

**Public Use
Data File
Documentation**

2005 Period Linked Birth/Infant Death Data Set

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics
Division of Vital Statistics

2005 Period Linked Birth/Infant Death Data Set

Contents

[Introduction, Methodology, and Classification of Data](#)

[File and data characteristics](#)

[List of data elements and locations](#)

[Record layout and definition of items and codes](#)

[Titles and codes for the 130 cause-of death list](#)

[Documentation tables 1-6](#)

External Links

[Infant Mortality Statistics from the 2005 Period Linked Birth/Infant Death Data Set](#)

[Technical Appendix for the 2005 Natality File](#) (in Birth User's Guide)

[Deaths: Final Data for 2005](#) (see Technical Notes)

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 2005 period linked file. Beginning with 1995 data, the period linked files have formed the basis for all official NCHS linked file statistics. Differences between period and birth cohort data are outlined below.

Period data - The numerator for the 2005 period linked file consists of all infant deaths occurring in 2005 linked to their corresponding birth certificates, whether the birth occurred in 2004 or 2005. The denominator file for this data set is the 2005 natality file, that is, all births occurring in 2005. 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. There are also some records from Vermont not reported in the natality file but included in the period linked file (see section on Update to 2005 Vermont Birth Data).

Birth cohort data - The numerator for the 2005 birth cohort linked file consists of deaths to infants born in 2005 whether the death occurred in 2005 or 2006. The denominator file is the 2005 natality file, that is, all births occurring in 2005.

The 2005 period linked birth/infant death data set includes several data files. The first file includes all US infant deaths which occurred in the 2005 data year linked to their corresponding birth certificates, whether the birth occurred in 2004 or in 2005 - 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 2005 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/vital_certs_rev.htm). Twelve states, Florida, Idaho, Kansas, Kentucky, Nebraska, New Hampshire, New York (excluding New York City), Pennsylvania, South Carolina, Tennessee, Texas, and Washington and Puerto Rico, implemented the 2003 revision on or before January 1, 2005. Vermont implemented the revised birth certificate in 2005, but after January 1. 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 seventeen states (California, Connecticut, Florida, Idaho, Kansas, Michigan, Montana, Nebraska, New Hampshire, New Jersey, New York, Oklahoma, South Carolina, South Dakota, Utah, Washington, and Wyoming), which implemented the 2003 revision of the U.S. Standard Certificate of Death as of January 1, 2005 or in 2004. The District of Columbia implemented the revised death certificate in 2005, but after January 1. 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. The 2003 revision is described in detail elsewhere. (See the 2003 Revision website at: http://www.cdc.gov/nchs/vital_certs_rev.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 2005 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 2005 linked file contains information on infants born in both 2004 and 2005 (see description of the period linked file above). As reporting areas changed between 2004 and 2005, 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 2004 and 2005. 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 2005 linked file are different from those for the 2005 birth file, as items had to be reported by a state in both 2004 and 2005 to be able to provide complete data. Thus, data for non-comparable items from states that revised in 2005 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 2005 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. For further information please contact us at births@cdc.gov or (301)458-4111.

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, and are shown separately. Accordingly, use of the reporting flag for this item will produce 2005 data for the month prenatal care began for the seven revised states which had implemented the revised certificate by January 1st 2004. Data for states which implemented the revised certificates in 2005 are excluded, as part of their linked file births (those born in 2004) 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 “Natality 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 2005 data, nineteen areas reported multiple race data for all or part of the year: California, Florida, Hawaii, Idaho, Kansas, Kentucky, Minnesota, Nebraska, New Hampshire, New York State (excluding New York City), Ohio, Pennsylvania, South Carolina, Tennessee, Texas, Utah, and Washington (full year); and Vermont (partial year) and Michigan for births at selected facilities only. For the 2005 period linked file, complete data for both 2004 and 2005 births is available from 7 states: Idaho, Kentucky, New York State (excluding New York City), Pennsylvania, South Carolina, Tennessee, 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 2005” and “Deaths: Final Data for 2005”.

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 3.74 to 0.45 in the numerator file, and from 0.09 to 0.01 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.

Update to 2005 Vermont Birth Data

State specific data for Vermont in the 2005 natality file are based on an incomplete file of Vermont birth records; the total number of Vermont resident births is under-reported by about 3 percent. The 2005 linked files, which was created after the natality files, includes the complete count of Vermont births.

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 2005 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 2005" 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 2005 linked file for the 50 States and D.C. includes 28,101 linked infant death records and 363 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 28,464. While the overall percent linked for infant deaths in the 2004 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 California (96.4), Illinois (98.3), Louisiana (94.0), Nevada (96.7), Ohio (97.4), Oregon (98.6) and Texas (96.1). 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, 2005 linked file

United States	98.7	Nebraska	100.0
Alabama	100.0	Nevada	96.7
Alaska	100.0	New Hampshire	100.0
Arizona	97.9	New Jersey	99.2
Arkansas	100.0	New Mexico	99.4
California	96.4	New York State	98.9
Colorado	99.8	New York City	99.7
Connecticut	100.0	North Carolina	99.8
Delaware	100.0	North Dakota	100.0
District of Columbia	100.0	Ohio	97.4
Florida	99.8	Oklahoma	99.5
Georgia	99.8	Oregon	98.6
Hawaii	100.0	Pennsylvania	99.5
Idaho	100.0	Rhode Island	100.0
Illinois	98.3	South Carolina	99.8
Indiana	99.7	South Dakota	100.0
Iowa	100.0	Tennessee	100.0
Kansas	100.0	Texas	96.1
Kentucky	99.4	Utah	100.0
Louisiana	94.0	Vermont	100.0
Maine	100.0	Virginia	100.0
Maryland	100.0	Washington	99.8
Massachusetts	99.8	West Virginia	100.0
Michigan	100.0	Wisconsin	100.0
Minnesota	99.7	Wyoming	100.0
Mississippi	100.0	Puerto Rico	99.8
Missouri	99.7	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 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.

Also see: http://www.cdc.gov/nchs/vital_certs_rev.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 increase in Necrotizing enterocolitis of newborn (ICD-10 code P77) among infants for 2005 is largely due to a coding rule change (specifically, ICD-10 code P60 can be due to ICD-10 codes P77-P78). The result of the rule change is that Necrotizing enterocolitis of newborn is selected as the underlying cause more often than was previously the case.

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.

2005 Period Linked Birth/Infant Death Data Set

Numerator Files:

United States

A. Record count:	28,101
B. Record length:	1,259
C. Data counts:	a. By occurrence: 28,101
	b. By residence: 28,021
	c. To foreign residents: 80

Territories

A. Record count:	513
B. Record length:	1,259

Denominator Files:

United States

A. Record count:	4,145,883
B. Record length:	868
C. Data counts:	a. By occurrence: 4,145,883
	b. By residence: 4,138,573
	c. To foreign residents: 7,310

Territories

A. Record count:	55,578
B. Record length:	868

Unlinked Files:

United States

A. Record count:	365
B. Record length:	1,259
C. Data counts:	a. By occurrence: 365
	b. By residence: 361
	c. To foreign residents: 4

Territories

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

Linked 2005 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	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	463-66	463-66	--	--
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	--	--
Total birth order	215-17	215-17	--	--
Live birth order	210-12	210-12	--	--
Born alive, now living	204-5	204-5	--	--
Born alive, now dead	206-7	206-7	--	--
Other terminations	208-9	208-9	--	--
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	2004	2004
						2005	2005
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).

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
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

* 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
						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).

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
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).

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
			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
141-142	2	MRACE	<p>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.</p> <p style="text-align: center;"><u>United States</u></p>		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

* 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
						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).

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
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

* 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
			** 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	570	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
196	1	FRACEHISP	Father's Race/Hispanic Origin	570	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

* 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
						9	Origin unknown or not stated
197-198	2	FILLER	Filler				
199-200	2	UFPLACE	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

* 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>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
201-203	3	FILLER	Filler				
204-205	2	PRIORLIVE	Prior Births Now Living		U,R	00-30 99	Number of children still living Unknown or not stated
206-207	2	PRIORDEAD	Prior Births Now Dead		U,R	00-30 99	Number of children dead Unknown or not stated
208-209	2	PRIORTERM	Prior Other Terminations		U,R	00-30 99	Number other terminations Unknown or not stated
210-211	2	LBO	Live Birth Order		U,R	01-31 99	Sum of all previous live births (now living and now dead) plus current birth Unknown or not stated
212	1	LBO_REC	Live Birth Order Recode		U,R	1-7 8 9	Number of live birth order. 8 or more live births Unknown or not stated
213-214	2	FILLER	Filler				
215-216	2	TBO	Total Birth Order		U,R	01-40 99	Sum of all previous pregnancies plus current birth Unknown or not stated
217	1	TBO_REC	Total Birth Order Recode		U,R	1-7 8	Number of total birth order. Total birth order of 8 or more

* 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
						9	Unknown or not stated
218-219	2	FILLER	Filler				
220-221	2	DLLB_MM	Date of Last Live Birth Month		R	01 02 03 04 05 06 07 08 09 10 11 12 88 99	January February March April May June July August September October November December Not applicable Unknown or not stated
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				

* 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
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 3 4 5 Blank	1 st trimester (1 st to 3 rd month) 2 nd trimester (4 th to 6 th month) 3 rd trimester (7 th to final month) No prenatal care Unknown or not stated Not on certificate
260-269	10	FILLER	Filler				
270-271	2	UPREVIS	Number of Prenatal Visits		U,R	00-49 99	Number of prenatal visits Unknown or not stated
272-273	2	PREVIS_REC	Number of Prenatal Visits Recode		U,R	01 02 03 04 05 06 07 08 09 10 11 12	No visits 1 to 2 visits 3 to 4 visits 5 to 6 visits 7 to 8 visits 9 to 10 visits 11 to 12 visits 13 to 14 visits 15 to 16 visits 17 to 18 visits 19 or more visits 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
274	1	FILLER	Filler				
275	1	APNCU	Adequacy of Prenatal Care Utilization Index (Revised)	668	R	1 2 3 4 9 Blank	Inadequate Intermediate Adequate Adequate + Unknown Not on certificate
276-277	2	WTGAIN	Weight Gain	648	U,R	00-97 98 99	Weight gain in pounds 98 pounds and over Unknown or not stated
278	1	WTGAIN_REC	Weight Gain Recode	648	U,R	1 2 3 4 5 6 7 8 9	Less than 16 pounds 16 to 20 pounds 21 to 25 pounds 26 to 30 pounds 31 to 35 pounds 36 to 40 pounds 41 to 45 pounds 46 or more pounds 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

* 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
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 99 Blank	Number of cigarettes daily 98 or more cigarettes daily 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	Number of drinks weekly

