,500 grams										
Live births	353,460	30,883	41,363	44,819	117,858	92,055	11,952	5,390	6,261	2,879
Infant deaths	19,576	12,841	2,268	931	1,595	1,272	205	113	108	241
Infant mortality rate	55.38	415.80	54.83	20.77	13.53	13.82	17.15	20.96	17.25	83.71
Less than 500 grams										
Live births	7,294	6,898	234	12	18	16	1	2	4	109
Infant deaths	6,177	5,899	151	11	16	13	1	2	2	82
Infant mortality rate	846.86	855.18	645.30	*	*	*	*	*	*	752.29
500-749 grams										
Live births	11,782	10,135	1,310	87	65	20	10	2	5	148
Infant deaths	5,507	5,000	360	35	23	5	2	2	4	75
Infant mortality rate	467.41	493.34	274.81	402.30	353.85	*	*	*	*	506.76
750-999 grams										
Live births	12,737	7,693	4,249	319	120	134	46	23	12	141
Infant deaths	1,916	1,385	424	43	21	16	6	2	-	19
Infant mortality rate	150.43	180.03	99.79	134.80	175.00	*	*	*	-	*
1,000-1,249 grams										
Live births	14,910	3,433	8,108	1,625	833	425	144	89	91	162
Infant deaths	1,040	353	441	94	94	31	5	7	2	13
Infant mortality rate	69.75	102.83	54.39	57.85	112.85	72.94	*	*	*	*
1,250-1,499 grams										
Live births	17,733	966	9,376	3,701	2,313	775	198	112	152	140
Infant deaths	857	100	352	156	154	66	12	5	5	7
Infant mortality rate	48.33	103.52	37.54	42.15	66.58	85.16	*	*	*	*
1,500-1,999 grams										
Live births	69,555	1,051	13,480	20,067	23,529	8,356	1,094	547	830	601
Infant deaths	1,810	82	405	352	506	333	52	28	28	24
Infant mortality rate	26.02	78.02	30.04	17.54	21.51	39.85	47.53	51.19	33.73	39.93
2,000-2,499 grams										
Live births	219,449	707	4,606	19,008	90,980	82,329	10,459	4,615	5,167	1,578
Infant deaths	2,268	22	135	239	781	809	127	67	67	22
Infant mortality rate	10.33	31.12	29.31	12.57	8.58	9.83	12.14	14.52	12.97	13.94
2,500-2,999 grams										
Live births	786,117	1,174	4,712	10,198	131,031	470,809	92,672	37,067	33,787	4,667
Infant deaths	3,153	15	56	103	681	1,663	304	162	140	29
Infant mortality rate	4.01	*	11.88	10.10	5.20	3.53	3.28	4.37	4.14	6.21
3,000-3,499 grams										
Live births	1,657,170	-	5,662	8,822	95,270	989,448	321,271	132,721	95,019	8,957
Infant deaths	3,499	-	33	49	331	1,960	589	273	234	29
Infant mortality rate	2.11	-	5.83	5.55	3.47	1.98	1.83	2.06	2.46	3.24

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United States, 2006 period data

[Infant deaths weighted. Rates are per 1000 live births]-Cont

Birthweight	Gestation									
	Total	<28 Weeks	28-31 Weeks	32-33 Weeks	34-36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
All races										
3,500-3,999 grams										
Live births	1,134,511	-	2,753	3,790	35,543	596,548	282,335	128,671	78,643	6,228
Infant deaths	1,636	-	13	19	106	818	318	201	141	19
Infant mortality rate	1.44	-	*	*	2.98	1.37	1.13	1.56	1.79	*
4,000-4,499 grams										
Live births	287,710	-	-	806	6,854	133,854	79,632	42,178	22,831	1,555
Infant deaths	390	-	-	3	26	182	83	52	39	4
Infant mortality rate	1.36	-	-	*	3.79	1.36	1.04	1.23	1.71	*
4,500-4,999 grams										
Live births	40,972	-	-	125	1,043	18,116	11,131	6,693	3,622	242
Infant deaths	76	-	-	3	3	31	17	12	9	-
Infant mortality rate	1.85	-	-	*	*	1.71	*	*	*	-
5,000 grams or more										
Live births	4,558	-	-	19	192	2,191	1,026	664	426	40
Infant deaths	25	-	-	1	3	9	2	3	3	3
Infant mortality rate	5.48	-	-	*	*	*	*	*	*	*
Not stated										
Live births	1,095	-	-	-	-	-	-	-	-	1,095
Infant deaths	154	-	-	-	-	-	-	-	-	154
Infant mortality rate	140.64	-	-	-	-	-	-	-	-	140.64
White										
Total										
Live births	3,310,331	18,951	36,805	48,264	285,839	1,792,662	633,749	282,918	190,709	20,434
Infant deaths	18,422	7,498	1,550	764	1,890	4,198	1,109	581	505	329
Infant mortality rate	5.57	395.65	42.11	15.83	6.61	2.34	1.75	2.05	2.65	16.10
Less than 2,500 grams										
Live births	239,310	18,189	27,659	31,412	82,340	61,725	8,009	3,575	4,313	2,088
Infant deaths	11,989	7,489	1,484	646	1,075	845	131	80	73	166
Infant mortality rate	50.10	411.73	53.65	20.57	13.06	13.69	16.36	22.38	16.93	79.50
Less than 500 grams										
Live births	4,020	3,786	137	8	9	7	1	1	2	69
Infant deaths	3,429	3,264	90	8	8	6	1	1	1	50
Infant mortality rate	852.99	862.12	656.93	*	*	*	*	*	*	724.64
500-749 grams										
Live births	6,874	5,851	793	60	41	9	7	2	4	107
Infant deaths	3,324	2,999	219	25	18	2	1	1	3	54
Infant mortality rate	483.56	512.56	276.17	416.67	*	*	*	*	*	504.67
750-999 grams										
Live births	7,898	4,716	2,646	208	79	88	35	19	8	99
Infant deaths	1,216	878	272	31	9	11	4	1	-	10
Infant mortality rate	153.96	186.17	102.80	149.04	*	*	*	*	-	*
1,000-1,249 grams										
Live births	9,691	2,183	5,290	1,058	549	268	90	60	65	128
Infant deaths	678	215	294	62	67	19	3	4	2	11
Infant mortality rate	69.96	98.49	55.58	58.60	122.04	*	*	*	*	*

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United States, 2006 period data

