

**Public Use  
Data File  
Documentation**

2007 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

# **2007 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 2007 Period Linked Birth/Infant Death Data Set](#)

[User's Guide for the 2007 Natality File](#)

[Deaths: Final Data for 2007](#) (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 2007 period linked file. Differences between period and birth cohort data are outlined below.

Period data - The numerator for the 2007 period linked file consists of all infant deaths occurring in 2007 linked to their corresponding birth certificates, whether the birth occurred in 2006 or 2007. The denominator file for this data set is the 2007 natality file, that is, all births occurring in 2007.

Birth cohort data - The numerator for the 2007 birth cohort linked file consists of deaths to infants born in 2007 whether the death occurred in 2007 or 2008. The denominator file is the 2007 natality file, that is, all births occurring in 2007.

The 2007 period linked birth/infant death data set includes several data files. The first file includes all US infant deaths which occurred in the 2007 data year linked to their corresponding birth certificates, whether the birth occurred in 2006 or 2007 - 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 2007 NCHS natality file for the US, which is used to provide denominators for rate computations. These same three data files are also available for Puerto Rico, the Virgin Islands, and Guam.

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

This data file includes data based on both the 1989 Revision of the U.S. Standard Certificate of Live Birth (unrevised) and the 2003 revision of the U.S. Standard Certificate of Live Birth (revised). The 2003 revision is described in detail elsewhere. (See the 2003 Revision website at: [http://www.cdc.gov/nchs/nvss/vital\\_certificate\\_revisions.htm](http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm) . Twenty-two states, California, Colorado, Delaware, Florida, Idaho, Indiana, Iowa, Kansas, Kentucky, Nebraska, New Hampshire, New York (excluding New York City), North Dakota, Ohio, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Vermont, Washington and Wyoming and Puerto Rico, implemented the 2003 revision on or before January 1, 2007. Where comparable, revised data are combined with data from the remaining reporting areas. (Revised data are denoted by "R;" unrevised data are denoted by "U" in the "Rev" column of the documentation.) Where data for the 1989 and 2003 certificate revisions are not comparable (e.g., educational attainment of the mother), unrevised and revised data are given in separate fields in the data file.

This file includes data for twenty-three states (California, Connecticut, Delaware, Florida, Idaho, Kansas, Michigan, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Washington, and Wyoming) and the District of Columbia, which implemented the 2003 revision of the U.S. Standard Certificate of Death as of January 1, 2007. Data from

all other areas are based on the 1989 revision. Most of the variables from the death certificate in this file are comparable despite changes to item wording and format in the 2003 revision. See more about the 2003 Revision at:

[http://www.cdc.gov/nchs/nvss/vital\\_certificate\\_revisions.htm](http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm) .

## **Incomplete National Reporting - Using Reporting Flags**

As a result of the delayed, phased transition to the 2003 U.S. Standard Certificate of Live Birth, the 2007 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 2007 linked file contains information on infants born in both 2006 and 2007 (see description of the period linked file above). As reporting areas changed between 2006 and 2007, 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 2006 and 2007. 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 2007 linked file are different from those for the 2007 birth file, as items had to be reported by a state in both 2006 and 2007 to be able to provide complete data. Thus, data for non-comparable items from states that revised in 2007 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 2007 linked file, for data items which are not common or comparable across certificate revisions, events to residents of a revised state occurring in an unrevised state, and events to residents in an unrevised state occurring in a revised state, are represented by "blanks." Blanks should be treated as "unknowns" for tabulations.

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

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

An example of SAS code that may be used to incorporate the correct use of reporting flags and the translation of blanks is shown below. This example is for the revised prenatal care item. Prenatal care data based on the revised certificate are not considered comparable to data based on the unrevised certificate. Accordingly, use of the reporting flag for this item will produce 2007 data for the month prenatal care began for the eighteen revised states which had implemented the revised certificate by January 1<sup>st</sup> 2006. Data for states which implemented the revised certificates in 2007 are excluded, as part of their linked file births (those born in 2006) were reported on the unrevised certificate.

#### Sample SAS program

```
01 DATA work;
02     INFILE 'C:VS07LINK.USNUMPUB' 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:VS07LINK.USNUMPUB ' LRECL=1259;
```



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 3.09 to 0.37 in the numerator file, and from 0.11 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.

## **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 2007 linked file 1.6% 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 2007" 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 2007 linked file for the 50 States and D.C. includes 28,715 linked infant death records and 467 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 29,182. While the overall percent linked for infant deaths in the 2007 file is 98.4%, there are differences in percent linked by certain variables. These differences have important implications for how the data is analyzed.

Table 1 below shows the percent of infant deaths linked by state of occurrence of death. While many states link all of their infant deaths, linkage rates for some states are below the national average. Note in particular the percent linked for Alaska (95.6), Arizona (97.0), California (95.7), Louisiana (93.7), Nevada (96.5), and Texas (93.6). 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, 2007 linked file

United States	98.4	Nebraska	100.0
Alabama	100.0	Nevada	96.5
Alaska	95.6	New Hampshire	100.0
Arizona	97.0	New Jersey	99.2
Arkansas	100.0	New Mexico	98.3
California	95.7	New York State	98.0
Colorado	100.0	New York City	99.1
Connecticut	100.0	North Carolina	99.9
Delaware	100.0	North Dakota	100.0
District of Columbia	99.6	Ohio	98.5
Florida	100.0	Oklahoma	99.5
Georgia	99.4	Oregon	100.0
Hawaii	100.0	Pennsylvania	99.6
Idaho	100.0	Rhode Island	100.0
Illinois	98.5	South Carolina	100.0
Indiana	99.7	South Dakota	100.0
Iowa	100.0	Tennessee	100.0
Kansas	100.0	Texas	93.6
Kentucky	99.1	Utah	98.7
Louisiana	93.7	Vermont	100.0

Maine	100.0	Virginia	99.7
Maryland	99.8	Washington	99.8
Massachusetts	99.3	West Virginia	100.0
Michigan	99.6	Wisconsin	100.0
Minnesota	100.0	Wyoming	100.0
Mississippi	99.8	Puerto Rico	99.7
Missouri	99.6	Virgin Islands	90.0
Montana	100.0	Guam	100.0

While the weighting protocol has been designed to correct for possible bias due to variations in match rates by characteristics, no statistical method can correct perfectly for data limitations. Therefore, slight variations in the percent of records linked should be taken into consideration when comparing infant mortality rates by detailed characteristics.

### **Confidentiality**

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

### **Demographic and Medical Classification**

The documents listed below describe in detail the procedures employed for demographic classification on both the birth and death records and medical classification on death records. These documents, while not absolutely essential to the proper interpretation of the data for a number of general applications, should nevertheless be studied carefully prior to any detailed analysis of demographic or medical data variables. In particular, there are a number of exceptions to the ICD rules in multiple cause-of-death coding which, if not treated properly, may result in faulty analysis of the data. Volumes 1, 2 and 3 of the ICD-10 may be purchased from the World Health Organization (WHO) Publication Center USA, 49 Sheridan Avenue, Albany, New York, 12210 (<http://www.who.int/whosis/icd10/index.html>). Many of the instruction manuals listed below are available electronically on the NCHS website at:

<http://www.cdc.gov/nchs/about/major/dvs/im.htm>. In addition, users who do not already have access to these documents may request them from the Chief, Mortality Medical Classification Branch, Division of Vital Statistics, National Center for Health Statistics, P.O. Box 12214, Research Triangle Park, North Carolina 27709. The technical appendix for natality and the mortality final report for 2007 included in this document also provide information on the source of data, coding procedures, quality of the data, etc.

- A. National Center for Health Statistics. Vital statistics, Instructions for Classifying the Underlying Cause-of-Death, 2008. NCHS Instruction Manual, Part 2a. Hyattsville, Maryland: Public Health Service.