* 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
						98	98 or more drinks weekly
						99	Unknown or not stated
						Blank	Not on certificate
298	1	DRINKS_REC	Drinks Recode	649	U	0	Non drinker
						1	1 drink per week
						2	2 drinks per week
						3	3-4 drinks per week
						4	5 or more drinks per week
						5	Unknown or not stated
						Blank	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	Yes
						N	No
						U	Unknown or not stated
						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	Yes
						N	No
						U	Unknown or not stated
						Blank	Not on certificate
325-326	2	RF_CESARN	Number of Previous Cesarean Deliveries	594	R	00	None
						01-30	Number of previous cesareans
						99	Unknown or not stated
						Blank	Not on certificate
327	1	FILLER	Filler				

* 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
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 Yes 2 No 9 Unknown Blank 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			
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: The version is all 1989 Standard unless otherwise noted.					1 Yes 2 No 9 Unknown or not stated Blank Not on certificate

* 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
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 N U Blank	Yes No Unknown or not stated 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		
365-373	9	<u>Characteristics of Labor and Delivery (Revised)</u> The checkbox items below follow this structure:				Y N U Blank	Yes No Unknown or not stated 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	Steroids	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: The version is all 1989 Standard unless otherwise noted.				1 2 9 Blank	Yes No Unknown or not stated Not on certificate
374	1	ULD_FEBR	Febrile	711			
375	1	ULD_MECO	Meconium	712	U,R		
* 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
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 Comlications	724			
388	1	ULD_DISTR	Fetal Distress	725			
389	1	ULD_OTHER	Other Complications	726			

390-394 5 **Method of Delivery (Revised)**

390	1	ME_ATTf	Attempted Forceps	617	R	Y N U Blank	Yes No Unknown Not on certificate
391	1	ME_ATTv	Attempted Vacuum	618	R	Y N U Blank	Yes No Unknown Not on certificate
392	1	ME_PRES	Fetal Presentation	619	R	1 2 3 9 Blank	Cephalic Breech Other Unknown Not on certificate
393	1	ME_ROUT	Route & Method of Delivery	620	R	1 2 3 4 9 Blank	Spontaneous Forceps Vacuum Cesarean Unknown Not on certificate
394	1	ME_TRIAL	Trial of Labor Attempted	621	R	Y	Yes

* 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
						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		
401	1	RDMETH_REC	Delivery Method Recode (Revised)		R	1	Vaginal (excludes vaginal after previous C-section)
						2	Vaginal after previous c-section
						3	Primary C-section
						4	Repeat C-section
						5	Vaginal (unknown if previous c-section) (2003 Standard only)
						6	C-section (unknown if previous c-section) (2003 Standard only)
						9	Not stated
402	1	UDMETH_REC	Delivery Method Recode (Unrevised)		U	1	Vaginal (excludes vaginal after previous C-section)
						2	Vaginal after previous c-section
						3	Primary C-section
						4	Repeat C-section
						9	Not stated
403	1	DMETH_REC			U,R	1	Vaginal
						2	C-Section
						9	Unknown
404-409	6	FILLER	Filler				
410	1	ATTEND	Attendant		U,R	1	Doctor of Medicine (MD)
		* 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	Doctor of Osteopathy (DO)
						3	Certified Nurse Midwife (CNM)
						4	Other Midwife
						5	Other
						9	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 5	A score of 0-3 A score of 4-6 A score of 7-8 A score of 9-10 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	January February

* 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
						03	March
						04	April
						05	May
						06	June
						07	July
						08	August
						09	September
						10	October
						11	November
						12	December
						99	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
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	Clinical Estimate is not 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).				
		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	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 07 08 09 10 11 12 13 14	499 grams or less 500 – 749 grams 750 - 999 grams 1000 - 1249 grams 1250 – 1499 grams 1500 – 1999 grams 2000 – 2499 grams 2500 – 2999 grams 3000 – 3400 grams 3500 – 3999 grams 4000 – 4499 grams 4500 – 4999 grams 5000 – 8165 grams Not Stated
473	1	BWTR4	Birthweight Recode 4		U,R	1 2 3 4	1499 grams or less 1500 – 2499 grams 2500 grams or more Unknown or not stated
474	1	FILLER	Filler				
475	1	BWTIMP	Imputed Birth Weight Flag		U,R	Blank 1	Birth Weight is not imputed Birth Weight is imputed
476-482	7	<u>Abnormal Conditions of the Newborn (Revised)</u> The checkbox items below follow this structure:				Y N U Blank	Yes, Complication reported No Complication reported Unknown or not stated Not on certificate

* 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	
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			
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	Meningocele/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	

* 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
						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	<u>Congenital Anomalies of the Newborn (Unrevised)</u>					
		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		

* 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
524	1	UCA_CHROM	Other Chromosomal Anoms.	772			
525	1	UCA_OTHER	Other Congenital Anoms.	773			
526-568	43	FILLER	Filler				
569-773	205	<u>Flag File for Reporting Flags</u>					
		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				
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		

* 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
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		
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		
670-680	11	FILLER	Filler				
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_HERPES	Genital Herpes		U		

* 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
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		
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_OTHERLTD	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		

* 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
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				
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

* 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	
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					
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.

- * 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
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 2 3 4 5	Under 1 hour 1 – 23 hours 1 – 6 days 7 – 27 days (late neonatal) 28 days and over (postneonatal)
876-877	2	AGER22	Infant age recode 22			Blank 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22	Age 1 year and over or not stated Under 1 hour (includes not stated hours and minutes) 1 – 23 hours 1 day (includes not stated days) 2 days 3 days 4 days 5 days 6 days 7-13 days 14 – 20 days 21 – 27 days 1 month (includes not stated months) 2 months 3 months 4 months 5 months 6 months 7 months 8 months 9 months 10 months 11 months
878	1	MANNER	Manner of Death			1 2 3 4 5 6	Accident Suicide Homicide Pending investigation Could not determine Self-inflicted

* 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
						7 Blank	Natural Not specified
879	1	DISPO	Method of Disposition			B C O U	Burial Cremation Other Unknown
880	1	AUTOPSY	Autopsy			Y N U	Yes No Unknown
881	1	FILLER	Filler				
882	1	PLACE	Place of injury for causes W00-Y34, except Y06.- and Y07.-			0 1 2 3 4 5 6 7 8 9 Blank	Home Residential institution School, other institution and public administrative area Sports and athletics area Street and highway Trade and service area Industrial and construction area Farm Other Specified Places Unspecified place Cause other than W00-Y34, except Y06.- and Y07.-
883	1	FILLER	Filler				
884-887	4	UC0D	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				

* 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
901-902	2	FILLER	Filler				
903-904	2	EANUM	Number of Entity-Axis Conditions			00-20	Code range
905-1044	140	ENTITY	<p>Entity-Axis Conditions Space has been provided for a maximum of 20 conditions. Each condition takes 7 positions in the record. The 7th position will be blank. Records that do not have 20 conditions are blank in the unused area.</p> <p>Position 1: Part/line number on certificate 1 ... Part I, line 1 (a) 2 ... Part I, line 2 (b) 3 ... Part I, line 3 (c) 4 ... Part I, line 4 (d) 5 ... Part I, line 5 (e) 6 ... Part II</p> <p>Position 2: Sequence of condition within part/line 1-7 ... Code range</p> <p>Position 3 – 6: Condition code See Table 1 for a complete list of codes</p>				
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				
* 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
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				
1049-1053	5		1 st Condition				
1054-1058	5		2 nd Condition				
1059-1063	5		3 rd Condition				
1064-1068	5		4 th Condition				
1069-1073	5		5 th Condition				
1074-1078	5		6 th Condition				
1079-1083	5		7 th Condition				
1084-1088	5		8 th Condition				
1089-1093	5		9 th Condition				
1094-1098	5		10 th Condition				
1099-1103	5		11 th Condition				
1104-1108	5		12 th Condition				
1109-1113	5		13 th Condition				
1114-1118	5		14 th Condition				
1119-1123	5		15 th Condition				
1124-1128	5		16 th Condition				
1129-1133	5		17 th Condition				
1134-1138	5		18 th Condition				
1139-1143	5		19 th Condition				
1144-1148	5		20 th Condition				
1149-1150	2	FILLER	Filler				
1151	1	D_RESTATUS	Death Resident Status				

* 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
			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.
					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.

* 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
						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 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	Puerto Rico
						VI	Virgin Islands
						GU	Guam

* 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
			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 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				

* 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
			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 (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

* 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
						4	Wednesday
						5	Thursday
						6	Friday
						7	Saturday
						9	Unknown
1188-1191	4	DTHYR	Death Year			2005	2005
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
						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.

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, 2005 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	4145883	4138573	28101	28021	28466	28384
Alabama	59300	60453	568	575	569	576
Alaska	10366	10459	60	62	60	62
Arizona	96549	96199	644	646	657	659
Arkansas	38384	39208	283	306	284	307
California	550143	548882	2834	2836	2916	2918
Colorado	69210	68944	466	444	466	444
Connecticut	42145	41718	233	244	233	244
Delaware	12265	11643	105	105	105	105
Dist of Columbia	14312	7971	146	109	146	109
Florida	226759	226243	1645	1636	1648	1639
Georgia	143491	142200	1166	1147	1167	1148
Hawaii	17923	17924	120	116	122	118
Idaho	22526	23062	122	137	123	138
Illinois	175721	179020	1252	1303	1271	1322
Indiana	87864	87193	680	698	682	701
Iowa	39338	39311	198	214	198	214
Kansas	40743	39888	290	294	290	294
Kentucky	54593	56444	335	374	340	380
Louisiana	60485	60937	599	564	637	600
Maine	13989	14112	97	97	97	97
Maryland	71302	74980	532	547	532	547
Massachusetts	77839	76866	398	393	399	394
Michigan	126618	127706	1011	1007	1011	1007
Minnesota	70953	70919	376	361	376	361
Mississippi	41179	42395	453	481	458	486
Missouri	79531	78618	640	587	644	591
Montana	11556	11583	84	84	84	84
Nebraska	26350	26145	159	148	159	148
Nevada	36958	37268	208	206	213	211
New Hampshire	13968	14424	71	76	71	76
New Jersey	110837	113778	556	584	560	588
New Mexico	28346	28835	172	175	175	178
New York	125301	128858	745	770	754	779
New York City	122724	117507	689	654	689	654
North Carolina	123951	123096	1080	1081	1084	1085
North Dakota	9622	8390	58	50	58	50
Ohio	148912	148388	1220	1185	1250	1213
Oklahoma	50657	51801	403	410	405	412
Oregon	46715	45922	287	267	296	275
Pennsylvania	144965	145399	1084	1055	1089	1060
Rhode Island	13486	12697	100	82	100	82
South Carolina	55324	57711	507	546	507	546
South Dakota	11958	11462	81	79	82	80
Tennessee	87083	81748	802	715	804	717
Texas	392222	385920	2434	2422	2539	2526
Utah	52563	51556	246	231	248	233
Vermont	6138	6473	44	42	44	42
Virginia	102647	104555	759	778	762	781
Washington	82372	82703	411	416	414	419
West Virginia	21150	20836	172	170	172	170
Wisconsin	69771	70984	446	464	446	464
Wyoming	6779	7239	30	48	30	48
Foreign Residents	-	7310	-	80	-	80
Puerto Rico	50688	50564	470	466	470	466
Virgin Islands	1688	1605	9	12	9	12
Guam	3202	3180	34	34	34	34