[Infant deaths weighted. Rates are per 1000 live births]-Cont

Birthweight	Gestation									
	Total	<28 Weeks	28-31 Weeks	32-33 Weeks	34-36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
White										
1,250-1,499 grams										
Live births	11,883	595	6,318	2,491	1,544	521	136	74	104	100
Infant deaths	565	65	236	101	101	46	6	4	3	4
Infant mortality rate	47.55	109.24	37.35	40.55	65.41	88.29	*	*	*	*
1,500-1,999 grams										
Live births	47,385	616	9,397	13,806	15,857	5,589	754	367	560	439
Infant deaths	1,237	49	282	249	338	225	36	18	20	19
Infant mortality rate	26.11	79.55	30.01	18.04	21.32	40.26	47.75	*	35.71	*
2,000-2,499 grams										
Live births	151,559	442	3,078	13,781	64,261	55,243	6,986	3,052	3,570	1,146
Infant deaths	1,540	18	92	169	533	536	80	51	44	17
Infant mortality rate	10.16	*	29.89	12.26	8.29	9.70	11.45	16.71	12.32	*
2,500-2,999 grams										
Live births	556,908	762	3,048	6,918	96,325	331,766	64,482	26,184	23,952	3,471
Infant deaths	2,145	9	35	67	476	1,139	198	104	98	18
Infant mortality rate	3.85	*	11.48	9.68	4.94	3.43	3.07	3.97	4.09	*
3,000-3,499 grams										
Live births	1,282,104	-	3,968	6,282	72,634	767,984	247,503	102,830	73,765	7,138
Infant deaths	2,507	-	21	34	233	1,403	431	185	178	21
Infant mortality rate	1.96	-	5.29	5.41	3.21	1.83	1.74	1.80	2.41	2.94
3,500-3,999 grams										
Live births	943,506	-	2,130	2,889	28,016	498,300	234,217	107,283	65,390	5,281
Infant deaths	1,278	-	9	12	81	629	264	157	112	14
Infant mortality rate	1.35	-	*	*	2.89	1.26	1.13	1.46	1.71	*
4,000-4,499 grams										
Live births	248,421	-	-	646	5,510	115,553	68,975	36,585	19,798	1,354
Infant deaths	328	-	-	3	21	156	70	43	31	4
Infant mortality rate	1.32	-	-	*	3.81	1.35	1.01	1.18	1.57	*
4,500-4,999 grams										
Live births	35,400	-	-	103	853	15,537	9,675	5,884	3,134	214
Infant deaths	55	-	-	2	2	19	13	10	8	-
Infant mortality rate	1.55	-	-	*	*	*	*	*	*	-
5,000 grams or more										
Live births	3,830	-	-	14	161	1,797	888	577	357	36
Infant deaths	17	-	-	-	2	6	2	2	3	2
Infant mortality rate	*	-	-	-	*	*	*	*	*	*
Not stated										
Live births	852	-	-	-	-	-	-	-	-	852
Infant deaths	103	-	-	-	-	-	-	-	-	103
Infant mortality rate	120.89	-	-	-	-	-	-	-	-	120.89
Black										
Total										
Live births	666,494	11,580	14,714	16,129	77,746	349,822	111,018	47,661	34,959	2,865
Infant deaths	8,595	4,790	690	276	708	1,385	307	179	134	127
Infant mortality rate	12.90	413.64	46.89	17.11	9.11	3.96	2.77	3.76	3.83	44.33

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United states, 2006 period data

[Infant deaths weighted. Rates are per 1000 live births]-Cont

Birthweight	Gestation									
	Total	<28 Weeks	28-31 Weeks	32-33 Weeks	34-36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
Black										
Less than 2,500 grams										
Live births	90,940	11,227	11,525	10,793	27,812	23,016	3,071	1,407	1,575	514
Infant deaths	6,634	4,784	666	224	433	348	57	30	29	62
Infant mortality rate	72.95	426.12	57.79	20.75	15.57	15.12	18.56	21.32	18.41	120.62
Less than 500 grams										
Live births	2,948	2,804	93	1	9	7	-	-	-	34
Infant deaths	2,486	2,382	58	1	8	7	-	-	-	29
Infant mortality rate	843.28	849.50	623.66	*	*	*	-	-	-	852.94
500-749 grams										
Live births	4,364	3,824	454	22	21	9	3	-	1	30
Infant deaths	1,946	1,784	127	8	5	3	1	1	1	15
Infant mortality rate	445.92	466.53	279.74	*	*	*	*	*	*	*
750-999 grams										
Live births	4,177	2,584	1,391	86	33	38	7	3	2	33
Infant deaths	599	437	135	7	9	3	2	1	-	4
Infant mortality rate	143.40	169.12	97.05	*	*	*	*	*	-	*
1,000-1,249 grams										
Live births	4,409	1,085	2,388	460	229	131	45	24	22	25
Infant deaths	314	126	119	29	22	10	2	3	-	2
Infant mortality rate	71.22	116.13	49.83	63.04	96.07	*	*	*	-	*
1,250-1,499 grams										
Live births	4,812	316	2,561	973	611	207	50	30	38	26
Infant deaths	230	25	96	40	44	15	5	1	2	2
Infant mortality rate	47.80	79.11	37.49	41.11	72.01	*	*	*	*	*
1,500-1,999 grams										
Live births	17,825	376	3,381	5,069	6,071	2,189	277	153	218	91
Infant deaths	461	24	100	83	135	86	13	8	7	5
Infant mortality rate	25.86	63.83	29.58	16.37	22.24	39.29	*	*	*	*
2,000-2,499 grams										
Live births	52,405	238	1,257	4,182	20,838	20,435	2,689	1,197	1,294	275
Infant deaths	598	4	30	57	210	223	34	16	19	4
Infant mortality rate	11.41	*	23.87	13.63	10.08	10.91	12.64	*	*	*
2,500-2,999 grams										
Live births	165,410	353	1,384	2,578	26,379	98,849	19,872	7,977	7,366	652
Infant deaths	835	6	13	30	168	445	86	45	33	9
Infant mortality rate	5.05	*	*	11.64	6.37	4.50	4.33	5.64	4.48	*
3,000-3,499 grams										
Live births	255,831	-	1,343	1,984	16,956	149,934	49,451	20,294	14,924	945
Infant deaths	764	-	9	13	79	432	115	65	44	6
Infant mortality rate	2.99	-	*	*	4.66	2.88	2.33	3.20	2.95	*
3,500-3,999 grams										
Live births	125,072	-	462	645	5,485	64,343	30,949	13,910	8,801	477
Infant deaths	262	-	2	6	22	135	38	30	22	5
Infant mortality rate	2.09	-	*	*	4.01	2.10	1.23	2.16	2.50	*

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United states, 2006 period data

[Infant deaths weighted. Rates are per 1000 live births]-Cont

Birthweight	Gestation									
	Total	<28 Weeks	28-31 Weeks	32-33 Weeks	34-36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
Black										
4,000-4,499 grams										
Live births	25,101	-	-	106	969	11,780	6,685	3,537	1,931	93
Infant deaths	35	-	-	-	4	15	7	5	4	-
Infant mortality rate	1.39	-	-	-	*	*	*	*	*	-
4,500-4,999 grams										
Live births	3,499	-	-	19	125	1,636	906	486	316	11
Infant deaths	15	-	-	1	1	8	3	1	1	-
Infant mortality rate	*	-	-	*	*	*	*	*	*	-
5,000 grams or more										
Live births	472	-	-	4	20	264	84	50	46	4
Infant deaths	6	-	-	1	1	2	-	1	-	1
Infant mortality rate	*	-	-	*	*	*	-	*	-	*
Not stated										
Live births	169	-	-	-	-	-	-	-	-	169
Infant deaths	44	-	-	-	-	-	-	-	-	44
Infant mortality rate	260.36	-	-	-	-	-	-	-	-	260.36
American Indian¹										
Total										
Live births	47,720	344	664	874	4,848	24,410	8,696	4,186	3,451	247
Infant deaths	395	122	19	14	47	117	46	19	11	1
Infant mortality rate	8.28	354.65	*	*	9.69	4.79	5.29	*	*	*
Less than 2,500 grams										
Live births	3,601	324	408	459	1,182	945	124	66	69	24
Infant deaths	197	122	15	11	23	20	4	-	1	1
Infant mortality rate	54.71	376.54	*	*	19.46	21.16	*	-	*	*
Less than 500 grams										
Live births	63	60	1	1	-	-	-	-	-	1
Infant deaths	55	55	-	-	-	-	-	-	-	-
Infant mortality rate	873.02	916.67	-	-	-	-	-	-	-	-
500-749 grams										
Live births	97	86	7	2	1	-	-	-	-	1
Infant deaths	44	41	1	-	-	-	-	-	-	1
Infant mortality rate	453.61	476.74	*	-	-	-	-	-	-	*
750-999 grams										
Live births	133	93	32	4	1	3	-	-	-	-
Infant deaths	23	22	1	-	-	-	-	-	-	-
Infant mortality rate	172.93	236.56	*	-	-	-	-	-	-	-
1,000-1,249 grams										
Live births	150	48	61	15	14	7	5	-	-	-
Infant deaths	10	3	6	-	1	-	-	-	-	-
Infant mortality rate	*	*	*	-	*	-	-	-	-	-
1,250-1,499 grams										
Live births	181	13	90	38	23	11	2	2	2	-
Infant deaths	10	-	2	3	3	2	-	-	-	-
Infant mortality rate	*	-	*	*	*	*	-	-	-	-

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United States, 2006 period data