- B. National Center for Health Statistics. Vital statistics, Instructions for Classifying Multiple Cause-of-Death, 2008. NCHS Instruction Manual, Part 2b. Hyattsville, Maryland: Public Health Service.
- C. National Center for Health Statistics. Vital statistics, ICD-10 ACME Decision Tables for Classifying Underlying Causes-of-Death, 2008. NCHS Instruction Manual, Part 2c. Hyattsville, Maryland: Public Health Service.
- D. National Center for Health Statistics. Specifications for U.S. Standard Certificate of Birth – 2003 Revision.
- E. National Center for Health Statistics. Specifications for U.S. Standard Certificate of Death – 2003 Revision.
- F. National Center for Health Statistics. Vital statistics, Computer Edits for Natality Data, Effective 1993. NCHS Instruction Manual Part 12. Hyattsville, Maryland: Public Health Service.
- G. National Center for Health Statistics. Vital statistics, Computer Edits for Mortality Data, Effective 2007. NCHS Instruction Manual Part 11. Hyattsville, Maryland: Public Health Service.

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

Also see: [http://www.cdc.gov/nchs/nvss/vital\\_certificate\\_revisions.htm](http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm) for the most recent information about revised certificates.

### **Underlying Cause of Death Data**

Mortality statistics by cause of death are compiled from entries on the medical certification portion of the death certificate. The U.S. Standard Certificate of Death is shown in the Mortality Technical Appendix which is included in this documentation. Causes of death include “all those diseases, morbid conditions or injuries which either resulted in or contributed to death and the circumstances of the accident or violence which produced these injuries”. The medical certification of death is divided into two sections. In Part I, the physician is asked to provide the causal chain of morbid conditions that led to death, beginning with the condition most proximate to death on line (a) and working backwards to the initiating condition. The lines (a) through (d) in Part I are connected by the phrase “due to, or as a consequence of.” They were designed to encourage the physician to provide the causally related sequence of medical conditions that resulted in death. Thus, the condition on line (a) should be due to the condition on line (b), and the condition on line (b) should be a consequence of the condition on line (c), etc., until the full sequence is described back to the originating or initiating condition. If only one step in the chain of morbid events is recorded, a single entry on line (a) is adequate. Part I of the medical certification is designed to facilitate the selection of the underlying cause of death when two or more causes are recorded on the certificate. The underlying cause of death is

defined by the WHO in the ICD-10 as “(a) the disease or injury which initiated the chain of morbid events leading directly to death, or (b) the circumstances of the accident or violence that produced the fatal injury” and is generally considered the most useful cause from a public health standpoint. Part II of the cause-of-death section of the death certificate solicits other conditions that the certifier believed contributed to death, but were not in the causal chain. While some details of the death certificate vary by state, all states use the same general format for medical certification outlined in the U.S. Standard Certificate. The U.S. Standard Certificate, in turn, closely follows the format recommended by the WHO.

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

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

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

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

In addition to changes due to the implementation of a new ICD revision, rules for coding a cause of death may occasionally require modification at other times, when evidence suggests that such modifications will improve the quality of cause-of-death data. These changes may affect comparability of data between years for select causes of death.

### **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.

## 2007 Period Linked Birth/Infant Death Data Set

### Numerator Files:

#### United States

A. Record count:	28,715
B. Record length:	1,259
C. Data counts:	a. By occurrence: 28,715 b. By residence: 28,687 c. To foreign residents: 28

#### Territories

A. Record count:	440
B. Record length:	1,259

### Denominator Files:

#### United States

A. Record count:	4,324,008
B. Record length:	868
C. Data counts:	a. By occurrence: 4,324,008 b. By residence: 4,316,233 c. To foreign residents: 7,775

#### Territories

A. Record count:	51,998
B. Record length:	868

### Unlinked Files:

#### United States

A. Record count:	467
B. Record length:	1,259

#### Territories

A. Record count:	2
B. Record length:	1,259

## Linked 2007 Data Elements and Locations

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

Number prenatal visits	270-73	270-73	--	--
Live birth order	212	212	--	--
Total birth order	217	217	--	--
Month of last live birth	220-21	220-21	--	--
Year of last live birth	222-25	222-25	--	--
Medical and health data				
Method of delivery	390-403	390-403	--	--
Medical risk factors	313-19, 328-37	313-19, 328-37	--	--
Tobacco	284-94	284-94	--	--
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	476-82	476-82	--	--
Congenital anomalies	492-523	492-523	--	--
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	569-771	569-771	--	--
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
<b>2007 LINKED FILE PUBLIC-USE RECORD LAYOUT</b>							
1-6	6	FILLER	<b>Filler</b>				
7	1	REVISION	<b>Revision</b>		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	<b>Filler</b>				
9	1	LATEREC	<b>Late Record Flag</b>		U,R	0	Not late record
						1	Late record
10-14	5	FILLER	<b>Filler</b>				
15-18	4	DOB_YY	<b>Birth Year</b>		U,R	2006 2007	2006 2007
19-20	2	DOB_MM	<b>Birth Month</b>		U,R	01 02 03 04 05 06 07 08 09 10 11 12	January February March April May June July August September October November December
21-28	8	FILLER	<b>Filler</b>				
29	1	DOB_WK	<b>Weekday</b>		U,R	1 2 3 4 5 6 7	Sunday Monday Tuesday Wednesday Thursday Friday Saturday
30-31	2	OSTATE	<b>Occurrence Territory</b>		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
			(This item is available in the territory file only, geographic codes are not available in the U.S.file)				
			<u>Outlying Areas of the U.S.</u>			GU PR VI	Guam Puerto Rico Virgin Islands
32-36	5	FILLER	<b>Filler</b>				
37-39	3	OCNTYFIPS	<b>Occurrence County</b> (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	<b>Occurrence County Pop</b> (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	<b>Birth Place (Revised)</b>	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	<b>Birth Place</b>		U,R	1 2 3 4 5 9	Hospital Freestanding Birthing Center Clinic / Doctor's Office Residence Other Unknown
43-58	16	FILLER	<b>Filler</b>				
		* 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
59	1	BFACIL3	<b>Birth Place Recode</b>		U,R	1 2 3	In Hospital Not in Hospital Unknown or Not Stated
60-86	27	FILLER	<b>Filler</b>				
87	1	MAGE_IMPFLG	<b>Mother's Age Imputed</b>		U,R	Blank 1	Age not imputed Age imputed
88	1	MAGE_REPFLG	<b>Reported Age of Mother Flag</b>		U,R	Blank 1	Reported age not used Reported age used
89-90	2	MAGER	<b>Mother's Age Recode 41</b>		U,R	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	10 – 12 years 13 years 14 years 15 years 16 years 17 years 18 years 19 years 20 years 21 years 22 years 23 years 24 years 25 years 26 years 27 years 28 years 29 years 30 years 31 years 32 years 33 years 34 years 35 years 36 years 37 years 38 years 39 years 40 years 41 years 42 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
						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	<b>Mother's Age Recode 14</b>		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	<b>Mother's Age Recode 9</b>		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
94-95	2	MBCNTRY	<b>Mother's Birth Country</b> (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	<b>Filler</b>				
109-110	2	MRTERR	<b>Mother's Residence</b>		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
			(This item is available in the territory file only, geographic codes are not available in the U.S.file)			GU PR VI CC CU MX US XX ZZ	Guam Puerto Rico Virgin Islands Canada Cuba Mexico United States Not Applicable Not Classifiable
111-113	3	FILLER	<b>Filler</b>				
114-116	3	MRCNTY	<b>Mother's County of residence</b> (This item is available in the territory file only, geographic codes are not available in the U.S.file)			127 999	San Juan County of less than 250,000 or foreign resident
			<u>Puerto Rico</u>			000 999	No county level geography County of less than 250,000 or foreign resident
			<u>Other Outlying Areas of the US</u>				
117-131	15	FILLER	<b>Filler</b>				
132	1	RCNTY_POP	<b>Population of Residence County</b> (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 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	<b>Filler</b>				
137	1	RECTYPE	<b>Record Type</b> (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.
		* 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
138	1	RESTATUS	<b>Residence Status</b> <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	<b>Mother's Bridged Race</b> 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 Blank	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 Not on certificate
			** Also includes unrevised states that report multiple race.				
141-142	2	MRACE	<b>Mother's Race</b>		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
			Includes only states exclusively reporting single race. Some areas report additional Asian or Pacific Islander (API) codes for race. Codes 18-68 replace former code 08 for these areas. Code 78 replaces former code 08 for all other areas. See reporting flag at position 650 for API reporting area.				
			<u>United States</u>			01	White
						02	Black
						03	American Indian / Alaskan 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.
						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