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, 2005 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.....	4,138,573	7,274	11,754	12,526	14,352	17,123	66,584	210,539	3797879	542
Infant deaths.....	28,384	6,232	5,502	1,884	1,023	799	1,789	2,293	8,741	121
Infant mortality rate....	6.86	856.75	468.10	150.41	71.28	46.66	26.87	10.89	2.30	223.25
Male										
Live births.....	2,119,101	3,619	6,000	6,531	7,353	8,593	32,618	96,772	1957319	296
Infant deaths.....	16,015	3,142	3,192	1,222	620	441	970	1,224	5,124	80
Infant mortality rate....	7.56	868.20	532.00	187.11	84.32	51.32	29.74	12.65	2.62	270.27
Female										
Live births.....	2,019,472	3,655	5,754	5,995	6,999	8,530	33,966	113,767	1840560	246
Infant deaths.....	12,368	3,089	2,310	662	403	357	819	1,069	3,617	42
Infant mortality rate....	6.12	845.14	401.46	110.43	57.58	41.85	24.11	9.40	1.97	170.73
White										
Both sexes										
Live births.....	3,229,494	4,058	6,866	7,732	9,222	11,516	45,938	146,565	2997236	361
Infant deaths.....	18,500	3,491	3,285	1,235	686	529	1,224	1,617	6,372	63
Infant mortality rate....	5.73	860.28	478.44	159.73	74.39	45.94	26.64	11.03	2.13	174.52
Male										
Live births.....	1,655,917	2,019	3,490	4,058	4,847	5,834	22,771	67,826	1544877	195
Infant deaths.....	10,500	1,749	1,872	795	414	293	661	886	3,787	43
Infant mortality rate....	6.34	866.27	536.39	195.91	85.41	50.22	29.03	13.06	2.45	220.51
Female										
Live births.....	1,573,577	2,039	3,376	3,674	4,375	5,682	23,167	78,739	1452359	166
Infant deaths.....	8,001	1,741	1,413	440	272	236	563	731	2,585	19
Infant mortality rate....	5.08	853.85	418.54	119.76	62.17	41.53	24.30	9.28	1.78	*
Black										
Both sexes										
Live births.....	633,152	2,864	4,340	4,172	4,378	4,659	16,632	49,415	546,550	142
Infant deaths.....	8,393	2,444	1,945	563	275	221	456	558	1,878	53
Infant mortality rate....	13.26	853.35	448.16	134.95	62.81	47.44	27.42	11.29	3.44	373.24
Male										
Live births.....	321,270	1,432	2,217	2,129	2,111	2,286	7,802	22,086	281,127	80
Infant deaths.....	4,701	1,248	1,164	372	166	127	255	274	1,064	31
Infant mortality rate....	14.63	871.51	525.03	174.73	78.64	55.56	32.68	12.41	3.78	387.50
Female										
Live births.....	311,882	1,432	2,123	2,043	2,267	2,373	8,830	27,329	265,423	62
Infant deaths.....	3,692	1,196	780	192	109	94	202	284	814	21
Infant mortality rate....	11.84	835.20	367.40	93.98	48.08	39.61	22.88	10.39	3.07	338.71

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child United States, 2005 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.....	44,815	58	91	109	137	142	651	2,125	41,493	9
Infant deaths.....	361	46	41	11	18	10	20	29	184	0
Infant mortality rate....	8.06	793.10	450.55	*	*	*	30.72	13.65	4.43	*
Male										
Live births.....	22,674	30	47	60	75	64	307	979	21,109	3
Infant deaths.....	195	24	24	7	11	4	10	16	98	0
Infant mortality rate....	8.60	800.00	510.64	*	*	*	*	*	4.64	*
Female										
Live births.....	22,141	28	44	49	62	78	344	1,146	20,384	6
Infant deaths.....	166	22	17	4	7	6	10	13	86	0
Infant mortality rate....	7.50	785.71	*	*	*	*	*	*	4.22	*
Asian or Pacific Islander										
Both sexes										
Live births.....	231,112	294	457	513	615	806	3,363	12,434	212,600	30
Infant deaths.....	1,129	250	231	74	45	39	89	89	307	6
Infant mortality rate....	4.89	850.34	505.47	144.25	73.17	48.39	26.46	7.16	1.44	*
Male										
Live births.....	119,240	138	246	284	320	409	1,738	5,881	110,206	18
Infant deaths.....	620	121	131	48	29	17	44	49	175	5
Infant mortality rate....	5.20	876.81	532.52	169.01	90.63	*	25.32	8.33	1.59	*
Female										
Live births.....	111,872	156	211	229	295	397	1,625	6,553	102,394	12
Infant deaths.....	510	129	99	26	15	21	45	40	132	1
Infant mortality rate....	4.56	826.92	469.19	113.54	*	52.90	27.69	6.10	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, 2005 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	4,138,573	31,606	51,822	65,853	373,663	2,199,904	790,465	355,868	239,850	29,542
Infant deaths	28,384	12,923	2,364	1,099	2,727	5,796	1,563	757	637	516
Infant mortality rate	6.86	408.88	45.62	16.69	7.30	2.63	1.98	2.13	2.66	17.47
Less than 2,500 grams										
Live births	340,152	30,511	39,790	43,470	113,576	86,976	11,450	5,063	6,090	3,226
Infant deaths	19,521	12,899	2,247	910	1,547	1,184	211	99	120	304
Infant mortality rate	57.39	422.77	56.47	20.93	13.62	13.61	18.43	19.55	19.70	94.23
Less than 500 grams										
Live births	7,274	6,839	243	12	12	7	10	7	1	143
Infant deaths	6,232	5,917	166	8	9	3	10	7	1	109
Infant mortality rate	856.75	865.18	683.13	*	*	*	*	*	*	762.24
500-749 grams										
Live births	11,754	10,129	1,279	67	52	28	10	4	3	182
Infant deaths	5,502	5,014	346	24	19	10	4	1	2	81
Infant mortality rate	468.10	495.01	270.52	358.21	*	*	*	*	*	445.05
750-999 grams										
Live births	12,526	7,675	4,073	306	165	119	28	12	11	137
Infant deaths	1,884	1,409	379	28	20	14	4	1	-	28
Infant mortality rate	150.41	183.58	93.05	91.50	121.21	*	*	*	-	204.38
1,000-1,249 grams										
Live births	14,352	3,277	7,851	1,565	784	426	128	76	72	173
Infant deaths	1,023	363	439	90	72	29	9	5	5	11
Infant mortality rate	71.28	110.77	55.92	57.51	91.84	68.08	*	*	*	*
1,250-1,499 grams										
Live births	17,123	907	9,110	3,597	2,180	742	186	87	128	186
Infant deaths	799	83	364	141	125	56	5	5	5	15
Infant mortality rate	46.66	91.51	39.96	39.20	57.34	75.47	*	*	*	*
1,500-1,999 grams										
Live births	66,584	1,004	12,777	19,480	22,531	7,788	1,074	511	775	644
Infant deaths	1,789	89	423	375	475	310	36	24	30	26
Infant mortality rate	26.87	88.65	33.11	19.25	21.08	39.80	33.52	46.97	38.71	40.37
2,000-2,499 grams										
Live births	210,539	680	4,457	18,443	87,852	77,866	10,014	4,366	5,100	1,761
Infant deaths	2,293	24	130	243	826	761	142	56	77	34
Infant mortality rate	10.89	35.29	29.17	13.18	9.40	9.77	14.18	12.83	15.10	19.31
2,500-2,999 grams										
Live births	748,527	1,095	4,316	9,662	125,923	443,883	89,338	36,407	32,581	5,322
Infant deaths	3,136	24	52	107	687	1,617	320	159	143	28
Infant mortality rate	4.19	21.92	12.05	11.07	5.46	3.64	3.58	4.37	4.39	5.26
3,000-3,499 grams										
Live births	1,597,746	-	5,153	8,165	91,592	940,927	315,395	131,667	94,208	10,639
Infant deaths	3,437	-	45	57	342	1,920	591	252	204	27
Infant mortality rate	2.15	-	8.73	6.98	3.73	2.04	1.87	1.91	2.17	2.54

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, 2005 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	1,115,475	-	2,563	3,672	34,505	576,083	281,085	131,336	78,848	7,383
Infant deaths	1,635	-	20	19	101	835	328	179	134	19
Infant mortality rate	1.47	-	7.80	*	2.93	1.45	1.17	1.36	1.70	*
4,000-4,499 grams										
Live births	289,269	-	-	773	6,805	131,702	80,487	43,655	23,773	2,074
Infant deaths	418	-	-	2	28	200	93	52	33	9
Infant mortality rate	1.45	-	-	*	4.11	1.52	1.16	1.19	1.39	*
4,500-4,999 grams										
Live births	42,143	-	-	90	1,089	18,097	11,631	7,059	3,867	310
Infant deaths	93	-	-	1	17	35	17	13	3	6
Infant mortality rate	2.21	-	-	*	*	1.93	*	*	*	*
5,000 grams or more										
Live births	4,719	-	-	21	173	2,236	1,079	681	483	46
Infant deaths	21	-	-	3	4	5	3	3	1	2
Infant mortality rate	4.45	-	-	*	*	*	*	*	*	*
Not stated										
Live births	542	-	-	-	-	-	-	-	-	542
Infant deaths	121	-	-	-	-	-	-	-	-	121
Infant mortality rate	223.25	-	-	-	-	-	-	-	-	223.25
White										
Total										
Live births	3,229,494	18,549	35,083	46,827	277,783	1,723,239	628,396	285,363	190,725	23,529
Infant deaths	18,500	7,569	1,569	762	1,926	4,198	1,159	529	459	329
Infant mortality rate	5.73	408.05	44.72	16.27	6.93	2.44	1.84	1.85	2.41	13.98
Less than 2,500 grams										
Live births	231,897	17,865	26,716	30,967	80,043	58,663	7,659	3,462	4,210	2,312
Infant deaths	12,066	7,554	1,476	631	1,069	829	158	66	84	199
Infant mortality rate	52.03	422.84	55.25	20.38	13.36	14.13	20.63	19.06	19.95	86.07
Less than 500 grams										
Live births	4,058	3,785	145	5	11	5	6	1	1	99
Infant deaths	3,491	3,296	97	3	9	2	6	1	1	74
Infant mortality rate	860.28	870.81	668.97	*	*	*	*	*	*	747.47
500-749 grams										
Live births	6,866	5,843	801	45	37	15	6	-	1	118
Infant deaths	3,285	2,982	208	16	15	5	2	-	1	55
Infant mortality rate	478.44	510.35	259.68	*	*	*	*	-	*	466.10
750-999 grams										
Live births	7,732	4,678	2,519	204	104	92	22	9	8	96
Infant deaths	1,235	915	247	21	17	12	3	1	-	18
Infant mortality rate	159.73	195.60	98.05	102.94	*	*	*	*	-	*
1,000-1,249 grams										
Live births	9,222	2,001	5,072	1,048	523	280	82	53	37	126
Infant deaths	686	236	294	66	54	19	5	2	1	8
Infant mortality rate	74.39	117.94	57.97	62.98	103.25	*	*	*	*	*