[Infant deaths weighted. Rates are per 1000 live births]-Cont

Birthweight	Gestation									
	Total	<28 Weeks	28-31 Weeks	32-33 Weeks	34-36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
American Indian ¹										
1,500-1,999 grams										
Live births	729	17	152	190	242	98	7	6	8	9
Infant deaths	18	-	3	5	8	2	-	-	-	-
Infant mortality rate	*	-	*	*	*	*	-	-	-	-
2,000-2,499 grams										
Live births	2,248	7	65	209	901	826	110	58	59	13
Infant deaths	37	-	2	3	11	16	4	-	1	-
Infant mortality rate	16.46	-	*	*	*	*	*	-	*	-
2,500-2,999 grams										
Live births	8,077	20	87	158	1,457	4,529	916	396	463	51
Infant deaths	58	-	2	1	14	23	8	6	3	-
Infant mortality rate	7.18	-	*	*	*	5.08	*	*	*	-
3,000-3,499 grams										
Live births	17,799	-	122	137	1,377	9,977	3,300	1,495	1,304	87
Infant deaths	77	-	1	1	6	41	20	4	4	-
Infant mortality rate	4.33	-	*	*	*	4.11	6.06	*	*	-
3,500-3,999 grams										
Live births	13,575	-	47	92	654	6,779	3,207	1,555	1,183	58
Infant deaths	44	-	1	1	3	22	9	7	-	-
Infant mortality rate	3.24	-	*	*	*	3.25	*	*	-	-
4,000-4,499 grams										
Live births	3,857	-	-	24	148	1,801	966	544	359	15
Infant deaths	13	-	-	-	-	6	3	1	3	-
Infant mortality rate	*	-	-	-	-	*	*	*	*	-
4,500-4,999 grams										
Live births	712	-	-	3	27	327	165	119	67	4
Infant deaths	5	-	-	-	-	3	1	1	-	-
Infant mortality rate	*	-	-	-	-	*	*	*	-	-
5,000 grams or more										
Live births	91	-	-	1	3	52	18	11	6	-
Infant deaths	1	-	-	-	-	1	-	-	-	-
Infant mortality rate	*	-	-	-	-	*	-	-	-	-
Not stated										
Live births	8	-	-	-	-	-	-	-	-	8
Infant deaths	-	-	-	-	-	-	-	-	-	-
Infant mortality rate	-	-	-	-	-	-	-	-	-	-
Asian or Pacific Islander										
Total										
Live births	241,048	1,182	2,307	3,312	19,358	136,127	46,556	18,619	11,470	2,117
Infant deaths	1,097	447	112	56	102	237	58	37	24	24
Infant mortality rate	4.55	378.17	48.55	16.91	5.27	1.74	1.25	1.99	2.09	11.34
Less than 2,500 grams										
Live births	19,609	1,143	1,771	2,155	6,524	6,369	748	342	304	253
Infant deaths	756	447	103	50	64	59	13	3	5	13
Infant mortality rate	38.55	391.08	58.16	23.20	9.81	9.26	*	*	*	*

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United states, 2006 period data

[Infant deaths weighted. Rates are per 1000 live births]-Cont

Birthweight	Gestation									
	Total	<28 Weeks	28-31 Weeks	32-33 Weeks	34-36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
Asian or Pacific Islander										
Less than 500 grams										
Live births	263	248	3	2	-	2	-	1	2	5
Infant deaths	208	198	3	2	-	-	-	1	1	3
Infant mortality rate	790.87	798.39	*	*	-	-	-	*	*	*
500-749 grams										
Live births	447	374	56	3	2	2	-	-	-	10
Infant deaths	194	175	13	2	-	-	-	-	-	4
Infant mortality rate	434.00	467.91	*	*	-	-	-	-	-	*
750-999 grams										
Live births	529	300	180	21	7	5	4	1	2	9
Infant deaths	77	48	16	4	3	2	-	-	-	4
Infant mortality rate	145.56	160.00	*	*	*	*	-	-	-	*
1,000-1,249 grams										
Live births	660	117	369	92	41	19	4	5	4	9
Infant deaths	39	9	22	3	3	1	-	-	-	-
Infant mortality rate	59.09	*	59.62	*	*	*	-	-	-	-
1,250-1,499 grams										
Live births	857	42	407	199	135	36	10	6	8	14
Infant deaths	52	9	18	13	6	3	1	-	-	1
Infant mortality rate	60.68	*	*	*	*	*	*	-	-	*
1,500-1,999 grams										
Live births	3,616	42	550	1,002	1,359	480	56	21	44	62
Infant deaths	94	8	19	15	26	19	3	2	1	-
Infant mortality rate	26.00	*	*	*	19.13	*	*	*	*	-
2,000-2,499 grams										
Live births	13,237	20	206	836	4,980	5,825	674	308	244	144
Infant deaths	92	-	10	10	26	34	9	-	3	-
Infant mortality rate	6.95	-	*	*	5.22	5.84	*	-	*	-
2,500-2,999 grams										
Live births	55,722	39	193	544	6,870	35,665	7,402	2,510	2,006	493
Infant deaths	115	-	6	5	23	57	12	6	5	1
Infant mortality rate	2.06	-	*	*	3.35	1.60	*	*	*	*
3,000-3,499 grams										
Live births	101,436	-	229	419	4,303	61,553	21,017	8,102	5,026	787
Infant deaths	151	-	2	1	14	84	22	18	7	2
Infant mortality rate	1.49	-	*	*	*	1.36	1.05	*	*	*
3,500-3,999 grams										
Live births	52,358	-	114	164	1,388	27,126	13,962	5,923	3,269	412
Infant deaths	53	-	1	-	-	31	7	7	6	-
Infant mortality rate	1.01	-	*	-	-	1.14	*	*	*	-
4,000-4,499 grams										
Live births	10,331	-	-	30	227	4,720	3,006	1,512	743	93
Infant deaths	13	-	-	-	1	5	3	3	1	-
Infant mortality rate	*	-	-	-	*	*	*	*	*	-

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United states, 2006 period data

[Infant deaths weighted. Rates are per 1000 live births]-Cont

Birthweight	Gestation									
	Total	<28 Weeks	28-31 Weeks	32-33 Weeks	34-36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
Asian or Pacific Islander										
4,500-4,999 grams										
Live births	1,361	-	-	-	38	616	385	204	105	13
Infant deaths	1	-	-	-	-	1	-	-	-	-
Infant mortality rate	*	-	-	-	-	*	-	-	-	-
5,000 grams or more										
Live births	165	-	-	-	8	78	36	26	17	-
Infant deaths	-	-	-	-	-	-	-	-	-	-
Infant mortality rate	-	-	-	-	-	-	-	-	-	-
Not stated										
Live births	66	-	-	-	-	-	-	-	-	66
Infant deaths	8	-	-	-	-	-	-	-	-	8
Infant mortality rate	*	-	-	-	-	-	-	-	-	*

-/ Quality zero.

*/Figure does not meet standard of reliability or precision; based on fewer than 20 death in the numerator.