\* 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
						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	<b>Mother's Race Recode</b> 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 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
						0	Other (not classified as White or Black)
144	1	MRACEIMP	<b>Mother's Race Imputed Flag</b>		U,R	Blank	Mother's race not imputed
						1	Unknown race imputed
						2	All other races, formerly coded 09, imputed.
145-147	3	FILLER	<b>Filler</b>				
148	1	UMHISP	<b>Mother's Hispanic Origin</b>	569	U,R	0	Non-Hispanic
						1	Mexican
						2	Puerto Rican
						3	Cuban
						4	Central American
						5	Other and Unknown Hispanic
						9	Origin unknown or not stated
149	1	MRACEHISP	<b>Mother's Race/Hispanic Origin</b>	569	U,R	1	Mexican
						2	Puerto Rican
						3	Cuban
						4	Central or South American

\* 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 and Unknown Hispanic
						6	Non-Hispanic White
						7	Non-Hispanic Black
						8	Non-Hispanic Other Races
						9	Origin unknown or not stated
150-152	3	FILLER	<b>Filler</b>				
153	1	MAR	<b>Mother's Marital Status</b>		U,R		
			<u>United States and all Outlying Areas of the US except Puerto Rico</u>			1	Yes
						2	No
						9	Unknown or not Stated
			<u>Puerto Rico</u>			1	Yes
						2	Unmarried parents living together
						3	Unmarried parents not living together
						9	Unknown or not stated
154	1	MAR_IMP	<b>Mother's Marital Status Imputed Flag</b>		U,R	Blank	Marital Status not imputed
						1	Marital Status imputed
155	1	MEDUC	<b>Mother's Educ –Revised</b>	571	R		
						1	8 <sup>th</sup> grade or less
						2	9 <sup>th</sup> through 12 <sup>th</sup> grade with no diploma
						3	High school graduate or GED completed
						4	Some college credit, but not a degree.
						5	Associate degree (AA,AS)
						6	Bachelor's degree (BA, AB, BS)
						7	Master's degree (MA, MS, MEng, MEd, MSW, MBA)
						8	Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD)
						9	Unknown
						Blank	Not on certificate
156-157	2	UMEDUC	<b>Mother's Educ –Unrevised</b>	647	U		
						00	No formal education
						01-08	Years of elementary school
						09	1 year of high school
						10	2 years of high school
						11	3 years of high school
						12	4 years of high school
						13	1 year of college
						14	2 years of college
						15	3 years of college
						16	4 years of college

\* 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
						17 99 Blank	5 or more years of college Not stated Not on certificate
158	1	MEDUC_REC	<b>Mother's Education Recode</b> 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	<b>Filler</b>				
175	1	FAGERPT_FLG	<b>Father's Reported Age Used</b>		U,R	Blank 1	Father's reported age not used Father's reported age used
176-181	6	FILLER	<b>Filler</b>				
182-183	2	FAGECOMB	<b>Father's Combined Age (Revised)</b>		R	09-98 99 Blank	Father's combined age in years Unknown or not stated Not on certificate
184-185	2	UFAGECOMB	<b>Father's Combined Age (Unrevised)</b>		U	10-98 99	Father's combined age in years Unknown or not stated
186-187	2	FAGEREC11	<b>Father's Age Recode 11</b>		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	<b>Father's Bridged Race</b> 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		R**	01 02 03 04 05 06	White – single race Black – single race American Indian/Alaska Native – single race Asian Indian – single race Chinese – single race Filipino – 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
			more than one Asian/Pacific Islander group; see "Technical Appendix."			07 08 09 10 11 12 13 14 21 22 23 24 99	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 multiple race.
			** Also includes unrevised states that report multiple race.			Blank	Not on certificate
190	1	FILLER	<b>Filler</b>				
191	1	FRACEREC	<b>Father's Race Recode</b> 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	<b>Filler</b>				
195	1	UFHISP	<b>Father's Hispanic Origin</b>	570	U,R	0 1 2 3 4 5	Non-Hispanic Mexican Puerto Rican Cuban Central American Other and Unknown Hispanic
		* 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
196	1	FRACEHISP	<b>Father's Race/Hispanic Origin</b>	570	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
197-198	2	FILLER	<b>Filler</b>				
199-200	2	UFACE	<b>Father's Race (Unrevised)</b>		U		
			<u>United States</u>			01 02 03 04 05 06 07 18 28 38 48 58 68 78 99 Blank	White Black American Indian / Alaska 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. Unknown or not stated Not on certificate
			<u>Puerto Rico</u>			01 03 00 99 Blank	White Black Other races not classified white or black Unknown or not stated Not on certificate
			<u>Guam</u>			01 02 03	White Black American Indian / Alaska Native

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

\* 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
						11	November
						12	December
						88	Not applicable
						99	Unknown or not stated
222-225	4	DLLB_YY	<b>Date of Last Live Birth Year</b>		R	nnnn 8888 9999	Year of last live birth Not applicable Unknown or not stated
226-244	19	FILLER	<b>Filler</b>				
245-246	2	PRECARE	<b>Month Prenatal Care Began (Revised)</b>				
			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	<b>Month Prenatal Care Began Recode (Revised)</b>				
			668		R	1 2 3 4 5 Blank	1 <sup>st</sup> to 3 <sup>rd</sup> month 4 <sup>th</sup> to 6 <sup>th</sup> month 7 <sup>th</sup> to final month No prenatal care Unknown or not stated Not on certificate
248-255	8	FILLER	<b>Filler</b>				
256-257	2	MPCB	<b>Month Prenatal Care Began (Unrevised)</b>				
			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	<b>Month Prenatal Care Began Recode 6 (Unrevised)</b>				
			669		U	1 2 3 4 5 6 Blank	1 <sup>st</sup> to 2 <sup>nd</sup> month 3 <sup>rd</sup> month 4 <sup>th</sup> to 6 <sup>th</sup> month 7 <sup>th</sup> to final month No prenatal care Unknown or not stated Not on certificate
259	1	MPCB_REC5	<b>Month Prenatal Care Began Recode 5 (Unrevised)</b>				
			669		U	1	1 <sup>st</sup> trimester (1 <sup>st</sup> to 3 <sup>rd</sup> month)