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, 2005 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	11,516	541	6,173	2,424	1,461	497	132	66	86	136
Infant deaths	529	51	241	95	89	37	3	4	4	5
Infant mortality rate	45.94	94.27	39.04	39.19	60.92	74.45	*	*	*	*
1,500-1,999 grams										
Live births	45,938	615	9,011	13,671	15,318	5,268	713	357	535	450
Infant deaths	1,224	62	292	251	325	216	27	13	18	20
Infant mortality rate	26.64	100.81	32.40	18.36	21.22	41.00	37.87	*	*	44.44
2,000-2,499 grams										
Live births	146,565	402	2,995	13,570	62,589	52,506	6,698	2,976	3,542	1,287
Infant deaths	1,617	12	95	178	560	537	111	44	59	19
Infant mortality rate	11.03	*	31.72	13.12	8.95	10.23	16.57	14.78	16.66	*
2,500-2,999 grams										
Live births	533,839	684	2,784	6,594	93,377	315,198	62,204	25,777	23,229	3,992
Infant deaths	2,182	15	41	72	493	1,112	229	107	97	16
Infant mortality rate	4.09	*	14.73	10.92	5.28	3.53	3.68	4.15	4.18	*
3,000-3,499 grams										
Live births	1,241,931	-	3,632	5,776	70,339	735,145	243,363	101,995	73,198	8,483
Infant deaths	2,505	-	38	42	240	1,419	421	172	150	21
Infant mortality rate	2.02	-	10.46	7.27	3.41	1.93	1.73	1.69	2.05	2.48
3,500-3,999 grams										
Live births	930,616	-	1,951	2,794	27,489	482,690	234,283	109,412	65,750	6,247
Infant deaths	1,266	-	14	14	82	654	257	131	98	15
Infant mortality rate	1.36	-	*	*	2.98	1.35	1.10	1.20	1.49	*
4,000-4,499 grams										
Live births	250,377	-	-	611	5,521	114,103	69,846	37,919	20,559	1,818
Infant deaths	331	-	-	1	25	153	78	39	26	8
Infant mortality rate	1.32	-	-	*	4.53	1.34	1.12	1.03	1.26	*
4,500-4,999 grams										
Live births	36,489	-	-	70	879	15,580	10,120	6,206	3,359	275
Infant deaths	70	-	-	1	13	26	13	10	2	4
Infant mortality rate	1.92	-	-	*	*	1.67	*	*	*	*
5,000 grams or more										
Live births	3,984	-	-	15	135	1,860	921	592	420	41
Infant deaths	18	-	-	1	3	5	3	3	1	2
Infant mortality rate	*	-	-	*	*	*	*	*	*	*
Not stated										
Live births	361	-	-	-	-	-	-	-	-	361
Infant deaths	63	-	-	-	-	-	-	-	-	63
Infant mortality rate	174.52	-	-	-	-	-	-	-	-	174.52
Black										
Total										
Live births	633,152	11,531	13,910	15,218	73,182	326,451	108,304	47,349	34,128	3,079
Infant deaths	8,393	4,726	682	275	652	1,265	327	171	145	148
Infant mortality rate	13.26	409.85	49.03	18.07	8.91	3.88	3.02	3.61	4.25	48.07

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, 2005 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	86,460	11,185	10,998	10,082	26,278	21,578	2,965	1,259	1,514	601
Infant deaths	6,463	4,718	665	226	387	288	47	25	28	76
Infant mortality rate	74.75	421.81	60.47	22.42	14.73	13.35	15.85	19.86	18.49	126.46
Less than 500 grams										
Live births	2,864	2,724	89	7	1	2	4	5	-	32
Infant deaths	2,444	2,339	64	5	-	1	4	5	-	26
Infant mortality rate	853.35	858.66	719.10	*	-	*	*	*	-	812.50
500-749 grams										
Live births	4,340	3,820	409	21	14	12	4	4	2	54
Infant deaths	1,945	1,781	124	8	4	3	2	1	1	20
Infant mortality rate	448.16	466.23	303.18	*	*	*	*	*	*	370.37
750-999 grams										
Live births	4,172	2,635	1,337	84	52	21	6	3	3	31
Infant deaths	563	423	121	6	3	2	1	-	-	7
Infant mortality rate	134.95	160.53	90.50	*	*	*	*	-	-	*
1,000-1,249 grams										
Live births	4,378	1,102	2,386	429	224	122	40	16	27	32
Infant deaths	275	109	115	20	15	7	4	1	1	2
Infant mortality rate	62.81	98.91	48.20	46.62	*	*	*	*	*	*
1,250-1,499 grams										
Live births	4,659	313	2,479	961	583	200	43	14	33	33
Infant deaths	221	30	103	33	29	16	1	1	-	7
Infant mortality rate	47.44	95.85	41.55	34.34	49.74	*	*	*	-	*
1,500-1,999 grams										
Live births	16,632	352	3,083	4,675	5,762	2,006	301	125	198	130
Infant deaths	456	24	107	104	117	76	7	8	10	3
Infant mortality rate	27.42	68.18	34.71	22.25	20.31	37.89	*	*	*	*
2,000-2,499 grams										
Live births	49,415	239	1,215	3,905	19,642	19,215	2,567	1,092	1,251	289
Infant deaths	558	11	30	50	219	183	28	9	16	11
Infant mortality rate	11.29	*	24.69	12.80	11.15	9.52	10.91	*	*	*
2,500-2,999 grams										
Live births	154,649	346	1,254	2,462	24,631	91,436	19,165	7,613	7,034	708
Infant deaths	772	8	9	30	169	397	70	43	37	8
Infant mortality rate	4.99	*	*	12.19	6.86	4.34	3.65	5.65	5.26	*
3,000-3,499 grams										
Live births	241,637	-	1,193	1,888	15,980	138,868	48,049	20,025	14,639	995
Infant deaths	741	-	4	13	75	398	137	61	46	5
Infant mortality rate	3.07	-	*	*	4.69	2.87	2.85	3.05	3.14	*
3,500-3,999 grams										
Live births	121,098	-	465	655	5,201	61,140	30,243	14,289	8,597	508
Infant deaths	287	-	4	3	15	146	55	33	26	4
Infant mortality rate	2.37	-	*	*	*	2.39	1.82	2.31	3.02	*

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, 2005 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	25,089	-	-	115	923	11,515	6,845	3,584	2,003	104
Infant deaths	62	-	-	1	2	33	13	5	7	-
Infant mortality rate	2.47	-	-	*	*	2.87	*	*	*	-
4,500-4,999 grams										
Live births	3,623	-	-	14	147	1,669	943	527	304	19
Infant deaths	16	-	-	-	4	3	4	3	-	2
Infant mortality rate	*	-	-	-	*	*	*	*	-	*
5,000 grams or more										
Live births	454	-	-	2	22	245	94	52	37	2
Infant deaths	1	-	-	1	-	-	-	-	-	-
Infant mortality rate	*	-	-	*	-	-	-	-	-	-
Not stated										
Live births	142	-	-	-	-	-	-	-	-	142
Infant deaths	53	-	-	-	-	-	-	-	-	53
Infant mortality rate	373.24	-	-	-	-	-	-	-	-	373.24
American Indian ¹										
Total										
Live births	44,815	305	617	822	4,519	22,489	8,340	4,104	3,307	312
Infant deaths	361	103	26	11	48	105	34	19	13	1
Infant mortality rate	8.06	337.70	42.14	*	10.62	4.67	4.08	*	*	*
Less than 2,500 grams										
Live births	3,313	281	394	435	1,088	868	105	48	65	29
Infant deaths	177	103	23	9	20	17	1	1	1	1
Infant mortality rate	53.43	366.55	58.38	*	18.38	*	*	*	*	*
Less than 500 grams										
Live births	58	56	1	-	-	-	-	-	-	1
Infant deaths	46	45	1	-	-	-	-	-	-	-
Infant mortality rate	793.10	803.57	*	-	-	-	-	-	-	-
500-749 grams										
Live births	91	75	15	-	-	-	-	-	-	1
Infant deaths	41	39	2	-	-	-	-	-	-	-
Infant mortality rate	450.55	520.00	*	-	-	-	-	-	-	-
750-999 grams										
Live births	109	67	31	5	3	2	-	-	-	1
Infant deaths	11	10	1	-	-	-	-	-	-	-
Infant mortality rate	*	*	*	-	-	-	-	-	-	-
1,000-1,249 grams										
Live births	137	44	64	14	6	3	-	1	-	5
Infant deaths	18	7	10	-	-	1	-	-	-	-
Infant mortality rate	*	*	*	-	-	*	-	-	-	-
1,250-1,499 grams										
Live births	142	11	67	21	29	7	-	1	2	4
Infant deaths	10	-	4	1	3	1	-	-	-	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, 2005 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	651	13	146	188	191	85	7	10	9	2
Infant deaths	20	-	5	6	5	3	-	1	-	-
Infant mortality rate	30.72	-	*	*	*	*	-	*	-	-
2,000-2,499 grams										
Live births	2,125	15	70	207	859	771	98	36	54	15
Infant deaths	29	1	-	2	12	12	1	-	1	-
Infant mortality rate	13.65	*	-	*	*	*	*	-	*	-
2,500-2,999 grams										
Live births	7,388	24	71	134	1,466	4,032	843	388	372	58
Infant deaths	53	-	1	-	8	29	8	3	3	-
Infant mortality rate	7.17	-	*	-	*	7.19	*	*	*	-
3,000-3,499 grams										
Live births	16,661	-	102	168	1,244	9,227	3,129	1,444	1,232	115
Infant deaths	69	-	1	1	15	29	14	3	5	-
Infant mortality rate	4.14	-	*	*	*	3.14	*	*	*	-
3,500-3,999 grams										
Live births	12,781	-	50	64	555	6,315	3,049	1,518	1,155	75
Infant deaths	41	-	1	-	2	18	9	6	4	-
Infant mortality rate	3.21	-	*	-	*	*	*	*	*	-
4,000-4,499 grams										
Live births	3,834	-	-	16	129	1,689	997	581	398	24
Infant deaths	15	-	-	-	1	6	2	6	-	-
Infant mortality rate	*	-	-	-	*	*	*	*	-	-
4,500-4,999 grams										
Live births	721	-	-	2	32	309	192	110	74	2
Infant deaths	5	-	-	-	-	5	-	-	-	-
Infant mortality rate	*	-	-	-	-	*	-	-	-	-
5,000 grams or more										
Live births	108	-	-	3	5	49	25	15	11	-
Infant deaths	2	-	-	1	1	-	-	-	-	-
Infant mortality rate	*	-	-	*	*	-	-	-	-	-
Not stated										
Live births	9	-	-	-	-	-	-	-	-	9
Infant deaths	-	-	-	-	-	-	-	-	-	-
Infant mortality rate	-	-	-	-	-	-	-	-	-	-
Asian or Pacific Islander										
Total										
Live births	231,112	1,221	2,212	2,986	18,179	127,725	45,425	19,052	11,690	2,622
Infant deaths	1,129	524	86	51	102	227	43	38	20	38
Infant mortality rate	4.89	429.16	38.88	17.08	5.61	1.78	0.95	1.99	1.71	14.49
Less than 2,500 grams										
Live births	18,482	1,180	1,682	1,986	6,167	5,867	721	294	301	284
Infant deaths	816	523	83	44	71	50	4	7	7	27
Infant mortality rate	44.15	443.22	49.35	22.16	11.51	8.52	*	*	*	95.07