¹/ Includes Aleuts and Eskimos.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2005 period data

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 1000 live births]

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
All races						
Total (all birthweights).....	4,265,593	28,509	19,041	15,148	3,893	9,468
Rate.....		6.68	4.46	3.55	0.91	2.22
Less than 2,500 grams.....	353,460	19,576	15,897	13,309	2,588	3,679
Rate.....		55.38	44.98	37.65	7.32	10.41
Less than 500 grams.....	7,294	6,177	6,017	5,827	189	160
Rate.....		846.86	824.92	798.88	25.91	21.94
500-749 grams.....	11,782	5,507	4,654	3,766	888	853
Rate.....		467.41	395.01	319.64	75.37	72.40
750-999 grams.....	12,737	1,916	1,414	947	467	501
Rate.....		150.43	111.02	74.35	36.66	39.33
1,000-1,249 grams.....	14,910	1,040	756	529	227	285
Rate.....		69.75	50.70	35.48	15.22	19.11
1,250-1,499 grams.....	17,733	857	624	471	153	233
Rate.....		48.33	35.19	26.56	8.63	13.14
1,500-1,999 grams.....	69,555	1,810	1,210	924	286	600
Rate.....		26.02	17.40	13.28	4.11	8.63
2,000-2,499 grams.....	219,449	2,268	1,222	844	378	1,046
Rate.....		10.33	5.57	3.85	1.72	4.77
2,500-2,999 grams.....	786,117	3,153	1,225	713	512	1,928
Rate.....		4.01	1.56	0.91	0.65	2.45
3,000-3,499 grams.....	1,657,170	3,499	1,100	586	515	2,399
Rate.....		2.11	0.66	0.35	0.31	1.45
3,500-3,999 grams.....	1,134,511	1,636	477	267	210	1,160
Rate.....		1.44	0.42	0.24	0.19	1.02
4,000-4,499 grams.....	287,710	390	143	93	50	247
Rate.....		1.36	0.50	0.32	0.17	0.86
4,500-4,999 grams.....	40,972	76	32	19	13	43
Rate.....		1.85	0.78	*	*	1.05
5,000 grams or more.....	4,558	25	19	15	4	5
Rate.....		5.48	*	*	*	*
Not stated.....	1,095	154	147	147	-	7
Rate.....		140.64	134.25	134.25	-	*

See footnotes at end of table.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2005 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 1000 live births]

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
White						
Total (all birthweights).....	3,310,331	18,422	12,292	9,760	2,533	6,130
Rate.....		5.57	3.71	2.95	0.77	1.85
Less than 2,500 grams.....	239,310	11,989	9,909	8,329	1,580	2,080
Rate.....		50.10	41.41	34.80	6.60	8.69
Less than 500 grams.....	4,020	3,429	3,376	3,271	105	53
Rate.....		852.99	839.80	813.68	26.12	13.18
500-749 grams.....	6,874	3,324	2,898	2,388	510	425
Rate.....		483.56	421.59	347.40	74.19	61.83
750-999 grams.....	7,898	1,216	936	656	279	281
Rate.....		153.96	118.51	83.06	35.33	35.58
1,000-1,249 grams.....	9,691	678	516	373	143	162
Rate.....		69.96	53.25	38.49	14.76	16.72
1,250-1,499 grams.....	11,883	565	424	329	95	141
Rate.....		47.55	35.68	27.69	7.99	11.87
1,500-1,999 grams.....	47,385	1,237	876	687	189	361
Rate.....		26.11	18.49	14.50	3.99	7.62
2,000-2,499 grams.....	151,559	1,540	883	624	259	657
Rate.....		10.16	5.83	4.12	1.71	4.33
2,500-2,999 grams.....	556,908	2,145	900	543	356	1,246
Rate.....		3.85	1.62	0.98	0.64	2.24
3,000-3,499 grams.....	1,282,104	2,507	848	467	381	1,659
Rate.....		1.96	0.66	0.36	0.30	1.29
3,500-3,999 grams.....	943,506	1,278	378	217	161	900
Rate.....		1.35	0.40	0.23	0.17	0.95
4,000-4,499 grams.....	248,421	328	123	81	41	206
Rate.....		1.32	0.50	0.33	0.17	0.83
4,500-4,999 grams.....	35,400	55	24	13	11	30
Rate.....		1.55	0.68	*	*	0.85
5,000 grams or more.....	3,830	17	13	11	2	4
Rate.....		*	*	*	*	*
Not stated.....	852	103	98	98	-	5
Rate.....		120.89	115.02	115.02	-	*

See footnotes at end of table.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2005 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 1000 live births]

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
Black						
Total (all birthweights).....	666,494	8,595	5,778	4,616	1,161	2,818
Rate.....		12.90	8.67	6.93	1.74	4.23
Less than 2,500 grams.....	90,940	6,634	5,198	4,318	880	1,436
Rate.....		72.95	57.16	47.48	9.68	15.79
Less than 500 grams.....	2,948	2,486	2,384	2,304	80	102
Rate.....		843.28	808.68	781.55	27.14	34.60
500-749 grams.....	4,364	1,946	1,540	1,195	345	406
Rate.....		445.92	352.89	273.83	79.06	93.03
750-999 grams.....	4,177	599	403	249	154	196
Rate.....		143.40	96.48	59.61	36.87	46.92
1,000-1,249 grams.....	4,409	314	203	126	76	111
Rate.....		71.22	46.04	28.58	17.24	25.18
1,250-1,499 grams.....	4,812	230	151	107	44	79
Rate.....		47.80	31.38	22.24	9.14	16.42
1,500-1,999 grams.....	17,825	461	257	178	79	205
Rate.....		25.86	14.42	9.99	4.43	11.50
2,000-2,499 grams.....	52,405	598	261	159	102	337
Rate.....		11.41	4.98	3.03	1.95	6.43
2,500-2,999 grams.....	165,410	835	259	131	128	576
Rate.....		5.05	1.57	0.79	0.77	3.48
3,000-3,499 grams.....	255,831	764	189	79	110	575
Rate.....		2.99	0.74	0.31	0.43	2.25
3,500-3,999 grams.....	125,072	262	67	31	35	195
Rate.....		2.09	0.54	0.25	0.28	1.56
4,000-4,499 grams.....	25,101	35	11	6	5	24
Rate.....		1.39	*	*	*	0.96
4,500-4,999 grams.....	3,499	15	7	5	2	8
Rate.....		*	*	*	*	*
5,000 grams or more.....	472	6	5	4	1	1
Rate.....		*	*	*	*	*
Not stated.....	169	44	42	42	-	2
Rate.....		260.36	248.52	248.52	-	*

See footnotes at end of table.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2005 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 1000 live births]

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
American Indian ¹						
Total (all birthweights).....	47,720	395	205	157	49	190
Rate.....		8.28	4.30	3.29	1.03	3.98
Less than 2,500 grams.....	3,601	197	156	132	24	42
Rate.....		54.71	43.32	36.66	6.66	11.66
Less than 500 grams.....	63	55	53	53	-	2
Rate.....		873.02	841.27	841.27	-	*
500-749 grams.....	97	44	40	36	4	3
Rate.....		453.61	412.37	371.13	*	*
750-999 grams.....	133	23	18	8	10	5
Rate.....		172.93	*	*	*	*
1,000-1,249 grams.....	150	10	9	7	2	1
Rate.....		*	*	*	*	*
1,250-1,499 grams.....	181	10	7	5	2	3
Rate.....		*	*	*	*	*
1,500-1,999 grams.....	729	18	9	7	2	9
Rate.....		*	*	*	*	*
2,000-2,499 grams.....	2,248	37	19	15	4	18
Rate.....		16.46	*	*	*	*
2,500-2,999 grams.....	8,077	58	19	11	8	38
Rate.....		7.18	*	*	*	4.70
3,000-3,499 grams.....	17,799	77	17	8	9	60
Rate.....		4.33	*	*	*	3.37
3,500-3,999 grams.....	13,575	44	10	5	5	34
Rate.....		3.24	*	*	*	2.50
4,000-4,499 grams.....	3,857	13	2	1	1	11
Rate.....		*	*	*	*	*
4,500-4,999 grams.....	712	5	-	-	-	5
Rate.....		*	-	-	-	*
5,000 grams or more.....	91	1	1	-	1	-
Rate.....		*	*	-	*	-
Not stated.....	8	-	-	-	-	-
Rate.....		-	-	-	-	-

See footnotes at end of table.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2005 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 1000 live births]

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
Asian or Pacific Islander						
Total (all birthweights).....	241,048	1,097	766	616	151	331
Rate.....		4.55	3.18	2.56	0.63	1.37
Less than 2,500 grams.....	19,609	756	634	530	104	122
Rate.....		38.55	32.33	27.03	5.30	6.22
Less than 500 grams.....	263	208	205	200	5	3
Rate.....		790.87	779.47	760.46	*	*
500-749 grams.....	447	194	175	147	28	19
Rate.....		434.00	391.50	328.86	62.64	*
750-999 grams.....	529	77	57	34	23	20
Rate.....		145.56	107.75	64.27	43.48	37.81
1,000-1,249 grams.....	660	39	28	23	5	11
Rate.....		59.09	42.42	34.85	*	*
1,250-1,499 grams.....	857	52	42	30	12	10
Rate.....		60.68	49.01	35.01	*	*
1,500-1,999 grams.....	3,616	94	69	52	16	25
Rate.....		26.00	19.08	14.38	*	6.91
2,000-2,499 grams.....	13,237	92	59	45	14	33
Rate.....		6.95	4.46	3.40	*	2.49
2,500-2,999 grams.....	55,722	115	48	27	20	68
Rate.....		2.06	0.86	0.48	0.36	1.22
3,000-3,499 grams.....	101,436	151	47	32	15	104
Rate.....		1.49	0.46	0.32	*	1.03
3,500-3,999 grams.....	52,358	53	21	13	8	31
Rate.....		1.01	0.40	*	*	0.59
4,000-4,499 grams.....	10,331	13	7	4	3	6
Rate.....		*	*	*	*	*
4,500-4,999 grams.....	1,361	1	1	1	-	-
Rate.....		*	*	*	-	-
5,000 grams or more.....	165	-	-	-	-	-
Rate.....		-	-	-	-	-
Not stated.....	66	8	8	8	-	-
Rate.....		*	*	*	-	-

See footnotes at end of table.