\* 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	2 <sup>nd</sup> trimester (4 <sup>th</sup> to 6 <sup>th</sup> month)
						3	3 <sup>rd</sup> trimester (7 <sup>th</sup> to final month)
						4	No prenatal care
						5	Unknown or not stated
						Blank	Not on certificate
260-269	10	FILLER	<b>Filler</b>				
270-271	2	UPREVIS	<b>Number of Prenatal Visits</b>		U,R	00-49 99	Number of prenatal visits Unknown or not stated
272-273	2	PREVIS_REC	<b>Number of Prenatal Visits Recode</b>		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
274-275	2	FILLER	<b>Filler</b>				
276-277	2	WTGAIN	<b>Weight Gain</b>	648	U,R	00-97 98 99	Weight gain in pounds 98 pounds and over Unknown or not stated
278	1	WTGAIN_REC	<b>Weight Gain Recode</b>	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
280	1	DFPC_IMP	<b>Day of Date First Prenatal Care Imputed</b>		R	Blank 1	Day of date first prenatal care not imputed Day of date first prenatal care imputed
281-283	3	FILLER	<b>Filler</b>				
		* 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
284-285	2	CIG_1	<b>Cigarettes 1<sup>st</sup> Trimester</b>	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
286-287	2	CIG_2	<b>Cigarettes 2<sup>nd</sup> Trimester</b>	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	<b>Cigarettes 3<sup>rd</sup> Trimester</b>	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	<b>Tobacco Use</b>	667	U	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
291-292	2	CIGS	<b>Cigarettes per Day</b>	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	<b>Cigarette Recode</b>	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	<b>Cigarette Recode</b>	575	R	Y N U Blank	Yes No Unknown or not stated Not on certificate
295-312	18	FILLER	<b>Filler</b>				
313-319	9	<b><u>Risk Factors (Revised)</u></b>				Y	Yes
		The checkbox items below follow this code structure:					
* 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 or not stated
						Blank	Not on certificate
313	1	RF_DIAB	<b>Prepregnancy Diabetes</b>	582	R		
314	1	RF_GEST	<b>Gestational Diabetes</b>	583	R		
315	1	RF_PHYP	<b>Prepregnancy Hypertesion</b>	584	R		
316	1	RF_GHYP	<b>Gestational Hypertension</b>	585	R		
317	1	RF_ECLAM	<b>Eclampsia</b>	586	R		
318	1	RF_PPTERM	<b>Previous Preterm Birth</b>	587	R		
319	1	RF_PPOUTC	<b>Poor Pregnancy Outcome</b>	588	R		
320-323	4	FILLER	<b>Filler</b>				
324	1	RF_CESAR	<b>Previous Cesarean Deliveries</b>	593	R	Y	Yes
						N	No
						U	Unknown or not stated
						Blank	Not on certificate
325-326	2	RF_CESARN	<b>Number of Previous Cesarean Deliveries</b>	594	R	00	None
						01-30	Number of previous cesareans
						99	Unknown or not stated
						Blank	Not on certificate
327	1	FILLER	<b>Filler</b>				
328-337	10	<b><u>Risk Factors in this Pregnancy</u></b> 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
328-330	3	FILLER	<b>Filler</b>				
331	1	URF_DIAB	<b>Diabetes</b>	684	U,R		
332-334	3	FILLER	<b>Filler</b>				
335	1	URF_CHYPER	<b>Chronic Hypertension</b>	688	U,R		
336	1	URF_PHYPER	<b>Prepregnancy Associated Hypertension</b>	689	U,R		
337	1	URF_ECLAM	<b>Eclampsia</b>	690	U,R		
338-350	13	FILLER	<b>Filler</b>				
351-354	4	<b><u>Obstetric Procedures (Revised)</u></b> The checkbox items indented below follow this structure:				Y	Yes
						N	No
						U	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	
351	1	OP_CERV	<b>Cervical Cerclage</b>	601	R			
352	1	OP_TOCOL	<b>Tocolysis</b>	602	R			
353	1	OP_ECVS	<b>Successful External Cephalic Version</b>	603	R			
354	1	OP_ECVF	<b>Failed External Cephalic Version</b>	604	R			
355-361	7	<b><u>Obstetric Procedures (Unrevised)</u></b>						
		The checkbox items indented below follow this structure:				1	Yes	
		The version is all 1989 Standard unless otherwise noted.				2	No	
						9	Unknown or not stated	
						Blank	Not on certificate	
355-356	2	FILLER	<b>Filler</b>					
357	1	UOP_INDUC	<b>Induction of Labor</b>	703	U,R			
358	1	FILLER	<b>Filler</b>					
359	1	UOP_TOCOL	<b>Tocolysis</b>	705	U,R			
360-361	2	FILLER	<b>Filler</b>					
362-364	3	<b><u>Onset of Labor</u></b>						
		The checkbox items below follow this structure:				Y	Yes	
						N	No	
						U	Unknown or not stated	
						Blank	Not on certificate	
362	1	ON_RUPTR	<b>Premature Rupture of Membrane</b>	605	R			
363	1	ON_PRECIP	<b>Precipitous Labor</b>	606	R			
364	1	ON_PROL	<b>Prolonged Labor</b>	607	R			
365-373	9	<b><u>Characteristics of Labor and Delivery (Revised)</u></b>						
		The checkbox items below follow this structure:				Y	Yes	
						N	No	
						U	Unknown or not stated	
						Blank	Not on certificate	
365	1	LD_INDL	<b>Induction of Labor</b>	608	R			
366	1	LD_AUGM	<b>Augmentation of Labor</b>	609	R			
367	1	LD_NVPR	<b>Non-Vertex Presentation</b>	610	R			
368	1	LD_STER	<b>Steriods</b>	611	R			
369	1	LD_ANTI	<b>Antibiotics</b>	612	R			
370	1	LD_CHOR	<b>Chorioamnionitis</b>	613	R			
371	1	LD_MECS	<b>Meconium Staining</b>	614	R			
372	1	LD_FINT	<b>Fetal Intolerance</b>	615	R			
373	1	LD_ANES	<b>Anesthesia</b>	616	R			
374-389	16	<b><u>Complications of Labor and Delivery</u></b>						
		* 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	
			The checkbox items indented below follow this structure:				1	Yes
						2	No	
						9	Unknown or not stated	
						Blank	Not on certificate	
374	1	FILLER	<b>Filler</b>					
375	1	ULD_MECO	<b>Meconium</b>	712	U,R			
376-380	5	FILLER	<b>Filler</b>					
381	1	ULD_PRECIP	<b>Precipitous Labor</b>	718	U,R			
382-383	2	FILLER	<b>Filler</b>					
384	1	ULD_BREECH	<b>Breech</b>	721	U,R			
385-389	5	FILLER	<b>Filler</b>					
390-394	5	<b><u>Method of Delivery (Revised)</u></b>						
390	1	ME_ATTf	<b>Attempted Forceps</b>	617	R	Y N U Blank	Yes No Unknown Not on certificate	
391	1	ME_ATTv	<b>Attempted Vacuum</b>	618	R	Y N U Blank	Yes No Unknown Not on certificate	
392	1	ME_PRES	<b>Fetal Presentation</b>	619	R	1 2 3 9 Blank	Cephalic Breech Other Unknown Not on certificate	
393	1	ME_ROUT	<b>Route &amp; Method of Delivery</b>	620	R	1 2 3 4 9 Blank	Spontaneous Forceps Vacuum Cesarean Unknown Not on certificate	
394	1	ME_TRIAL	<b>Trial of Labor Attempted</b>	621	R	Y N X U Blank	Yes No Not applicable Unknown Not on certificate	

395-400 6 **Method of Delivery (Unrevised)**

\* 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	
			The checkbox items indented below follow this structure:				1	Yes
						2	No	
						9	Unknown or not stated	
395	1	UME_VAG	<b>Vaginal</b>	730	U			
396	1	UME_VBAC	<b>Vaginal after C-Section</b>	731	U			
397	1	UME_PRIMC	<b>Primary C-Section</b>	732	U			
398	1	UME_REPEC	<b>Repeat C-Section</b>	733	U			
399	1	UME_FORCP	<b>Forceps</b>	734	U,R			
400	1	UME_VAC	<b>Vacuum</b>	735	U,R			
401	1	RDMETH_REC	<b>Delivery Method Recode (Revised)</b>	679	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	<b>Delivery Method Recode (Unrevised)</b>	680	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	<b>Filler</b>					
410	1	ATTEND	<b>Attendant</b>		U,R	1	Doctor of Medicine (MD)	
						2	Doctor of Osteopathy (DO)	
						3	Certified Nurse Midwife (CNM)	
						4	Other Midwife	
						5	Other	
						9	Unknown or not stated	
411-414	4	FILLER	<b>Filler</b>					
		* 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
415	2	APGAR5	<b>Five Minute APGAR Score</b>	574	U,R	00-10 99	A score of 0-10 Unknown or not stated
417	1	APGAR5R	<b>Five Minute APGAR Recode</b>	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	<b>Filler</b>				
423	1	DPLURAL	<b>Plurality Recode</b>		U,R	1 2 3 4 5	Single Twin Triplet Quadruplet Quintuplet or higher
424	1	FILLER	<b>Filler</b>				
425	1	IMP_PLUR	<b>Plurality Imputed</b>		U,R	Blank 1	Plurality is imputed Plurality is not imputed
426-435	10	FILLER	<b>Filler</b>				
436	1	SEX	<b>Sex of Infant</b>		U,R	M F	Male Female
437	1	IMP_SEX	<b>Imputed Sex</b>		U,R	Blank 1	Infant Sex not Imputed Infant Sex is Imputed
438-439	2	DLMP_MM	<b>Last Normal Menses Month</b>		U,R	01 02 03 04 05 06 07 08 09 10 11 12	January February March April May June July August September October November 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.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						99	Unknown or not stated
440-441	2	DLMP_DD	<b>Last Normal Menses Day</b>		U,R	01-31 99	As applicable to month of LMP Unknown or not stated
442-445	4	DLMP_YY	<b>Last Normal Menses Year</b>		U,R	nnnn 9999	Year of last normal menses Unknown or not stated
446-447	2	ESTGEST	<b>Obstetric/Clinical Gestation Est.</b>	573	U,R	0-98 99	0 through 98 <sup>th</sup> week of gestation Unknown or not stated
448-450	3	FILLER	<b>Filler</b>				
451-452	2	COMBGEST	<b>Gestation – Detail in Weeks</b>		U,R	17-47 99	17 <sup>th</sup> through 47 <sup>th</sup> week of gestation Unknown
453-454	2	GESTREC10	<b>Gestation Recode 10</b>		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	<b>Gestation Recode 3</b>		U,R	1 2 3	Under 37 weeks 37 weeks and over Not stated
456	1	OBGEST_FLG	<b>Clinical Estimate of Gestation Used Flag</b>		U,R	Blank 1	Clinical Estimate is not used Clinical Estimate is used
457	1	GEST_IMP	<b>Gestation Imputed Flag</b>		U,R	Blank 1	Gestation is not imputed Gestation is imputed
458-466	9	FILLER	<b>Filler</b>				
467-470	4	BRTHWGT	<b>Imputed Birthweight</b>		U,R	0227-8165 9999	Number of grams Not stated birthweight
471-472	2	BWTR14	<b>Birthweight Recode 14</b>		U,R	01 02 03	499 grams or less 500 – 749 grams 750 - 999 grams