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, 2005 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	294	274	8	-	-	-	-	1	-	11
Infant deaths	250	236	4	-	-	-	-	1	-	9
Infant mortality rate	850.34	861.31	*	-	-	-	-	*	-	*
500-749 grams										
Live births	457	391	54	1	1	1	-	-	-	9
Infant deaths	231	211	11	-	-	2	-	-	-	6
Infant mortality rate	505.47	539.64	*	-	-	*	-	-	-	*
750-999 grams										
Live births	513	295	186	13	6	4	-	-	-	9
Infant deaths	74	61	10	1	-	-	-	-	-	2
Infant mortality rate	144.25	206.78	*	*	-	-	-	-	-	*
1,000-1,249 grams										
Live births	615	130	329	74	31	21	6	6	8	10
Infant deaths	45	10	19	4	3	2	-	2	3	1
Infant mortality rate	73.17	*	*	*	*	*	-	*	*	*
1,250-1,499 grams										
Live births	806	42	391	191	107	38	11	6	7	13
Infant deaths	39	2	15	11	4	2	1	-	1	2
Infant mortality rate	48.39	*	*	*	*	*	*	-	*	*
1,500-1,999 grams										
Live births	3,363	24	537	946	1,260	429	53	19	33	62
Infant deaths	89	3	19	14	28	15	1	2	2	3
Infant mortality rate	26.46	*	*	*	22.22	*	*	*	*	*
2,000-2,499 grams										
Live births	12,434	24	177	761	4,762	5,374	651	262	253	170
Infant deaths	89	-	4	13	35	28	2	2	1	3
Infant mortality rate	7.16	-	*	*	7.35	5.21	*	*	*	*
2,500-2,999 grams										
Live births	52,651	41	207	472	6,449	33,217	7,126	2,629	1,946	564
Infant deaths	130	1	1	5	17	79	13	5	5	3
Infant mortality rate	2.47	*	*	*	*	2.38	*	*	*	*
3,000-3,499 grams										
Live births	97,517	-	226	333	4,029	57,687	20,854	8,203	5,139	1,046
Infant deaths	123	-	1	-	12	73	18	15	2	1
Infant mortality rate	1.26	-	*	-	*	1.27	*	*	*	*
3,500-3,999 grams										
Live births	50,980	-	97	159	1,260	25,938	13,510	6,117	3,346	553
Infant deaths	43	-	1	2	2	17	7	8	5	-
Infant mortality rate	0.84	-	*	*	*	*	*	*	*	-
4,000-4,499 grams										
Live births	9,969	-	-	31	232	4,395	2,799	1,571	813	128
Infant deaths	10	-	-	-	-	7	-	2	-	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, 2005 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	1,310	-	-	4	31	539	376	216	130	14
Infant deaths	2	-	-	-	-	1	-	-	1	-
Infant mortality rate	*	-	-	-	-	*	-	-	*	-
5,000 grams or more										
Live births	173	-	-	1	11	82	39	22	15	3
Infant deaths	-	-	-	-	-	-	-	-	-	-
Infant mortality rate	-	-	-	-	-	-	-	-	-	-
Not stated										
Live births	30	-	-	-	-	-	-	-	-	30
Infant deaths	6	-	-	-	-	-	-	-	-	6
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 Births	Infant	Total Neonatal	Early Neonatal	Late Neonatal	Post-Neonatal
All races						
Total (all birthweights).....	4,138,573	28,384	18,782	15,013	3,769	9,602
Rate.....		6.86	4.54	3.63	0.91	2.32
Less than 2,500 grams.....	340,152	19,521	15,701	13,202	2,499	3,820
Rate.....		57.39	46.16	38.81	7.35	11.23
Less than 500 grams.....	7,274	6,232	6,097	5,915	183	134
Rate.....		856.75	838.19	813.17	25.16	18.42
500-749 grams.....	11,754	5,502	4,648	3,817	830	854
Rate.....		468.10	395.44	324.74	70.61	72.66
750-999 grams.....	12,526	1,884	1,373	904	469	510
Rate.....		150.41	109.61	72.17	37.44	40.72
1,000-1,249 grams.....	14,352	1,023	738	499	239	285
Rate.....		71.28	51.42	34.77	16.65	19.86
1,250-1,499 grams.....	17,123	799	548	395	153	251
Rate.....		46.66	32.00	23.07	8.94	14.66
1,500-1,999 grams.....	66,584	1,789	1,134	880	254	655
Rate.....		26.87	17.03	13.22	3.81	9.84
2,000-2,499 grams.....	210,539	2,293	1,163	792	371	1,130
Rate.....		10.89	5.52	3.76	1.76	5.37
2,500-2,999 grams.....	748,527	3,136	1,224	754	470	1,912
Rate.....		4.19	1.64	1.01	0.63	2.55
3,000-3,499 grams.....	1,597,746	3,437	1,049	551	498	2,388
Rate.....		2.15	0.66	0.34	0.31	1.49
3,500-3,999 grams.....	1,115,475	1,635	500	268	232	1,135
Rate.....		1.47	0.45	0.24	0.21	1.02
4,000-4,499 grams.....	289,269	418	134	76	57	284
Rate.....		1.45	0.46	0.26	0.20	0.98
4,500-4,999 grams.....	42,143	93	43	33	9	50
Rate.....		2.21	1.02	0.78	*	1.19
5,000 grams or more.....	4,719	21	13	11	2	8
Rate.....		4.45	*	*	*	*
Not stated.....	542	121	117	116	1	4
Rate.....		223.25	215.87	214.02	*	*

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 Births	Infant	Total Neonatal	Early Neonatal	Late Neonatal	Post-Neonatal
White						
Total (all birthweights).....	3,229,494	18,500	12,173	9,660	2,512	6,328
Rate.....		5.73	3.77	2.99	0.78	1.96
Less than 2,500 grams.....	231,897	12,066	9,829	8,278	1,550	2,237
Rate.....		52.03	42.39	35.70	6.68	9.65
Less than 500 grams.....	4,058	3,491	3,431	3,335	96	60
Rate.....		860.28	845.49	821.83	23.66	14.79
500-749 grams.....	6,866	3,285	2,852	2,380	472	433
Rate.....		478.44	415.38	346.64	68.74	63.06
750-999 grams.....	7,732	1,235	953	646	307	282
Rate.....		159.73	123.25	83.55	39.71	36.47
1,000-1,249 grams.....	9,222	686	504	363	141	181
Rate.....		74.39	54.65	39.36	15.29	19.63
1,250-1,499 grams.....	11,516	529	385	276	109	144
Rate.....		45.94	33.43	23.97	9.47	12.50
1,500-1,999 grams.....	45,938	1,224	823	662	161	401
Rate.....		26.64	17.92	14.41	3.50	8.73
2,000-2,499 grams.....	146,565	1,617	880	616	265	736
Rate.....		11.03	6.00	4.20	1.81	5.02
2,500-2,999 grams.....	533,839	2,182	913	570	342	1,269
Rate.....		4.09	1.71	1.07	0.64	2.38
3,000-3,499 grams.....	1,241,931	2,505	817	441	375	1,688
Rate.....		2.02	0.66	0.36	0.30	1.36
3,500-3,999 grams.....	930,616	1,266	405	215	190	861
Rate.....		1.36	0.44	0.23	0.20	0.93
4,000-4,499 grams.....	250,377	331	104	58	46	227
Rate.....		1.32	0.42	0.23	0.18	0.91
4,500-4,999 grams.....	36,489	70	33	26	7	36
Rate.....		1.92	0.90	0.71	*	0.99
5,000 grams or more.....	3,984	18	11	10	1	7
Rate.....		*	*	*	*	*
Not stated.....	361	63	61	61	-	2
Rate.....		174.52	168.98	168.98	-	*

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 Births	Infant	Total Neonatal	Early Neonatal	Late Neonatal	Post-Neonatal
Black						
Total (all birthweights).....	633,152	8,393	5,649	4,603	1,047	2,743
Rate.....		13.26	8.92	7.27	1.65	4.33
Less than 2,500 grams.....	86,460	6,463	5,070	4,266	803	1,393
Rate.....		74.75	58.64	49.34	9.29	16.11
Less than 500 grams.....	2,864	2,444	2,376	2,296	80	69
Rate.....		853.35	829.61	801.68	27.93	24.09
500-749 grams.....	4,340	1,945	1,567	1,254	313	378
Rate.....		448.16	361.06	288.94	72.12	87.10
750-999 grams.....	4,172	563	357	218	138	207
Rate.....		134.95	85.57	52.25	33.08	49.62
1,000-1,249 grams.....	4,378	275	184	107	77	91
Rate.....		62.81	42.03	24.44	17.59	20.79
1,250-1,499 grams.....	4,659	221	129	97	32	92
Rate.....		47.44	27.69	20.82	6.87	19.75
1,500-1,999 grams.....	16,632	456	238	160	79	218
Rate.....		27.42	14.31	9.62	4.75	13.11
2,000-2,499 grams.....	49,415	558	219	134	85	339
Rate.....		11.29	4.43	2.71	1.72	6.86
2,500-2,999 grams.....	154,649	772	248	143	105	524
Rate.....		4.99	1.60	0.92	0.68	3.39
3,000-3,499 grams.....	241,637	741	175	81	94	566
Rate.....		3.07	0.72	0.34	0.39	2.34
3,500-3,999 grams.....	121,098	287	75	40	34	212
Rate.....		2.37	0.62	0.33	0.28	1.75
4,000-4,499 grams.....	25,089	62	23	15	8	38
Rate.....		2.47	0.92	*	*	1.51
4,500-4,999 grams.....	3,623	16	8	6	2	8
Rate.....		*	*	*	*	*
5,000 grams or more.....	454	1	-	-	-	1
Rate.....		*	-	-	-	*
Not stated.....	142	53	52	51	1	1
Rate.....		373.24	366.20	359.15	*	*