* / Figure does not meet standard of reliability or precision; based on fewer than 20 death in the numerator

- / Quantity zero

¹ / Includes Aleuts and Eskimos

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
All races						
All birthweights						
All Causes	4,265,593	28,509	19,041	15,148	3,893	9,468
		668.3	446.4	355.1	91.3	222.0
Congenital malformations (Q00-Q99).....		5,850	4,244	3,226	1,018	1,607
		137.1	99.5	75.6	23.9	37.7
Short gestation and low birthweight nec (P07).....		4,843	4,725	4,592	133	117
		113.5	110.8	107.7	3.1	2.7
Sudden infant death syndrome (R95).....		2,327	211	35	177	2,116
		54.6	4.9	0.8	4.1	49.6
Maternal complications of pregnancy (P01).....		1,676	1,656	1,622	33	20
		39.3	38.8	38.0	0.8	0.5
Complications of placenta, cord, membranes (P02).....		1,137	1,122	1,083	39	15
		26.7	26.3	25.4	0.9	*
Accidents (unintentional injuries) (V01-X59).....		1,143	115	30	85	1,028
		26.8	2.7	0.7	2.0	24.1
Respiratory distress of newborn (P22).....		828	813	643	170	15
		19.4	19.1	15.1	4.0	*
Bacterial sepsis of newborn (P36).....		810	768	337	431	42
		19.0	18.0	7.9	10.1	1.0
Neonatal hemorrhage (P50-P52, P54).....		622	608	437	170	14
		14.6	14.3	10.2	4.0	*
Diseases of the circulatory system (I00-I99).....		540	134	71	62	406
		12.7	3.1	1.7	1.5	9.5
All other causes.....		8,732	4,646	3,071	1,575	4,086
		204.7	108.9	72.0	36.9	95.8
Less than 2,500 grams						
All Causes	353,460	19,576	15,897	13,309	2,588	3,679
		5,538.4	4,497.5	3,765.3	732.2	1,040.9
Congenital malformations (Q00-Q99).....		3,574	2,871	2,381	490	703
		1,011.1	812.3	673.6	138.6	198.9
Short gestation and low birthweight nec (P07).....		4,738	4,622	4,490	132	115
		1,340.5	1,307.6	1,270.3	37.3	32.5
Sudden infant death syndrome (R95).....		480	41	8	32	439
		135.8	11.6	*	9.1	124.2
Maternal complications of pregnancy (P01).....		1,611	1,593	1,560	33	17
		455.8	450.7	441.4	9.3	*
Complications of placenta, cord, membranes (P02).....		1,034	1,023	996	27	11
		292.5	289.4	281.8	7.6	*
Accidents (unintentional injuries) (V01-X59).....		199	23	12	11	176
		56.3	6.5	*	*	49.8
Respiratory distress of newborn (P22).....		810	795	631	164	15
		229.2	224.9	178.5	46.4	*
Bacterial sepsis of newborn (P36).....		717	683	290	393	34
		202.9	193.2	82.0	111.2	9.6
Neonatal hemorrhage (P50-P52, P54).....		581	569	411	158	12
		164.4	161.0	116.3	44.7	*

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
All races						
Diseases of the circulatory system (I00-I99).....		264	63	40	23	201
		74.7	17.8	11.3	6.5	56.9
All other causes.....		5,568	3,613	2,489	1,124	1,955
		1,575.3	1,022.2	704.2	318.0	553.1
2,500 grams or more						
All Causes	3,911,038	8,779	2,997	1,692	1,305	5,782
		224.5	76.6	43.3	33.4	147.8
Congenital malformations (Q00-Q99).....		2,265	1,363	836	528	901
		57.9	34.9	21.4	13.5	23.0
Short gestation and low birthweight nec (P07).....		48	46	45	1	2
		1.2	1.2	1.2	*	*
Sudden infant death syndrome (R95).....		1,846	171	26	144	1,675
		47.2	4.4	0.7	3.7	42.8
Maternal complications of pregnancy (P01).....		35	32	32	-	3
		0.9	0.8	0.8	-	*
Complications of placenta, cord, membranes (P02).....		88	83	71	12	4
		2.3	2.1	1.8	*	*
Accidents (unintentional injures) (V01-X59).....		944	92	18	74	852
		24.1	2.4	*	1.9	21.8
Respiratory distress of newborn (P22).....		16	16	10	6	-
		*	*	*	*	-
Bacterial sepsis of newborn (P36).....		93	85	48	37	8
		2.4	2.2	1.2	0.9	*
Neonatal hemorrhage (P50-P52, P54).....		37	35	23	12	2
		0.9	0.9	0.6	*	*
Diseases of the circulatory system (I00-I99).....		275	70	30	39	206
		7.0	1.8	0.8	1.0	5.3
All other causes.....		3,132	1,003	552	451	2,128
		80.1	25.6	14.1	11.5	54.4
Not stated birthweight						
All Causes	1,095	154	147	147	-	7
		14,063.9	13,424.7	13,424.7	-	*
Congenital malformations (Q00-Q99).....		11	9	9	-	2
		*	*	*	-	*
Short gestation and low birthweight nec (P07).....		57	57	57	-	-
		5,205.5	5,205.5	5,205.5	-	-
Sudden infant death syndrome (R95).....		2	-	-	-	2
		*	-	-	-	*
Maternal complications of pregnancy (P01).....		30	30	30	-	-
		2,739.7	2,739.7	2,739.7	-	-
Complications of placenta, cord, membranes (P02).....		15	15	15	-	-
		*	*	*	-	-
Accidents (unintentional injures) (V01-X59).....		-	-	-	-	-
		-	-	-	-	-
Respiratory distress of newborn (P22).....		2	2	2	-	-
		*	*	*	-	-