\* 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
						04	1000 - 1249 grams
						05	1250 – 1499 grams
						06	1500 – 1999 grams
						07	2000 – 2499 grams
						08	2500 – 2999 grams
						09	3000 – 3400 grams
						10	3500 – 3999 grams
						11	4000 – 4499 grams
						12	4500 – 4999 grams
						13	5000 – 8165 grams
						14	Not Stated
473	1	BWTR4	<b>Birthweight Recode 4</b>		U,R	1	1499 grams or less
						2	1500 – 2499 grams
						3	2500 grams or more
						4	Unknown or not stated
474	1	FILLER	<b>Filler</b>				
475	1	BWTIMP	<b>Imputed Birth Weight Flag</b>		U,R	Blank	Birth Weight is not imputed
						1	Birth Weight is imputed
476-482	7	<b><u>Abnormal Conditions of the Newborn (Revised)</u></b>					
		The checkbox items below follow this structure:				Y	Yes, Complication reported
						N	No Complication reported
						U	Unknown or not stated
						Blank	Not on certificate
476	1	AB_AVEN1	<b>Assisted Ventilation</b>	628	R		
477	1	AB_AVEN6	<b>Assisted Ventilation &gt;6 hrs</b>	629	R		
478	1	AB_NICU	<b>Admission to NICU</b>	630	R		
479	1	AB_SURF	<b>Surfactant</b>	631	R		
480	1	AB_ANTI	<b>Antibiotics</b>	632	R		
481	1	AB_SEIZ	<b>Seizures</b>	633	R		
482	1	AB_BINJ	<b>Birth Injury</b>	634	R		
483-491	9	FILLER	<b>Filler</b>				
492-503	12	<b><u>Congenital Anomalies of the Newborn (Revised)</u></b>					
		The checkbox items below follow this structure:				Y	Yes, anomaly reported
						N	No, anomaly not reported
						U	Unknown
						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
492	1	CA_ANEN	<b>Anencephaly</b>	635	R		
493	1	CA_MNSB	<b>Meningomyelocele/Spina Bifida</b>	636	R		
494	1	CA_CCHD	<b>Cyanotic Congenital Heart Disease</b>	637	R		
495	1	CA_CDH	<b>Congenital Diaphragmatic Hernia</b>	638	R		
496	1	CA_OMP	<b>Omphalocele</b>	639	R		
497	1	CA_GAST	<b>Gastroschisis</b>	640	R		
498	1	CA_LIMB	<b>Limb Reduction Defect</b>	641	R		
499	1	CA_CLEFT	<b>Cleft Lip w/ or w/o Cleft Palate</b>	642	R		
500	1	CA_CLPAL	<b>Cleft Palate alone</b>	643	R		
501	1	CA_DOWN	<b>Downs Syndrome</b>	644	R	C P N U Blank	Confirmed Pending No Unknown Not on certificate
502	1	CA_DISOR	<b>Suspected Chromosomal Disorder</b>	645	R	C P N U Blank	Confirmed Pending No Unknown Not on certificate
503	1	CA_HYPO	<b>Hypospadias</b>	646	R	Y N U Blank	Yes, Anomaly reported No, Anomaly not reported Unknown Not on certificate
504-523	20	<b><u>Congenital Anomalies of the Newborn</u></b> The checkbox items indented below follow this structure: The version is all 1989 Standard unless otherwise noted.				1 2 9 Blank	Anomaly reported Anomaly not reported Anomaly not classifiable Not on certificate
504	1	UCA_ANEN	<b>Anencephalus</b>	752	U,R		
505	1	UCA_SPINA	<b>Spina Bifida / Meningocele</b>	753	U,R		
506-512	7	FILLER	<b>Filler</b>				
513	1	UCA_OMP	<b>Omphalocele / Gastroschisis</b>	761	U,R		
514-517	4	FILLER	<b>Filler</b>				
518	1	UCA_CELFTLP	<b>Cleft Lip / Palate</b>	766	U,R		
519-522	4	FILLER	<b>Filler</b>				
523	1	UCA_DOWNS	<b>Downs Syndrome</b>	771	U,R		
524-568	45	FILLER	<b>Filler</b>				
569-771	203	<b><u>Flag File for Reporting Flags</u></b>					
		* 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
			The reporting flags indented below follow this coding structure:			0	Not reporting
					1	Reporting	
569	1	F_MORIGIN	<b>Origin of Mother</b>		U,R		
570	1	F_FORIGIN	<b>Origin of Father</b>		U,R		
571	1	F_MEDUC	<b>Education of Mother</b>		R		
572	1	FILLER	<b>Filler</b>				
573	1	F_CLINEST	<b>Clinical Estimate of Gestation</b>		U,R		
574	1	F_APGAR5	<b>Five minute APGAR</b>		U,R		
575	1	F_TOBACO	<b>Tobacco use</b>		R		
576-581	6	FILLER	<b>Filler</b>				
582	1	F_RF_PDIAB	<b>Prepregnancy Diabetes</b>		R		
583	1	F_RF_GDIAB	<b>Gestational Diabetes</b>		R		
584	1	F_RF_PHYPER	<b>Prepregnancy Hypertension</b>		R		
585	1	F_RF_GHYPER	<b>Gestational Hypertension</b>		R		
586	1	F_RF_ECLAMP	<b>Eclampsia</b>		R		
587	1	F_RF_PPB	<b>Previous Preterm Birth</b>		R		
588	1	F_RF_PPO	<b>Poor Pregnancy Outcome</b>		R		
589-592	4	FILLER	<b>Filler</b>				
593	1	F_RF_CESAR	<b>Previous Cesarean</b>		R		
594	1	F_RF_NCESAR	<b>Number of Previous Cesareans</b>		R		
595-600	6	FILLER	<b>Filler</b>				
601	1	F_OB_CERVIC	<b>Cervical Cerclage</b>		R		
602	1	F_OB_TOCO	<b>Tocolysis</b>		R		
603	1	F_OB_SUCC	<b>Successful External Cephalic Version</b>		R		
604	1	F_OB_FAIL	<b>Failed External Cephalic Version</b>		R		
605	1	F_OL_RUPTURE	<b>Premature Rupture of Membranes</b>		R		
606	1	F_OL_PRECIP	<b>Precipitous Labor</b>		R		
607	1	F_OL_PROLONG	<b>Prolonged Labor</b>		R		
608	1	F_LD_INDUCT	<b>Induction of Labor</b>		R		
609	1	F_LD_AUGMENT	<b>Augmentation of Labor</b>		R		
610	1	F_LD_NVRTX	<b>Non-Vertex Presentation</b>		R		
611	1	F_LD_STEROIDS	<b>Steroids</b>		R		
612	1	F_LD_ANTIBIO	<b>Antibiotics</b>		R		
613	1	F_LD_CHORIO	<b>Chorioamnionitis</b>		R		
614	1	F_LD_MECON	<b>Meconium Staining</b>		R		
615	1	F_LD_FINTOL	<b>Fetal Intolerance</b>		R		
616	1	F_LD_ANESTH	<b>Anesthesia</b>		R		
617	1	F_MD_ATTFOR	<b>Attempted Forceps</b>		R		
618	1	F_MD_ATTVAC	<b>Attempted Vacuum</b>		R		
619	1	F_MD_PRESENT	<b>Fetal Presentation</b>		R		
620	1	F_MD_ROUTE	<b>Final Route and Method of Delivery</b>		R		
621	1	F_MD_TRIAL	<b>Trial of Labor Attempted</b>		R		
622-627	6	FILLER	<b>Filler</b>				
628	1	F_AB_VENT	<b>Assisted Ventilation</b>		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
629	1	F_AB_VENT6	<b>Assisted Ventilation &gt;6 hrs</b>		R		
630	1	F_AB_NICU	<b>Admission to NICU</b>		R		
631	1	F_AB_SURFAC	<b>Surfactant</b>		R		
632	1	F_AB_ANTIBIO	<b>Antibiotics</b>		R		
633	1	F_AB_SEIZ	<b>Seizures</b>		R		
634	1	F_AB_INJ	<b>Birth Injury</b>		R		
635	1	F_CA_ANEN	<b>Anencephaly</b>		R		
636	1	F_CA_MENIN	<b>Meningomyelocele/Spina Bifida</b>		R		
637	1	F_CA_HEART	<b>Cyanotic Congenital Heart Disease</b>		R		
638	1	F_CA_HERNIA	<b>Congenital Diaphragmatic Hernia</b>		R		
639	1	F_CA_OMPHA	<b>Omphalocele</b>		R		
640	1	F_CA_GASTRO	<b>Gastroschisis</b>		R		
641	1	F_CA_LIMB	<b>Limb Reduction Defect</b>		R		
642	1	F_CA_CLEFTLP	<b>Cleft Lip w/ or w/o Cleft Palate</b>		R		
643	1	F_CA_CLEFT	<b>Cleft Palate Alone</b>		R		
644	1	F_CA_DOWNS	<b>Downs Syndrome</b>		R		
645	1	F_CA_CHROM	<b>Suspected Chromosomal Disorder</b>		R		
646	1	F_CA_HYPOS	<b>Hypospadias</b>		R		
647	1	F_MED	<b>Mother's Education</b>		U		
648	1	F_WTGAIN	<b>Weight Gain</b>		U,R		
649-666	18	FILLER	<b>Filler</b>				
667	1	F_TOBAC	<b>Tobacco Use</b>		U		
668	1	F_MPCB	<b>Month Prenatal Care Began</b>		R		
669	1	F_MPCB_U	<b>Month Prenatal Care Began</b>		U		
670-683	14	FILLER	<b>Filler</b>				
684	1	F_URF_DIABETES	<b>Diabetes</b>		U		
685-687	3	FILLER	<b>Filler</b>				
688	1	F_URF_CHYPER	<b>Chronic Hypertension</b>		U		
689	1	F_URF_PHYPER	<b>Pregnancy Associated Hypertension</b>		U		
690	1	F_URF_ECLAMP	<b>Eclampsia</b>		U		
691-702	12	FILLER	<b>Filler</b>				
703	1	F_UOB_INDUCT	<b>Induction of Labor</b>		U		
704	1	FILLER	<b>Filler</b>				
705	1	F_UOB_TOCOL	<b>Tocolysis</b>		U		
706-711	6	FILLER	<b>Filler</b>				
712	1	F_ULD_MECONIUM	<b>Meconium</b>		U		
713-717	5	FILLER	<b>Filler</b>				
718	1	F_ULD_PRECIP	<b>Precipitous Labor</b>		U		
719-720	2	FILLER	<b>Filler</b>				
721	1	F_ULD_BREECH	<b>Breech</b>		U		
722-729	8	FILLER	<b>Filler</b>				
730	1	F_U_VAGINAL	<b>Vaginal</b>		U		
731	1	F_U_VBAC	<b>Vaginal after C-Section</b>		U		
732	1	F_U_PRIMAC	<b>Primary C-Section</b>		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	<b>Repeat C-Section</b>		U		
734	1	F_U_FORCEP	<b>Forceps</b>		U		
735	1	F_U_VACUUM	<b>Vacuum</b>		U		
736-751	16	FILLER	<b>Filler</b>				
752	1	F_UCA_ANEN	<b>Anencephalus</b>		U		
753	1	F_UCA_SPINA	<b>Spina Bifida / Meningocele</b>		U		
754-760	7	FILLER	<b>Filler</b>				
761	1	F_UCA_OMPHALO	<b>Omphalocele / Gastroschisis</b>		U		
762-765	4	FILLER	<b>Filler</b>				
766	1	F_UCA_CLEFTLP	<b>Cleft Lip / Palate</b>		U		
767-770	4	FILLER	<b>Filler</b>				
771	1	F_UCA_DOWNS	<b>Downs Syndrome</b>		U		
772-867	146	FILLER	<b>Filler</b>				
868	1	FLGND	Flag indicating records in both numerator and denominator file			1 Blank	Record in both files Record not in numerator file