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 Births	Infant	Total Neonatal	Early Neonatal	Late Neonatal	Post-Neonatal
American Indian ¹						
Total (all birthweights).....	44,815	361	181	132	49	180
Rate.....		8.06	4.04	2.95	1.09	4.02
Less than 2,500 grams.....	3,313	177	135	107	28	41
Rate.....		53.43	40.75	32.30	8.45	12.38
Less than 500 grams.....	58	46	46	46	-	-
Rate.....		793.10	793.10	793.10	-	-
500-749 grams.....	91	41	35	30	5	6
Rate.....		450.55	384.62	329.67	*	*
750-999 grams.....	109	11	6	4	2	5
Rate.....		*	*	*	*	*
1,000-1,249 grams.....	137	18	14	7	7	4
Rate.....		*	*	*	*	*
1,250-1,499 grams.....	142	10	5	3	2	5
Rate.....		*	*	*	*	*
1,500-1,999 grams.....	651	20	15	10	5	5
Rate.....		30.72	*	*	*	*
2,000-2,499 grams.....	2,125	29	13	6	7	16
Rate.....		13.65	*	*	*	*
2,500-2,999 grams.....	7,388	53	14	9	5	38
Rate.....		7.17	*	*	*	5.14
3,000-3,499 grams.....	16,661	69	16	8	8	53
Rate.....		4.14	*	*	*	3.18
3,500-3,999 grams.....	12,781	41	9	5	4	31
Rate.....		3.21	*	*	*	2.43
4,000-4,499 grams.....	3,834	15	4	2	2	11
Rate.....		*	*	*	*	*
4,500-4,999 grams.....	721	5	-	-	-	5
Rate.....		*	-	-	-	*
5,000 grams or more.....	108	2	2	1	1	-
Rate.....		*	*	*	*	-
Not stated.....	9	-	-	-	-	-
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 Births	Infant	Total Neonatal	Early Neonatal	Late Neonatal	Post-Neonatal
Asian or Pacific Islander						
Total (all birthweights).....	231,112	1,129	779	618	161	350
Rate.....		4.89	3.37	2.67	0.70	1.51
Less than 2,500 grams.....	18,482	816	668	551	117	148
Rate.....		44.15	36.14	29.81	6.33	8.01
Less than 500 grams.....	294	250	244	237	7	6
Rate.....		850.34	829.93	806.12	*	*
500-749 grams.....	457	231	193	153	40	37
Rate.....		505.47	422.32	334.79	87.53	80.96
750-999 grams.....	513	74	58	36	22	16
Rate.....		144.25	113.06	70.18	42.88	*
1,000-1,249 grams.....	615	45	36	21	14	9
Rate.....		73.17	58.54	34.15	*	*
1,250-1,499 grams.....	806	39	29	18	10	10
Rate.....		48.39	35.98	*	*	*
1,500-1,999 grams.....	3,363	89	57	48	9	31
Rate.....		26.46	16.95	14.27	*	9.22
2,000-2,499 grams.....	12,434	89	51	37	14	38
Rate.....		7.16	4.10	2.98	*	3.06
2,500-2,999 grams.....	52,651	130	50	32	18	80
Rate.....		2.47	0.95	0.61	*	1.52
3,000-3,499 grams.....	97,517	123	42	20	21	81
Rate.....		1.26	0.43	0.21	0.22	0.83
3,500-3,999 grams.....	50,980	43	12	8	4	30
Rate.....		0.84	*	*	*	0.59
4,000-4,499 grams.....	9,969	10	2	1	1	8
Rate.....		*	*	*	*	*
4,500-4,999 grams.....	1,310	2	1	1	-	1
Rate.....		*	*	*	-	*
5,000 grams or more.....	173	-	-	-	-	-
Rate.....		-	-	-	-	-
Not stated.....	30	6	5	5	-	1
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, 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 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	4,138,573	28,384 685.8	18,782 453.8	15,013 362.8	3,769 91.1	9,602 232.0
Congenital malformations (Q00-Q99).....		5,571 134.6	3,916 94.6	3,001 72.5	915 22.1	1,654 40.0
Short gestation and low birthweight nec (P07).....		4,698 113.5	4,583 110.7	4,478 108.2	105 2.5	115 2.8
Sudden infant death syndrome (R95).....		2,234 54.0	200 4.8	38 0.9	161 3.9	2,034 49.1
Maternal complications of pregnancy (P01).....		1,769 42.7	1,748 42.2	1,719 41.5	29 0.7	20 0.5
Complications of placenta, cord, membranes (P02).....		1,095 26.5	1,075 26.0	1,041 25.2	33 0.8	20 0.5
Accidents (unintentional injures) (V01-X59).....		1,083 26.2	122 2.9	26 0.6	96 2.3	961 23.2
Respiratory distress of newborn (P22).....		861 20.8	834 20.2	695 16.8	139 3.4	27 0.7
Bacterial sepsis of newborn (P36).....		839 20.3	799 19.3	327 7.9	471 11.4	41 1.0
Neonatal hemorrhage (P50-P52, P54).....		668 16.1	655 15.8	452 10.9	203 4.9	13 *
Diseases of the circulatory system (I00-I99).....		520 12.6	118 2.9	55 1.3	62 1.5	402 9.7
All other causes.....		9,046 218.6	4,732 114.3	3,180 76.8	1,552 37.5	4,314 104.2
Less than 2,500 grams						
All Causes	340,152	19,521 5,738.9	15,701 4,615.9	13,202 3,881.2	2,499 734.7	3,820 1,123.0
Congenital malformations (Q00-Q99).....		3,358 987.2	2,618 769.7	2,190 643.8	427 125.5	741 217.8
Short gestation and low birthweight nec (P07).....		4,602 1,352.9	4,490 1,320.0	4,385 1,289.1	105 30.9	112 32.9
Sudden infant death syndrome (R95).....		443 130.2	30 8.8	8 *	22 6.5	413 121.4
Maternal complications of pregnancy (P01).....		1,701 500.1	1,683 494.8	1,655 486.5	28 8.2	17 *
Complications of placenta, cord, membranes (P02).....		1,000 294.0	984 289.3	961 282.5	22 6.5	16 *
Accidents (unintentional injures) (V01-X59).....		199 58.5	28 8.2	9 *	19 *	171 50.3
Respiratory distress of newborn (P22).....		844 248.1	820 241.1	684 201.1	136 40.0	24 7.1
Bacterial sepsis of newborn (P36).....		745 219.0	708 208.1	281 82.6	427 125.5	36 10.6
Neonatal hemorrhage (P50-P52, P54).....		606 178.2	596 175.2	416 122.3	180 52.9	10 *

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, 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 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).....		266 78.2	68 20.0	34 10.0	34 10.0	198 58.2
All other causes.....		5,758 1,692.8	3,676 1,080.7	2,579 758.2	1,097 322.5	2,082 612.1
2,500 grams or more						
All Causes	3,797,879	8,741 230.2	2,963 78.0	1,694 44.6	1,269 33.4	5,778 152.1
Congenital malformations (Q00-Q99).....		2,208 58.1	1,295 34.1	806 21.2	488 12.8	914 24.1
Short gestation and low birthweight nec (P07).....		43 1.1	40 1.1	40 1.1	- -	3 *
Sudden infant death syndrome (R95).....		1,788 47.1	169 4.4	30 0.8	139 3.7	1,619 42.6
Maternal complications of pregnancy (P01).....		46 1.2	43 1.1	42 1.1	1 *	3 *
Complications of placenta, cord, membranes (P02).....		85 2.2	81 2.1	70 1.8	11 *	4 *
Accidents (unintentional injures) (V01-X59).....		883 23.2	94 2.5	17 *	77 2.0	789 20.8
Respiratory distress of newborn (P22).....		15 *	12 *	9 *	3 *	3 *
Bacterial sepsis of newborn (P36).....		94 2.5	90 2.4	46 1.2	44 1.2	4 *
Neonatal hemorrhage (P50-P52, P54).....		62 1.6	59 1.6	36 0.9	23 0.6	3 *
Diseases of the circulatory system (I00-I99).....		254 6.7	50 1.3	21 0.6	28 0.7	205 5.4
All other causes.....		3,261 85.9	1,030 27.1	576 15.2	454 12.0	2,231 58.7
Not stated birthweight						
All Causes	542	121 22,324.7	117 21,586.7	116 21,402.2	1 *	4 *
Congenital malformations (Q00-Q99).....		4 *	4 *	4 *	- -	- -
Short gestation and low birthweight nec (P07).....		53 9,778.6	53 9,778.6	53 9,778.6	- -	- -
Sudden infant death syndrome (R95).....		2 *	- -	- -	- -	2 *
Maternal complications of pregnancy (P01).....		22 4,059.0	22 4,059.0	22 4,059.0	- -	- -
Complications of placenta, cord, membranes (P02).....		10 *	10 *	10 *	- -	- -
Accidents (unintentional injures) (V01-X59).....		1 *	- -	- -	- -	1 *
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, 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 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).....	1	1	1	1	-	-
	*	*	*	*	-	-
Diseases of the circulatory system (I00-I99).....	-	-	-	-	-	-
	-	-	-	-	-	-
All other causes.....	26	25	24	24	1	1
	4,797.0	4,612.5	4,428.0	4,428.0	*	*
White						
All birthweights						
All Causes	3,229,494	18,500	12,173	9,660	2,512	6,328
		572.8	376.9	299.1	77.8	195.9
Congenital malformations (Q00-Q99).....	4,177	2,983	2,289	2,289	694	1,194
	129.3	92.4	70.9	70.9	21.5	37.0
Short gestation and low birthweight nec (P07).....	2,616	2,560	2,496	2,496	65	55
	81.0	79.3	77.3	77.3	2.0	1.7
Sudden infant death syndrome (R95).....	1,532	145	28	28	117	1,387
	47.4	4.5	0.9	0.9	3.6	42.9
Maternal complications of pregnancy (P01).....	1,037	1,025	1,005	1,005	20	12
	32.1	31.7	31.1	31.1	0.6	*
Complications of placenta, cord, membranes (P02).....	748	737	710	710	27	11
	23.2	22.8	22.0	22.0	0.8	*
Accidents (unintentional injuries) (V01-X59).....	742	80	19	19	61	662
	23.0	2.5	*	*	1.9	20.5
Respiratory distress of newborn (P22).....	526	512	431	431	81	14
	16.3	15.9	13.3	13.3	2.5	*
Bacterial sepsis of newborn (P36).....	525	503	223	223	280	22
	16.3	15.6	6.9	6.9	8.7	0.7
Neonatal hemorrhage (P50-P52, P54).....	477	467	324	324	143	10
	14.8	14.5	10.0	10.0	4.4	*
Diseases of the circulatory system (I00-I99).....	329	76	38	38	38	253
	10.2	2.4	1.2	1.2	1.2	7.8
All other causes.....	5,790	3,083	2,098	2,098	986	2,707
	179.3	95.5	65.0	65.0	30.5	83.8
Less than 2,500 grams						
All Causes	231,897	12,066	9,829	8,278	1,550	2,237
		5,203.2	4,238.5	3,569.7	668.4	964.7
Congenital malformations (Q00-Q99).....	2,462	1,943	1,644	1,644	299	519
	1,061.7	837.9	708.9	708.9	128.9	223.8
Short gestation and low birthweight nec (P07).....	2,559	2,506	2,441	2,441	65	53
	1,103.5	1,080.7	1,052.6	1,052.6	28.0	22.9
Sudden infant death syndrome (R95).....	255	19	6	6	13	236
	110.0	*	*	*	*	101.8
Maternal complications of pregnancy (P01).....	998	987	967	967	19	11
	430.4	425.6	417.0	417.0	*	*