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
All races						
Bacterial sepsis of newborn (P36).....	-	-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	3	3	3	3	-	-
Diseases of the circulatory system (I00-I99).....	1	1	1	1	-	-
All other causes.....	32	29	29	29	-	3
	2,922.4	2,648.4	2,648.4	2,648.4	-	*
White						
All birthweights						
All Causes	3,310,331	18,422	12,292	9,760	2,533	6,130
		556.5	371.3	294.8	76.5	185.2
Congenital malformations (Q00-Q99).....		4,377	3,235	2,494	741	1,142
		132.2	97.7	75.3	22.4	34.5
Short gestation and low birthweight nec (P07).....		2,674	2,612	2,540	72	62
		80.8	78.9	76.7	2.2	1.9
Sudden infant death syndrome (R95).....		1,553	143	30	113	1,410
		46.9	4.3	0.9	3.4	42.6
Maternal complications of pregnancy (P01).....		1,029	1,020	993	27	8
		31.1	30.8	30.0	0.8	*
Complications of placenta, cord, membranes (P02).....		701	695	670	25	6
		21.2	21.0	20.2	0.8	*
Accidents (unintentional injures) (V01-X59).....		744	85	23	62	659
		22.5	2.6	0.7	1.9	19.9
Respiratory distress of newborn (P22).....		518	508	405	103	10
		15.6	15.3	12.2	3.1	*
Bacterial sepsis of newborn (P36).....		495	472	218	254	22
		15.0	14.3	6.6	7.7	0.7
Neonatal hemorrhage (P50-P52, P54).....		422	413	298	115	9
		12.7	12.5	9.0	3.5	*
Diseases of the circulatory system (I00-I99).....		348	96	52	44	251
		10.5	2.9	1.6	1.3	7.6
All other causes.....		5,562	3,012	2,035	977	2,551
		168.0	91.0	61.5	29.5	77.1
Less than 2,500 grams						
All Causes	239,310	11,989	9,909	8,329	1,580	2,080
		5,009.8	4,140.7	3,480.4	660.2	869.2
Congenital malformations (Q00-Q99).....		2,628	2,150	1,813	337	478
		1,098.2	898.4	757.6	140.8	199.7
Short gestation and low birthweight nec (P07).....		2,615	2,553	2,481	72	62
		1,092.7	1,066.8	1,036.7	30.1	25.9
Sudden infant death syndrome (R95).....		278	25	6	19	252
		116.2	10.4	*	*	105.3
Maternal complications of pregnancy (P01).....		987	981	954	27	5
		412.4	409.9	398.6	11.3	*

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live	Total	Early	Late	Post-	
	Births	Infant	Neonatal	Neonatal	Neonatal	
White						
Complications of placenta, cord, membranes (P02).....	626 261.6	621 259.5	601 251.1	20 8.4	5 *	
Accidents (unintentional injures) (V01-X59).....	112 46.8	12 *	7 *	5 *	100 41.8	
Respiratory distress of newborn (P22).....	504 210.6	494 206.4	396 165.5	98 41.0	10 *	
Bacterial sepsis of newborn (P36).....	427 178.4	409 170.9	183 76.5	226 94.4	18 *	
Neonatal hemorrhage (P50-P52, P54).....	387 161.7	380 158.8	276 115.3	104 43.5	7 *	
Diseases of the circulatory system (I00-I99).....	161 67.3	46 19.2	31 13.0	15 *	115 48.1	
All other causes.....	3,265 1,364.3	2,238 935.2	1,580 660.2	658 275.0	1,027 429.2	
2,500 grams or more						
All Causes	3,070,169	6,331 206.2	2,286 74.5	1,333 43.4	953 31.0	4,045 131.8
Congenital malformations (Q00-Q99).....	1,738 56.6	1,077 35.1	672 21.9	405 13.2	661 21.5	
Short gestation and low birthweight nec (P07).....	24 0.8	24 0.8	24 0.8	- -	- -	
Sudden infant death syndrome (R95).....	1,274 41.5	117 3.8	23 0.7	94 3.1	1,157 37.7	
Maternal complications of pregnancy (P01).....	25 0.8	22 0.7	22 0.7	- -	3 *	
Complications of placenta, cord, membranes (P02).....	65 2.1	64 2.1	59 1.9	5 *	1 *	
Accidents (unintentional injures) (V01-X59).....	632 20.6	73 2.4	16 *	56 1.8	559 18.2	
Respiratory distress of newborn (P22).....	13 *	13 *	8 *	5 *	- -	
Bacterial sepsis of newborn (P36).....	68 2.2	64 2.1	35 1.1	28 0.9	4 *	
Neonatal hemorrhage (P50-P52, P54).....	32 1.0	30 1.0	19 *	11 *	2 *	
Diseases of the circulatory system (I00-I99).....	186 6.1	49 1.6	20 0.7	29 0.9	136 4.4	
All other causes.....	2,274 74.1	753 24.5	434 14.1	319 10.4	1,521 49.5	
Not stated birthweight						
All Causes	852	103 12,089.2	98 11,502.3	98 11,502.3	- -	5 *
Congenital malformations (Q00-Q99).....	10 *	8 *	8 *	- -	2 *	
Short gestation and low birthweight nec (P07).....	36 4,225.4	36 4,225.4	36 4,225.4	- -	- -	

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
White						
Sudden infant death syndrome (R95).....		1 *	- -	- -	- -	1 *
Maternal complications of pregnancy (P01).....		17 *	17 *	17 *	- -	- -
Complications of placenta, cord, membranes (P02).....		10 *	10 *	10 *	- -	- -
Accidents (unintentional injures) (V01-X59).....		- -	- -	- -	- -	- -
Respiratory distress of newborn (P22).....		1 *	1 *	1 *	- -	- -
Bacterial sepsis of newborn (P36).....		- -	- -	- -	- -	- -
Neonatal hemorrhage (P50-P52, P54).....		3 *	3 *	3 *	- -	- -
Diseases of the circulatory system (I00-I99).....		1 *	1 *	1 *	- -	- -
All other causes.....		23	21	21	-	2
		2,699.5	2,464.8	2,464.8	-	*
Black						
All birthweights						
All Causes	666,494	8,595 1,289.6	5,778 866.9	4,616 692.6	1,161 174.2	2,818 422.8
Congenital malformations (Q00-Q99).....		1,138 170.7	768 115.2	550 82.5	218 32.7	369 55.4
Short gestation and low birthweight nec (P07).....		1,938 290.8	1,884 282.7	1,829 274.4	55 8.3	54 8.1
Sudden infant death syndrome (R95).....		662 99.3	61 9.2	4 *	57 8.6	602 90.3
Maternal complications of pregnancy (P01).....		577 86.6	565 84.8	559 83.9	6 *	12 *
Complications of placenta, cord, membranes (P02).....		372 55.8	365 54.8	352 52.8	13 *	7 *
Accidents (unintentional injures) (V01-X59).....		331 49.7	28 4.2	7 *	21 3.2	303 45.5
Respiratory distress of newborn (P22).....		279 41.9	274 41.1	211 31.7	63 9.5	5 *
Bacterial sepsis of newborn (P36).....		279 41.9	261 39.2	104 15.6	157 23.6	18 *
Neonatal hemorrhage (P50-P52, P54).....		172 25.8	167 25.1	120 18.0	47 7.1	5 *
Diseases of the circulatory system (I00-I99).....		161 24.2	25 3.8	13 *	12 *	136 20.4
All other causes.....		2,685 402.9	1,379 206.9	868 130.2	511 76.7	1,306 196.0
Less than 2,500 grams						
All Causes	90,940	6,634 7,294.9	5,198 5,715.9	4,318 4,748.2	880 967.7	1,436 1,579.1

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
Black						
Congenital malformations (Q00-Q99).....		747	558	433	125	189
		821.4	613.6	476.1	137.5	207.8
Short gestation and low birthweight nec (P07).....		1,897	1,845	1,791	54	52
		2,086.0	2,028.8	1,969.4	59.4	57.2
Sudden infant death syndrome (R95).....		185	15	2	13	170
		203.4	*	*	*	186.9
Maternal complications of pregnancy (P01).....		560	548	542	6	12
		615.8	602.6	596.0	*	*
Complications of placenta, cord, membranes (P02).....		352	347	340	7	5
		387.1	381.6	373.9	*	*
Accidents (unintentional injures) (V01-X59).....		81	11	5	6	70
		89.1	*	*	*	77.0
Respiratory distress of newborn (P22).....		276	271	209	62	5
		303.5	298.0	229.8	68.2	*
Bacterial sepsis of newborn (P36).....		258	243	93	149	15
		283.7	267.2	102.3	163.8	*
Neonatal hemorrhage (P50-P52, P54).....		169	164	118	46	5
		185.8	180.3	129.8	50.6	*
Diseases of the circulatory system (I00-I99).....		91	12	6	6	79
		100.1	*	*	*	86.9
All other causes.....		2,019	1,184	779	405	835
		2,220.1	1,302.0	856.6	445.3	918.2
2,500 grams or more						
All Causes	575,385	1,918	538	257	281	1,380
		333.3	93.5	44.7	48.8	239.8
Congenital malformations (Q00-Q99).....		391	210	118	93	181
		68.0	36.5	20.5	16.2	31.5
Short gestation and low birthweight nec (P07).....		22	20	19	1	2
		3.8	3.5	*	*	*
Sudden infant death syndrome (R95).....		476	45	2	43	431
		82.7	7.8	*	7.5	74.9
Maternal complications of pregnancy (P01).....		8	8	8	-	-
		*	*	*	-	-
Complications of placenta, cord, membranes (P02).....		15	13	7	6	2
		*	*	*	*	*
Accidents (unintentional injures) (V01-X59).....		251	17	2	15	233
		43.6	*	*	*	40.5
Respiratory distress of newborn (P22).....		2	2	1	1	-
		*	*	*	*	-
Bacterial sepsis of newborn (P36).....		21	18	10	8	3
		3.6	*	*	*	*
Neonatal hemorrhage (P50-P52, P54).....		3	3	2	1	-
		*	*	*	*	-
Diseases of the circulatory system (I00-I99).....		71	13	7	6	57
		12.3	*	*	*	9.9
All other causes.....		657	187	80	107	470
		114.2	32.5	13.9	18.6	81.7