**Here ends the Denominator file. Documentation of the Mortality Section of the Numerator (Linked) file begins below.**

869-871	3	FILLER	<b>Filler</b>				
872-874	3	AGED	<b>Age at Death in Days</b>			000-365	Number of days
875	1	AGER5	<b>Infant age recode 5</b>			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	<b>Infant age recode 22</b>			Blank 01 02 03 04 05 06 07 08	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

\* 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
						09	7-13 days
						10	14 – 20 days
						11	21 – 27 days
						12	1 month (includes not stated months)
						13	2 months
						14	3 months
						15	4 months
						16	5 months
						17	6 months
						18	7 months
						19	8 months
						20	9 months
						21	10 months
						22	11 months
878	1	MANNER	<b>Manner of Death</b>			1	Accident
						2	Suicide
						3	Homicide
						4	Pending investigation
						5	Could not determine
						6	Self-inflicted
						7	Natural
						Blank	Not specified
879	1	DISPO	<b>Method of Disposition</b>			B	Burial
						C	Cremation
						O	Other
						U	Unknown
880	1	AUTOPSY	<b>Autopsy</b>			Y	Yes
						N	No
						U	Unknown
881	1	FILLER	<b>Filler</b>				
882	1	PLACE	<b>Place of injury for causes W00-Y34, except Y06.- and Y07.-</b>			0	Home
						1	Residential institution
						2	School, other institution and public administrative area
						3	Sports and athletics area
						4	Street and highway
						5	Trade and service area
						6	Industrial and construction area
						7	Farm
						8	Other Specified Places