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, 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 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
White						
Complications of placenta, cord, membranes (P02).....	676	667	649	18	9	
	291.5	287.6	279.9	*	*	
Accidents (unintentional injures) (V01-X59).....	108	18	6	12	90	
	46.6	*	*	*	38.8	
Respiratory distress of newborn (P22).....	516	503	424	80	12	
	222.5	216.9	182.8	34.5	*	
Bacterial sepsis of newborn (P36).....	454	434	186	248	20	
	195.8	187.2	80.2	106.9	8.6	
Neonatal hemorrhage (P50-P52, P54).....	436	427	301	126	9	
	188.0	184.1	129.8	54.3	*	
Diseases of the circulatory system (I00-I99).....	150	39	20	18	112	
	64.7	16.8	8.6	*	48.3	
All other causes.....	3,451	2,286	1,634	652	1,165	
	1,488.2	985.8	704.6	281.2	502.4	
2,500 grams or more						
All Causes	2,997,236	6,372	2,283	1,321	962	4,089
		212.6	76.2	44.1	32.1	136.4
Congenital malformations (Q00-Q99).....	1,712	1,037	642	395	675	
	57.1	34.6	21.4	13.2	22.5	
Short gestation and low birthweight nec (P07).....	27	25	25	-	2	
	0.9	0.8	0.8	-	*	
Sudden infant death syndrome (R95).....	1,275	126	22	104	1,149	
	42.5	4.2	0.7	3.5	38.3	
Maternal complications of pregnancy (P01).....	32	30	29	1	1	
	1.1	1.0	1.0	*	*	
Complications of placenta, cord, membranes (P02).....	65	63	54	9	2	
	2.2	2.1	1.8	*	*	
Accidents (unintentional injures) (V01-X59).....	633	62	13	49	571	
	21.1	2.1	*	1.6	19.1	
Respiratory distress of newborn (P22).....	9	7	6	1	2	
	*	*	*	*	*	
Bacterial sepsis of newborn (P36).....	71	69	37	32	2	
	2.4	2.3	1.2	1.1	*	
Neonatal hemorrhage (P50-P52, P54).....	40	39	22	17	1	
	1.3	1.3	0.7	*	*	
Diseases of the circulatory system (I00-I99).....	179	38	17	20	141	
	6.0	1.3	*	0.7	4.7	
All other causes.....	2,328	786	453	334	1,542	
	77.7	26.2	15.1	11.1	51.4	
Not stated birthweight						
All Causes	361	63	61	61	-	2
		17,451.5	16,897.5	16,897.5	-	*
Congenital malformations (Q00-Q99).....	3	3	3	-	-	
	*	*	*	-	-	
Short gestation and low birthweight nec (P07).....	29	29	29	-	-	
	8,033.2	8,033.2	8,033.2	-	-	

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, 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 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).....		8 *	8 *	8 *	- -	- -
Complications of placenta, cord, membranes (P02).....		7 *	7 *	7 *	- -	- -
Accidents (unintentional injures) (V01-X59).....		1 *	- -	- -	- -	1 *
Respiratory distress of newborn (P22).....		1 *	1 *	1 *	- -	- -
Bacterial sepsis of newborn (P36).....		- -	- -	- -	- -	- -
Neonatal hemorrhage (P50-P52, P54).....		1 *	1 *	1 *	- -	- -
Diseases of the circulatory system (I00-I99).....		- -	- -	- -	- -	- -
All other causes.....		11 *	11 *	11 *	- -	- -
Black						
All birthweights						
All Causes	633,152	8,393 1,325.6	5,649 892.2	4,603 727.0	1,047 165.4	2,743 433.2
Congenital malformations (Q00-Q99).....		1,062 167.7	717 113.2	540 85.3	177 28.0	344 54.3
Short gestation and low birthweight nec (P07).....		1,859 293.6	1,807 285.4	1,771 279.7	36 5.7	51 8.1
Sudden infant death syndrome (R95).....		597 94.3	47 7.4	8 *	39 6.2	550 86.9
Maternal complications of pregnancy (P01).....		656 103.6	648 102.3	639 100.9	9 *	8 *
Complications of placenta, cord, membranes (P02).....		303 47.9	294 46.4	289 45.6	5 *	9 *
Accidents (unintentional injures) (V01-X59).....		291 46.0	38 6.0	7 *	31 4.9	253 40.0
Respiratory distress of newborn (P22).....		295 46.6	283 44.7	233 36.8	49 7.7	12 *
Bacterial sepsis of newborn (P36).....		265 41.9	246 38.9	88 13.9	158 25.0	18 *
Neonatal hemorrhage (P50-P52, P54).....		150 23.7	148 23.4	103 16.3	45 7.1	2 *
Diseases of the circulatory system (I00-I99).....		153 24.2	31 4.9	13 *	18 *	122 19.3
All other causes.....		2,762 436.2	1,389 219.4	911 143.9	478 75.5	1,373 216.9
Less than 2,500 grams						
All Causes	86,460	6,463 7,475.1	5,070 5,864.0	4,266 4,934.1	803 928.8	1,393 1,611.1

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, 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 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).....		692	521	417	104	171
		800.4	602.6	482.3	120.3	197.8
Short gestation and low birthweight nec (P07).....		1,823	1,773	1,736	36	50
		2,108.5	2,050.7	2,007.9	41.6	57.8
Sudden infant death syndrome (R95).....		169	9	2	7	160
		195.5	*	*	*	185.1
Maternal complications of pregnancy (P01).....		628	621	612	9	6
		726.3	718.3	707.8	*	*
Complications of placenta, cord, membranes (P02).....		286	279	275	4	7
		330.8	322.7	318.1	*	*
Accidents (unintentional injures) (V01-X59).....		87	10	3	7	77
		100.6	*	*	*	89.1
Respiratory distress of newborn (P22).....		288	277	229	47	11
		333.1	320.4	264.9	54.4	*
Bacterial sepsis of newborn (P36).....		247	231	80	151	16
		285.7	267.2	92.5	174.6	*
Neonatal hemorrhage (P50-P52, P54).....		134	134	93	41	-
		155.0	155.0	107.6	47.4	-
Diseases of the circulatory system (I00-I99).....		94	22	9	13	72
		108.7	25.4	*	*	83.3
All other causes.....		2,014	1,192	810	382	822
		2,329.4	1,378.7	936.8	441.8	950.7
2,500 grams or more						
All Causes	546,550	1,878	528	285	243	1,349
		343.6	96.6	52.1	44.5	246.8
Congenital malformations (Q00-Q99).....		369	195	123	73	173
		67.5	35.7	22.5	13.4	31.7
Short gestation and low birthweight nec (P07).....		13	12	12	-	1
		*	*	*	-	*
Sudden infant death syndrome (R95).....		428	38	6	32	390
		78.3	7.0	*	5.9	71.4
Maternal complications of pregnancy (P01).....		14	12	12	-	2
		*	*	*	-	*
Complications of placenta, cord, membranes (P02).....		15	13	12	1	2
		*	*	*	*	*
Accidents (unintentional injures) (V01-X59).....		204	28	4	24	176
		37.3	5.1	*	4.4	32.2
Respiratory distress of newborn (P22).....		6	5	3	2	1
		*	*	*	*	*
Bacterial sepsis of newborn (P36).....		17	15	8	7	2
		*	*	*	*	*
Neonatal hemorrhage (P50-P52, P54).....		16	14	10	4	2
		*	*	*	*	*
Diseases of the circulatory system (I00-I99).....		59	9	4	5	50
		10.8	*	*	*	9.1
All other causes.....		735	185	91	95	550
		134.5	33.8	16.6	17.4	100.6