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live	Total	Early	Late	Post-	
	Births	Infant	Neonatal	Neonatal	Neonatal	
Black						
Not stated birthweight						
All Causes	169	44	42	42	-	2
		26,035.5	24,852.1	24,852.1	-	*
Congenital malformations (Q00-Q99).....		-	-	-	-	-
		-	-	-	-	-
Short gestation and low birthweight nec (P07).....		18	18	18	-	-
		*	*	*	-	-
Sudden infant death syndrome (R95).....		1	-	-	-	1
		*	-	-	-	*
Maternal complications of pregnancy (P01).....		9	9	9	-	-
		*	*	*	-	-
Complications of placenta, cord, membranes (P02).....		5	5	5	-	-
		*	*	*	-	-
Accidents (unintentional injures) (V01-X59).....		-	-	-	-	-
		-	-	-	-	-
Respiratory distress of newborn (P22).....		1	1	1	-	-
		*	*	*	-	-
Bacterial sepsis of newborn (P36).....		-	-	-	-	-
		-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....		-	-	-	-	-
		-	-	-	-	-
Diseases of the circulatory system (I00-I99).....		-	-	-	-	-
		-	-	-	-	-
All other causes.....		9	8	8	-	1
		*	*	*	-	*
American Indian¹						
All birthweights						
All Causes	47,720	395	205	157	49	190
		827.7	429.6	329.0	102.7	398.2
Congenital malformations (Q00-Q99).....		73	55	40	14	18
		153.0	115.3	83.8	*	*
Short gestation and low birthweight nec (P07).....		47	46	43	3	1
		98.5	96.4	90.1	*	*
Sudden infant death syndrome (R95).....		57	4	-	4	53
		119.4	*	-	*	111.1
Maternal complications of pregnancy (P01).....		13	13	13	-	-
		*	*	*	-	-
Complications of placenta, cord, membranes (P02).....		19	19	18	1	-
		*	*	*	*	-
Accidents (unintentional injures) (V01-X59).....		37	1	-	1	36
		77.5	*	-	*	75.4
Respiratory distress of newborn (P22).....		5	5	4	1	-
		*	*	*	*	-
Bacterial sepsis of newborn (P36).....		6	5	3	2	1
		*	*	*	*	*

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
American Indian¹						
Neonatal hemorrhage (P50-P52, P54).....		5 *	5 *	2 *	3 *	- -
Diseases of the circulatory system (I00-I99).....		7 *	1 *	- -	1 *	6 *
All other causes.....		126 264.0	51 106.9	32 67.1	18 *	75 157.2
Less than 2,500 grams						
All Causes	3,601	197 5,470.7	156 4,332.1	132 3,665.6	24 666.5	42 1,166.3
Congenital malformations (Q00-Q99).....		37 1,027.5	30 833.1	27 749.8	3 *	7 *
Short gestation and low birthweight nec (P07).....		47 1,305.2	46 1,277.4	43 1,194.1	3 *	1 *
Sudden infant death syndrome (R95).....		8 *	- -	- -	- -	8 *
Maternal complications of pregnancy (P01).....		12 *	12 *	12 *	- -	- -
Complications of placenta, cord, membranes (P02).....		17 *	17 *	17 *	- -	- -
Accidents (unintentional injures) (V01-X59).....		3 *	- -	- -	- -	3 *
Respiratory distress of newborn (P22).....		5 *	5 *	4 *	1 *	- -
Bacterial sepsis of newborn (P36).....		5 *	5 *	3 *	2 *	- -
Neonatal hemorrhage (P50-P52, P54).....		5 *	5 *	2 *	3 *	- -
Diseases of the circulatory system (I00-I99).....		2 *	- -	- -	- -	2 *
All other causes.....		55 1,527.4	34 944.2	22 610.9	12 *	20 555.4
2,500 grams or more						
All Causes	44,111	198 448.9	50 113.4	25 56.7	24 54.4	148 335.5
Congenital malformations (Q00-Q99).....		35 79.3	24 54.4	13 *	11 *	11 *
Short gestation and low birthweight nec (P07).....		- -	- -	- -	- -	- -
Sudden infant death syndrome (R95).....		49 111.1	4 *	- -	4 *	45 102.0
Maternal complications of pregnancy (P01).....		1 *	1 *	1 *	- -	- -
Complications of placenta, cord, membranes (P02).....		2 *	2 *	1 *	1 *	- -
Accidents (unintentional injures) (V01-X59).....		34 77.1	1 *	- -	1 *	33 74.8

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live	Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal
American Indian¹					
Respiratory distress of newborn (P22).....	-	-	-	-	-
Bacterial sepsis of newborn (P36).....	1	-	-	-	1
	*	-	-	-	*
Neonatal hemorrhage (P50-P52, P54).....	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	5	1	-	1	4
	*	*	-	*	*
All other causes.....	71	16	10	6	55
	161.0	*	*	*	124.7
Not stated birthweight					
All Causes	8	-	-	-	-
	-	-	-	-	-
Congenital malformations (Q00-Q99).....	-	-	-	-	-
	-	-	-	-	-
Short gestation and low birthweight nec (P07).....	-	-	-	-	-
	-	-	-	-	-
Sudden infant death syndrome (R95).....	-	-	-	-	-
	-	-	-	-	-
Maternal complications of pregnancy (P01).....	-	-	-	-	-
	-	-	-	-	-
Complications of placenta, cord, membranes (P02).....	-	-	-	-	-
	-	-	-	-	-
Accidents (unintentional injuries) (V01-X59).....	-	-	-	-	-
	-	-	-	-	-
Respiratory distress of newborn (P22).....	-	-	-	-	-
	-	-	-	-	-
Bacterial sepsis of newborn (P36).....	-	-	-	-	-
	-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	-	-	-	-	-
	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	-	-	-	-	-
	-	-	-	-	-
All other causes.....	-	-	-	-	-
	-	-	-	-	-
Asian or Pacific Islander					
All birthweights					
All Causes	241,048	1,097	766	616	331
		455.1	317.8	255.6	137.3
Congenital malformations (Q00-Q99).....		263	185	141	44
		109.1	76.7	58.5	18.3
Short gestation and low birthweight nec (P07).....		184	183	180	3
		76.3	75.9	74.7	*
Sudden infant death syndrome (R95).....		55	4	1	3
		22.8	*	*	*
					51
					21.2