\* 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 Blank	Unspecified place Cause other than W00-Y34, except Y06.- and Y07.-
883	1	FILLER	<b>Filler</b>				
884-887	4	UC0D	<b>ICD Code (10<sup>th</sup> Revision)</b> See the <u>International Classification of Diseases, 1992</u> Revision, Volume I.				
888	1	FILLER	<b>Filler</b>				
889-891	3	UCODR130	<b>130 Infant Cause Recode</b>			001-158	Code Range
892	1	FILLER	<b>Filler</b>				
893-900	8	RECWT	<b>Record Weight</b> (no weights computed for possessions file) 1.XXXXXXX				
901-902	2	FILLER	<b>Filler</b>				
903-904	2	EANUM	<b>Number of Entity-Axis Conditions</b>			00-20	Code range
905-1044	140	ENTITY	<b>Entity-Axis Conditions</b> Space has been provided for a maximum of 20 conditions. Each condition takes 7 positions in the record. The 7 <sup>th</sup> position will be blank. Records that do not have 20 conditions are blank in the unused area.				
			Position 1:	Part/line number on certificate			
			1	... Part I, line 1 (a)			
			2	... Part I, line 2 (b)			
			3	... Part I, line 3 (c)			
			4	... Part I, line 4 (d)			
			5	... Part I, line 5 (e)			
			6	... Part II			
			Position 2:	Sequence of condition within part/line			
			1-7	... Code range			
			Position 3 – 6:	Condition code			
				See Table 1 for a complete list of codes			
905-911	7		1 <sup>st</sup> Condition				
912-918	7		2 <sup>nd</sup> 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
919-925	7		3 <sup>rd</sup> Condition				
926-932	7		4 <sup>th</sup> Condition				
933-939	7		5 <sup>th</sup> Condition				
940-946	7		6 <sup>th</sup> Condition				
947-953	7		7 <sup>th</sup> Condition				
954-960	7		8 <sup>th</sup> Condition				
961-967	7		9 <sup>th</sup> Condition				
968-974	7		10 <sup>th</sup> Condition				
975-981	7		11 <sup>th</sup> Condition				
982-988	7		12 <sup>th</sup> Condition				
989-995	7		13 <sup>th</sup> Condition				
996-1002	7		14 <sup>th</sup> Condition				
1003-1009	7		15 <sup>th</sup> Condition				
1010-1016	7		16 <sup>th</sup> Condition				
1017-1023	7		17 <sup>th</sup> Condition				
1024-1030	7		18 <sup>th</sup> Condition				
1031-1037	7		19 <sup>th</sup> Condition				
1038-1044	7		20 <sup>th</sup> Condition				
1045-1046	2	FILLER	<b>Filler</b>				
1047-1048	2	RANUM	<b>Number of Record-Axis Conditions</b>			00-20	Code range
1049-1148	100	RECORD	<b>Record-Axis Conditions</b> Space has been provided for a maximum of 20 conditions. Each condition takes 5 positions in the record. The 5 <sup>th</sup> 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 <sup>st</sup> Condition				
1054-1058	5		2 <sup>nd</sup> Condition				
1059-1063	5		3 <sup>rd</sup> Condition				
1064-1068	5		4 <sup>th</sup> Condition				
1069-1073	5		5 <sup>th</sup> Condition				
1074-1078	5		6 <sup>th</sup> Condition				
1079-1083	5		7 <sup>th</sup> Condition				
1084-1088	5		8 <sup>th</sup> Condition				
1089-1093	5		9 <sup>th</sup> Condition				
1094-1098	5		10 <sup>th</sup> Condition				
1099-1103	5		11 <sup>th</sup> Condition				
1104-1108	5		12 <sup>th</sup> 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
	1109-1113	5	13 <sup>th</sup> Condition				
	1114-1118	5	14 <sup>th</sup> Condition				
	1119-1123	5	15 <sup>th</sup> Condition				
	1124-1128	5	16 <sup>th</sup> Condition				
	1129-1133	5	17 <sup>th</sup> Condition				
	1134-1138	5	18 <sup>th</sup> Condition				
	1139-1143	5	19 <sup>th</sup> Condition				
	1144-1148	5	20 <sup>th</sup> Condition				
1149-1150	2	FILLER	<b>Filler</b>				
1151	1	D_RESTATUS	<b>Death Resident Status</b>				
			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.

\* 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 Virgin Islands to a resident of any other place.
			Guam Occurrence			1	RESIDENTS Occurred in Guam to a resident of Guam or to a resident of the U.S.
						3	INTERTERRITORY NONRESIDENTS Territory of occurrence and residence are different, but both are a Territory.
						4	FOREIGN RESIDENTS Occurred in Guam to a resident of any place other than Guam or the U.S.
1152-1153	2	STOCCFIPD	<b>State of Occurrence (FIPS) of Death</b> (This item is available in the territory file only, geographic codes are not available in the U.S.file)			PR VI GU	Puerto Rico Virgin Islands Guam
1154-1156	3	CNTOCFIPD	<b>County of Occurrence (FIPS) of Death</b> 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	<b>Filler</b>				
1160-1161	2	STRESFIPD	<b>State of Residence (FIPS)</b> (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)				
			Territories			PR VI GU	Puerto Rico Virgin Islands Guam
			Puerto Rico Occurrence			PR US,ZZ	Puerto Rico Foreign residents
			Virgin Islands Occurrence			VI US, ZZ	Virgin Islands Foreign residents
			Guam Occurrence			GU US ZZ	Guam U.S. resident. Also considered a resident of Guam. Foreign residents
1162-1163	2	FILLER	<b>Filler</b>				
1164-1165	2	DRCNTY	<b>State/Country of Residence of Death Recode</b> (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

\* 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
1166-1167	3	CNTYRFPD	<b>County of Residence (FIPS) of Death</b> Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State and identify each county. (Note: To uniquely identify a county, both the state and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document.  (This item is available in the territory file only, geographic codes are not available in the U.S.file)			000 001-nnn 999	Foreign residents Code range County of less than 250,000
1169-1181	13	FILLER	<b>Filler</b>				
1182	1	CNTRSPPD	<b>Population Size of County of Residence of Death</b> 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 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 of less than 250,000 Foreign residents
1183-1185	3	FILLER	<b>Filler</b>				
1186	1	HOSPD	<b>Place of Death and Decedent's Status</b>			1 2 3 4 5 6 7 9	Hospital, clinic or Medical Center – Inpatient Hospital, clinic or Medical Center – Outpatient or admitted to Emergency Room Hospital, clinic or Medical Center – Dead on Arrival Decedent's home Hospice facility Nursing home/long term care Other Place of death unknown
1187	1	WEEKDAYD	<b>Day of Week of Death</b>			1 2 3	Sunday Monday 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	<b>Death Year</b>			2007	2007
1192-1257	66	FILLER	<b>Filler</b>				
1258-1259	2	DOD_MM	<b>Month of Death</b>			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.







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

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

130	S Limited		
Recode	T Sex Age Cause Title and ICD-10 Codes Included		
108			All other infections specific to the perinatal period (P35,P37,P39)
109	1		Hemorrhagic and hematological disorders of newborn (P50-P61)
110			Neonatal hemorrhage (P50-P52,P54)
111			Hemorrhagic disease of newborn (P53)
112			Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice (P55-P59)
113			Hematological disorders (P60-P61)
114			Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0-P70.2)
115			Necrotizing enterocolitis of newborn (P77)
116			Hydrops fetalis not due to hemolytic disease (P83.2)
117			Other perinatal conditions (P29,P70.3-P70.9,P71-P76,P78-P81,P83.0-P83.1,P83.3-P83.9,P90-P96)
118	1		Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
119			Anencephaly and similar malformations (Q00)
120			Congenital hydrocephalus (Q03)
121			Spina bifida (Q05)
122			Other congenital malformations of nervous system (Q01-Q02,Q04,Q06-Q07)
123			Congenital malformations of heart (Q20-Q24)
124			Other congenital malformations of circulatory system (Q25-Q28)
125			Congenital malformations of respiratory system (Q30-Q34)
126			Congenital malformations of digestive system (Q35-Q45)
127			Congenital malformations of genitourinary system (Q50-Q64)
128			Congenital malformations and deformations of musculoskeletal system, limbs and integument (Q65-Q85)
129			Down's syndrome (Q90)
130			Edward's syndrome (Q91.0-Q91.3)
131			Patau's syndrome (Q91.4-Q91.7)
132			Other congenital malformations and deformations (Q10-Q18,Q86-Q89)
133			Other chromosomal abnormalities, not elsewhere classified (Q92-Q99)
134	1		Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)
135			Sudden infant death syndrome (R95)
136			Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R53,R55-R94,R96-R99)
137			All other diseases (Residual) (F01-F99,H00-H57,L00-M99)
138	1		External causes of mortality (*U01,V01-Y84)
139	1		Accidents (unintentional injuries) (V01-X59)
140	1		Transport accidents (V01-V99)
141			Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)
142			Other and unspecified transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9,V90-V99)
143			Falls (W00-W19)
144			Accidental discharge of firearms (W32-W34)
145			Accidental drowning and submersion (W65-W74)
146			Accidental suffocation and strangulation in bed (W75)
147			Other accidental suffocation and strangulation (W76-W77,W81-W84)
148			Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78-W80)
149			Accidents caused by exposure to smoke, fire and flames (X00-X09)
150			Accidental poisoning and exposure to noxious substances (X40-X49)
151			Other and unspecified accidents (W20-W31,W35-W64,W85-W99,X10-X39,X50-X59)
152	1		Assault (homicide) (*U01,X85-Y09)
153			Assault (homicide) by hanging, strangulation and suffocation (X91)
154			Assault (homicide) by discharge of firearms (*U01.4,X93-X95)
155			Neglect, abandonment and other maltreatment syndromes (Y06-Y07)
156			Assault (homicide) by other and unspecified means (*U01.0-*U01.3,*U01.5-*U01.9,X85-X90,X92,X96-X99,Y00-Y05,Y08-Y09)
157			Complications of medical and surgical care (Y40-Y84)



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, 2007 Period Data.  
 (Residence of birth is of the mother)