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, 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 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
Black						
Not stated birthweight						
All Causes	142	53	52	51	1	1
		37,323.9	36,619.7	35,915.5	*	*
Congenital malformations (Q00-Q99).....		1	1	1	-	-
		*	*	*	-	-
Short gestation and low birthweight nec (P07).....		22	22	22	-	-
		15,493.0	15,493.0	15,493.0	-	-
Sudden infant death syndrome (R95).....		-	-	-	-	-
		-	-	-	-	-
Maternal complications of pregnancy (P01).....		14	14	14	-	-
		*	*	*	-	-
Complications of placenta, cord, membranes (P02).....		2	2	2	-	-
		*	*	*	-	-
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.....		12	11	10	1	1
		*	*	*	*	*
American Indian¹						
All birthweights						
All Causes	44,815	361	181	132	49	180
		805.5	403.9	294.5	109.3	401.7
Congenital malformations (Q00-Q99).....		73	45	33	11	28
		162.9	100.4	73.6	*	62.5
Short gestation and low birthweight nec (P07).....		44	40	40	-	4
		98.2	89.3	89.3	-	*
Sudden infant death syndrome (R95).....		50	4	1	3	46
		111.6	*	*	*	102.6
Maternal complications of pregnancy (P01).....		7	7	7	-	-
		*	*	*	-	-
Complications of placenta, cord, membranes (P02).....		9	9	8	1	-
		*	*	*	*	-
Accidents (unintentional injures) (V01-X59).....		23	1	-	1	22
		51.3	*	-	*	49.1
Respiratory distress of newborn (P22).....		6	5	3	2	1
		*	*	*	*	*
Bacterial sepsis of newborn (P36).....		9	9	2	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, 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 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
American Indian ¹						
Neonatal hemorrhage (P50-P52, P54).....		5 *	4 *	3 *	1 *	1 *
Diseases of the circulatory system (I00-I99).....		6 *	2 *	1 *	1 *	4 *
All other causes.....		128	54	33	21	74
		285.6	120.5	73.6	46.9	165.1
Less than 2,500 grams						
All Causes	3,313	177	135	107	28	41
		5,342.6	4,074.9	3,229.7	845.2	1,237.5
Congenital malformations (Q00-Q99).....		34	25	21	4	9
		1,026.3	754.6	633.9	*	*
Short gestation and low birthweight nec (P07).....		44	40	40	-	4
		1,328.1	1,207.4	1,207.4	-	*
Sudden infant death syndrome (R95).....		8 *	1 *	-	1 *	7 *
Maternal complications of pregnancy (P01).....		7 *	7 *	7 *	-	-
Complications of placenta, cord, membranes (P02).....		6 *	6 *	6 *	-	-
Accidents (unintentional injures) (V01-X59).....		2 *	-	-	-	2 *
Respiratory distress of newborn (P22).....		6 *	5 *	3 *	2 *	1 *
Bacterial sepsis of newborn (P36).....		7 *	7 *	1 *	6 *	-
Neonatal hemorrhage (P50-P52, P54).....		5 *	4 *	3 *	1 *	1 *
Diseases of the circulatory system (I00-I99).....		4 *	2 *	1 *	1 *	2 *
All other causes.....		52	37	24	13	15
		1,569.6	1,116.8	724.4	*	*
2,500 grams or more						
All Causes	41,493	184	45	25	20	139
		443.4	108.5	60.3	48.2	335.0
Congenital malformations (Q00-Q99).....		38	19	12	7	19
		91.6	*	*	*	*
Short gestation and low birthweight nec (P07).....		-	-	-	-	-
Sudden infant death syndrome (R95).....		42	3	1	2	39
		101.2	*	*	*	94.0
Maternal complications of pregnancy (P01).....		-	-	-	-	-
Complications of placenta, cord, membranes (P02).....		3 *	3 *	2 *	1 *	-
Accidents (unintentional injures) (V01-X59).....		21	1	-	1	20
		50.6	*	-	*	48.2

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, 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 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						
Respiratory distress of newborn (P22).....	-	-	-	-	-	-
Bacterial sepsis of newborn (P36).....	2	2	1	1	-	-
	*	*	*	*	-	-
Neonatal hemorrhage (P50-P52, P54).....	-	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	2	-	-	-	2	*
	*	-	-	-	-	*
All other causes.....	76	17	9	8	59	
	183.2	*	*	*	142.2	
Not stated birthweight						
All Causes	9	-	-	-	-	-
	-	-	-	-	-	-
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	231,112	1,129	779	618	161	350
		488.5	337.1	267.4	69.7	151.4
Congenital malformations (Q00-Q99).....		259	171	138	33	88
		112.1	74.0	59.7	14.3	38.1
Short gestation and low birthweight nec (P07).....		179	175	171	4	4
		77.5	75.7	74.0	*	*
Sudden infant death syndrome (R95).....		55	3	1	2	52
		23.8	*	*	*	22.5

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, 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 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).....		68	68	68	-	-
		29.4	29.4	29.4	-	-
Complications of placenta, cord, membranes (P02).....		34	34	34	-	-
		14.7	14.7	14.7	-	-
Accidents (unintentional injures) (V01-X59).....		26	3	-	3	23
		11.2	*	-	*	10.0
Respiratory distress of newborn (P22).....		35	35	28	7	-
		15.1	15.1	12.1	*	-
Bacterial sepsis of newborn (P36).....		40	40	14	26	-
		17.3	17.3	*	11.2	-
Neonatal hemorrhage (P50-P52, P54).....		36	36	23	13	-
		15.6	15.6	10.0	*	-
Diseases of the circulatory system (I00-I99).....		31	8	3	5	23
		13.4	*	*	*	10.0
All other causes.....		365	205	138	67	160
		157.9	88.7	59.7	29.0	69.2
Less than 2,500 grams						
All Causes	18,482	816	668	551	117	148
		4,415.1	3,614.3	2,981.3	633.0	800.8
Congenital malformations (Q00-Q99).....		170	128	108	20	41
		919.8	692.6	584.4	108.2	221.8
Short gestation and low birthweight nec (P07).....		175	171	167	4	4
		946.9	925.2	903.6	*	*
Sudden infant death syndrome (R95).....		10	1	-	1	9
		*	*	-	*	*
Maternal complications of pregnancy (P01).....		68	68	68	-	-
		367.9	367.9	367.9	-	-
Complications of placenta, cord, membranes (P02).....		31	31	31	-	-
		167.7	167.7	167.7	-	-
Accidents (unintentional injures) (V01-X59).....		2	-	-	-	2
		*	-	-	-	*
Respiratory distress of newborn (P22).....		35	35	28	7	-
		189.4	189.4	151.5	*	-
Bacterial sepsis of newborn (P36).....		36	36	14	22	-
		194.8	194.8	*	119.0	-
Neonatal hemorrhage (P50-P52, P54).....		30	30	19	11	-
		162.3	162.3	*	*	-
Diseases of the circulatory system (I00-I99).....		17	5	3	2	12
		*	*	*	*	*
All other causes.....		241	161	112	49	80
		1,304.0	871.1	606.0	265.1	432.9
2,500 grams or more						
All Causes	212,600	307	106	62	44	201
		144.4	49.9	29.2	20.7	94.5
Congenital malformations (Q00-Q99).....		89	43	30	13	46
		41.9	20.2	14.1	*	21.6

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, 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 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						
Short gestation and low birthweight nec (P07).....		3 *	3 *	3 *	-	-
Sudden infant death syndrome (R95).....		43 20.2	2 *	1 *	1 *	41 19.3
Maternal complications of pregnancy (P01).....		-	-	-	-	-
Complications of placenta, cord, membranes (P02).....		2 *	2 *	2 *	-	-
Accidents (unintentional injuries) (V01-X59).....		24 11.3	3 *	-	3 *	21 9.9
Respiratory distress of newborn (P22).....		-	-	-	-	-
Bacterial sepsis of newborn (P36).....		4 *	4 *	-	4 *	-
Neonatal hemorrhage (P50-P52, P54).....		5 *	5 *	3 *	2 *	-
Diseases of the circulatory system (I00-I99).....		14 *	3 *	-	3 *	11 *
All other causes.....		122 57.4	41 19.3	23 10.8	18 *	80 37.6
Not stated birthweight						
All Causes	30	6 *	5 *	5 *	-	1 *
Congenital malformations (Q00-Q99).....		-	-	-	-	-
Short gestation and low birthweight nec (P07).....		1 *	1 *	1 *	-	-
Sudden infant death syndrome (R95).....		1 *	-	-	-	1 *
Maternal complications of pregnancy (P01).....		-	-	-	-	-
Complications of placenta, cord, membranes (P02).....		1 *	1 *	1 *	-	-
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.....		3 *	3 *	3 *	-	-

*/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, 2005

[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 2005 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	365	275	244	31	90
White	222	173	156	17	49
Black	124	89	76	13	35
Alabama					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Alaska					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Arizona					
Total	14	8	3	5	6
White	12	7	3	4	5
Black	1	-	-	-	1
Arkansas					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
California					
Total	107	80	74	6	27
White	76	57	51	6	19
Black	17	15	15	-	2
Colorado					
Total	1	-	-	-	1
White	-	-	-	-	-
Black	1	-	-	-	1
Connecticut					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Delaware					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Dist of Columbia					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Florida					
Total	3	-	-	-	3
White	2	-	-	-	2
Black	1	-	-	-	1
Georgia					
Total	2	-	-	-	2
White	-	-	-	-	-
Black	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, 2005

[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 2005 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	22	17	15	2	5
White	10	9	9	-	1
Black	12	8	6	2	4
Indiana					
Total	2	1	1	-	1
White	-	-	-	-	-
Black	2	1	1	-	1
Iowa					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Kansas					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Kentucky					
Total	2	2	2	-	-
White	2	2	2	-	-
Black	-	-	-	-	-
Louisiana					
Total	38	29	18	11	9
White	9	7	5	2	2
Black	29	22	13	9	7
Maine					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Maryland					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Massachusetts					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
Michigan					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Minnesota					
Total	1	-	-	-	1
White	-	-	-	-	-
Black	1	-	-	-	1
Mississippi					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2005

[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 2005 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	2	-	-	-	2
White	2	-	-	-	2
Black	-	-	-	-	-
Montana					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Nebraska					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Nevada					
Total	7	1	1	-	6
White	4	1	1	-	3
Black	3	-	-	-	3
New Hampshire					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
New Jersey					
Total	4	4	4	-	-
White	4	4	4	-	-
Black	-	-	-	-	-
New Mexico					
Total	1	1	1	-	-
White	1	1	1	-	-
Black	-	-	-	-	-
New York					
Total	8	6	6	-	2
White	7	6	6	-	1
Black	1	-	-	-	1
New York City					
Total	2	2	2	-	-
White	1	1	1	-	-
Black	1	1	1	-	-
North Carolina					
Total	2	1	1	-	1
White	2	1	1	-	1
Black	-	-	-	-	-
North Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Ohio					
Total	34	24	22	2	10
White	19	14	12	2	5
Black	15	10	10	-	5
Oklahoma					
Total	2	2	2	-	-
White	1	1	1	-	-
Black	-	-	-	-	-

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2005

[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 2005 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	4	4	3	1	-
White	3	3	2	1	-
Black	-	-	-	-	-
Pennsylvania					
Total	6	5	5	-	1
White	4	4	4	-	-
Black	2	1	1	-	1
Rhode Island					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
South Carolina					
Total	1	-	-	-	1
White	-	-	-	-	-
Black	1	-	-	-	1
South Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Tennessee					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Texas					
Total	98	88	84	4	10
White	61	55	53	2	6
Black	35	31	29	2	4
Utah					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Vermont					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Virginia					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Washington					
Total	1	-	-	-	1
White	1	-	-	-	1
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, 2005

[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 2005 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.