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
Asian or Pacific Islander						
Maternal complications of pregnancy (P01).....		57 23.6	57 23.6	57 23.6	- -	- -
Complications of placenta, cord, membranes (P02).....		44 18.3	42 17.4	42 17.4	- -	2 *
Accidents (unintentional injures) (V01-X59).....		31 12.9	1 *	- -	1 *	30 12.4
Respiratory distress of newborn (P22).....		26 10.8	26 10.8	23 9.5	3 *	- -
Bacterial sepsis of newborn (P36).....		31 12.9	30 12.4	12 *	17 *	1 *
Neonatal hemorrhage (P50-P52, P54).....		23 9.5	23 9.5	18 *	5 *	- -
Diseases of the circulatory system (I00-I99).....		24 10.0	11 *	6 *	5 *	13 *
All other causes.....		359 148.9	205 85.0	136 56.4	69 28.6	154 63.9
Less than 2,500 grams						
All Causes	19,609	756 3,855.4	634 3,233.2	530 2,702.8	104 530.4	122 622.2
Congenital malformations (Q00-Q99).....		162 826.2	133 678.3	107 545.7	25 127.5	29 147.9
Short gestation and low birthweight nec (P07).....		179 912.8	178 907.7	175 892.4	3 *	1 *
Sudden infant death syndrome (R95).....		9 *	- -	- -	- -	9 *
Maternal complications of pregnancy (P01).....		52 265.2	52 265.2	52 265.2	- -	- -
Complications of placenta, cord, membranes (P02).....		39 198.9	38 193.8	38 193.8	- -	1 *
Accidents (unintentional injures) (V01-X59).....		3 *	- -	- -	- -	3 *
Respiratory distress of newborn (P22).....		25 127.5	25 127.5	22 112.2	3 *	- -
Bacterial sepsis of newborn (P36).....		27 137.7	26 132.6	10 *	16 *	1 *
Neonatal hemorrhage (P50-P52, P54).....		21 107.1	21 107.1	15 *	5 *	- -
Diseases of the circulatory system (I00-I99).....		10 *	5 *	3 *	2 *	5 *
All other causes.....		229 1,167.8	157 800.7	108 550.8	49 249.9	72 367.2
2,500 grams or more						
All Causes	221,373	333 150.4	124 56.0	77 34.8	47 21.2	209 94.4
Congenital malformations (Q00-Q99).....		100 45.2	52 23.5	32 14.5	19 *	48 21.7

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2006 period data -Cont

[Infant deaths are weighted. Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Rates are per 100,000 live births]

Cause of death, birthweight, and race of mother	Live	Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal
Asian or Pacific Islander					
Short gestation and low birthweight nec (P07).....	2	2	2	-	-
	*	*	*	-	-
Sudden infant death syndrome (R95).....	46	4	1	3	42
	20.8	*	*	*	19.0
Maternal complications of pregnancy (P01).....	1	1	1	-	-
	*	*	*	-	-
Complications of placenta, cord, membranes (P02).....	5	4	4	-	1
	*	*	*	-	*
Accidents (unintentional injures) (V01-X59).....	28	1	-	1	27
	12.6	*	-	*	12.2
Respiratory distress of newborn (P22).....	1	1	1	-	-
	*	*	*	-	-
Bacterial sepsis of newborn (P36).....	3	3	2	1	-
	*	*	*	*	-
Neonatal hemorrhage (P50-P52, P54).....	2	2	2	-	-
	*	*	*	-	-
Diseases of the circulatory system (I00-I99).....	14	6	3	3	8
	*	*	*	*	*
All other causes.....	130	48	28	19	82
	58.7	21.7	12.6	*	37.0
Not stated birthweight					
All Causes	66	8	8	8	-
		*	*	*	-
Congenital malformations (Q00-Q99).....	1	1	1	-	-
	*	*	*	-	-
Short gestation and low birthweight nec (P07).....	3	3	3	-	-
	*	*	*	-	-
Sudden infant death syndrome (R95).....	-	-	-	-	-
	-	-	-	-	-
Maternal complications of pregnancy (P01).....	4	4	4	-	-
	*	*	*	-	-
Complications of placenta, cord, membranes (P02).....	-	-	-	-	-
	-	-	-	-	-
Accidents (unintentional injures) (V01-X59).....	-	-	-	-	-
	-	-	-	-	-
Respiratory distress of newborn (P22).....	-	-	-	-	-
	-	-	-	-	-
Bacterial sepsis of newborn (P36).....	-	-	-	-	-
	-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	-	-	-	-	-
	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	-	-	-	-	-
	-	-	-	-	-
All other causes.....	-	-	-	-	-
	-	-	-	-	-

* / Figure does not meet standard of reliability or precision; based on fewer than 20 death in the numerator.

- / Quality zero.

¹ / Includes Aleuts and Eskimos.

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2006

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2006 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
United States /2					
Total	366	277	244	33	89
White	235	178	155	23	57
Black	116	88	78	10	28
Alabama					
Total	1	1	-	1	-
White	-	-	-	-	-
Black	1	1	-	1	-
Alaska					
Total	3	1	1	-	2
White	2	1	1	-	1
Black	-	-	-	-	-
Arizona					
Total	4	1	1	-	3
White	3	1	1	-	2
Black	1	-	-	-	1
Arkansas					
Total	1	1	1	-	-
White	1	1	1	-	-
Black	-	-	-	-	-
California					
Total	105	94	83	11	11
White	74	66	58	8	8
Black	22	20	17	3	2
Colorado					
Total	2	1	1	-	1
White	2	1	1	-	1
Black	-	-	-	-	-
Connecticut					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Delaware					
Total	1	-	-	-	1
White	-	-	-	-	-
Black	1	-	-	-	1
Dist of Columbia					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Florida					
Total	12	4	4	-	8
White	10	3	3	-	7
Black	2	1	1	-	1
Georgia					
Total	3	3	3	-	-
White	1	1	1	-	-
Black	2	2	2	-	-
Hawaii					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2006

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2006 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Idaho					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Illinois					
Total	13	8	6	2	5
White	5	2	1	1	3
Black	8	6	5	1	2
Indiana					
Total	6	4	4	-	2
White	5	3	3	-	2
Black	1	1	1	-	-
Iowa					
Total	1	1	1	-	-
White	1	1	1	-	-
Black	-	-	-	-	-
Kansas					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Kentucky					
Total	4	3	-	3	1
White	4	3	-	3	1
Black	-	-	-	-	-
Louisiana					
Total	43	25	21	4	18
White	15	9	6	3	6
Black	26	15	14	1	11
Maine					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Maryland					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Massachusetts					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Michigan					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Minnesota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Mississippi					
Total	2	-	-	-	2
White	1	-	-	-	1
Black	1	-	-	-	1

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2006

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2006 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Missouri					
Total	3	1	1	-	2
White	2	1	1	-	1
Black	1	-	-	-	1
Montana					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Nebraska					
Total	1	1	-	1	-
White	-	-	-	-	-
Black	1	1	-	1	-
Nevada					
Total	1	1	1	-	-
White	1	1	1	-	-
Black	-	-	-	-	-
New Hampshire					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
New Jersey					
Total	6	6	6	-	-
White	5	5	5	-	-
Black	1	1	1	-	-
New Mexico					
Total	3	3	2	1	-
White	3	3	2	1	-
Black	-	-	-	-	-
New York					
Total	11	9	8	1	2
White	10	8	7	1	2
Black	1	1	1	-	-
New York City					
Total	2	1	1	-	1
White	1	-	-	-	1
Black	1	1	1	-	-
North Carolina					
Total	2	2	2	-	-
White	2	2	2	-	-
Black	-	-	-	-	-
North Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Ohio					
Total	26	22	19	3	4
White	11	8	7	1	3
Black	15	14	12	2	1
Oklahoma					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2006

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2006 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Oregon					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
Pennsylvania					
Total	14	11	10	1	3
White	7	5	4	1	2
Black	7	6	6	-	1
Rhode Island					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
South Carolina					
Total	5	1	1	-	4
White	1	-	-	-	1
Black	4	1	1	-	3
South Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Tennessee					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Texas					
Total	87	72	67	5	15
White	65	53	49	4	12
Black	20	17	16	1	3
Utah					
Total	3	-	-	-	3
White	2	-	-	-	2
Black	-	-	-	-	-
Vermont					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Virginia					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Washington					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
West Virginia					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Wisconsin					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2006

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2006 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Wyoming					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Foreign Residents					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Puerto Rico					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
Virgin Islands					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Guam					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-

1/ Totals for geographic areas include races other than white and black.

2/ Excludes data for foreign residents, Puerto Rico, Virgin Islands and Guam.