State	Live births		Infant deaths			
	Occurrence	Residence	Unweighted		Weighted 1/	
			Occurrence	Residence	Occurrence	Residence
United States /2	4324008	4316233	28715	28687	29182	29153
Alabama	63995	64804	648	644	648	644
Alaska	10955	11052	68	70	71	73
Arizona	103797	102981	691	689	709	707
Arkansas	40168	41378	309	319	313	323
California	567527	566414	2848	2836	2959	2947
Colorado	71225	70809	446	431	449	434
Connecticut	42265	41660	276	279	276	279
Delaware	12527	12170	91	93	91	93
Dist of Columbia	14824	8864	174	114	175	115
Florida	239389	239165	1700	1693	1701	1694
Georgia	152068	151137	1202	1202	1210	1210
Hawaii	19151	19134	120	124	123	127
Idaho	24436	25019	151	170	152	171
Illinois	177450	180836	1143	1212	1160	1229
Indiana	90572	89864	671	677	675	681
Iowa	40988	40886	193	222	195	224
Kansas	42938	42004	330	336	330	336
Kentucky	57424	59368	352	394	355	397
Louisiana	66336	66301	570	569	610	608
Maine	13974	14120	92	90	92	90
Maryland	74940	78095	578	625	579	626
Massachusetts	78723	77967	388	382	391	385
Michigan	124124	125261	979	990	983	994
Minnesota	73595	73735	410	409	411	410
Mississippi	45509	46491	436	462	438	464
Missouri	82823	81930	673	604	677	608
Montana	12400	12439	74	78	74	78
Nebraska	27117	26934	191	182	191	182
Nevada	40766	41181	244	246	257	259
New Hampshire	13937	14168	67	77	67	77
New Jersey	112883	116063	564	589	569	594
New Mexico	29905	30616	166	171	184	188
New York	126468	130125	729	769	748	787
New York City	128961	123326	671	621	671	622
North Carolina	132188	131037	1111	1112	1116	1117
North Dakota	10152	8840	72	67	72	67
Ohio	151342	150879	1185	1154	1204	1172
Oklahoma	54154	55065	442	452	452	463
Oregon	49873	49378	304	281	305	282
Pennsylvania	149999	150713	1154	1129	1160	1135
Rhode Island	13192	12376	99	89	100	90
South Carolina	60204	62875	508	534	509	535
South Dakota	12815	12261	95	77	95	77
Tennessee	92049	86711	789	717	792	720
Texas	414170	407625	2445	2441	2571	2567
Utah	56319	55130	300	275	302	277
Vermont	6210	6513	34	33	34	33
Virginia	107262	108884	823	840	825	842
Washington	88944	88978	433	433	434	434
West Virginia	21917	21994	168	159	169	160
Wisconsin	71741	72784	466	467	466	467
Wyoming	7317	7893	42	58	42	58
Foreign Residents	-	7775	-	28	-	28
Puerto Rico	46727	46642	395	393	395	393
Virgin Islands	1780	1697	9	10	9	10
Guam	3491	3480	36	36	36	36

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, 2007 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.....	4,316,233	7,446	12,063	12,818	14,936	17,986	69,067	221,429	3,959,945	543
Infant deaths.....	29,153	6,398	5,479	1,975	1,083	782	1,853	2,394	9,081	109
Infant mortality rate....	6.75	859.25	454.20	154.08	72.51	43.48	26.83	10.81	2.29	200.74
Male										
Live births.....	2,208,071	3,747	6,083	6,627	7,583	9,026	33,625	101,772	2,039,320	288
Infant deaths.....	16,274	3,275	3,191	1,208	648	445	977	1,233	5,223	72
Infant mortality rate....	7.37	874.03	524.58	182.28	85.45	49.30	29.06	12.12	2.56	250.00
Female										
Live births.....	2,108,162	3,699	5,980	6,191	7,353	8,960	35,442	119,657	1,920,625	255
Infant deaths.....	12,880	3,123	2,288	766	435	338	875	1,160	3,857	37
Infant mortality rate....	6.11	844.28	382.61	123.73	59.16	37.72	24.69	9.69	2.01	145.10
White										
Both sexes										
Live births.....	3,336,626	4,194	6,939	7,968	9,448	11,772	46,845	152,283	3,096,785	392
Infant deaths.....	18,749	3,585	3,221	1,260	709	501	1,312	1,678	6,429	54
Infant mortality rate....	5.62	854.79	464.19	158.13	75.04	42.56	28.01	11.02	2.08	137.76
Male										
Live births.....	1,708,315	2,104	3,527	4,176	4,871	6,066	23,031	70,679	1,593,658	203
Infant deaths.....	10,506	1,837	1,861	782	427	282	699	865	3,721	34
Infant mortality rate....	6.15	873.10	527.64	187.26	87.66	46.49	30.35	12.24	2.33	167.49
Female										
Live births.....	1,628,311	2,090	3,412	3,792	4,577	5,706	23,814	81,604	1,503,127	189
Infant deaths.....	8,242	1,749	1,360	478	281	219	613	813	2,708	20
Infant mortality rate....	5.06	836.84	398.59	126.05	61.39	38.38	25.74	9.96	1.80	105.82
Black										
Both sexes										
Live births.....	675,676	2,872	4,549	4,224	4,619	5,080	17,703	52,869	583,639	121
Infant deaths.....	8,732	2,479	1,965	620	313	213	439	588	2,067	48
Infant mortality rate....	12.92	863.16	431.96	146.78	67.76	41.93	24.80	11.12	3.54	396.69
Male										
Live births.....	343,279	1,441	2,275	2,125	2,268	2,398	8,320	23,537	300,842	73
Infant deaths.....	4,830	1,253	1,172	366	189	119	229	304	1,164	35
Infant mortality rate....	14.07	869.54	515.16	172.24	83.33	49.62	27.52	12.92	3.87	479.45
Female										
Live births.....	332,397	1,431	2,274	2,099	2,351	2,682	9,383	29,332	282,797	48
Infant deaths.....	3,902	1,226	793	254	125	94	210	284	903	14
Infant mortality rate....	11.74	856.74	348.72	121.01	53.17	35.05	22.38	9.68	3.19	*

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child: United States, 2007 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.....	49,443	71	115	124	138	189	710	2,359	45,729	8
Infant deaths.....	456	56	64	16	20	18	28	33	220	1
Infant mortality rate....	9.22	788.73	556.52	*	144.93	*	39.44	13.99	4.81	*
Male										
Live births.....	25,177	36	50	73	70	89	370	1,082	23,404	3
Infant deaths.....	255	31	32	8	9	13	10	19	131	1
Infant mortality rate....	10.13	861.11	640.00	*	*	*	*	*	5.60	*
Female										
Live births.....	24,266	35	65	51	68	100	340	1,277	22,325	5
Infant deaths.....	201	24	33	8	10	4	18	15	89	0
Infant mortality rate....	8.28	685.71	507.69	*	*	*	*	*	3.99	*
Asian or Pacific Islander										
Both sexes										
Live births.....	254,488	309	460	502	731	945	3,809	13,918	233,792	22
Infant deaths.....	1,216	278	228	78	42	51	74	95	365	6
Infant mortality rate....	4.78	899.68	495.65	155.38	57.46	53.97	19.43	6.83	1.56	*
Male										
Live births.....	131,300	166	231	253	374	473	1,904	6,474	121,416	9
Infant deaths.....	682	155	126	52	22	31	40	46	208	3
Infant mortality rate....	5.19	933.73	545.45	205.53	58.82	65.54	21.01	7.11	1.71	*
Female										
Live births.....	123,188	143	229	249	357	472	1,905	7,444	112,376	13
Infant deaths.....	534	124	102	26	19	20	34	49	157	3
Infant mortality rate....	4.33	867.13	445.41	104.42	*	42.37	17.85	6.58	1.40	*

\* 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, 2007 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 .....	4,316,233	33,391	54,661	68,914	389,636	2,346,479	816,262	357,809	242,235	6,846
Infant deaths .....	29,153	13,286	2,419	1,111	2,890	6,194	1,611	744	635	264
Infant mortality rate .....	6.75	397.89	44.25	16.12	7.42	2.64	1.97	2.08	2.62	38.56
Less than 2,500 grams										
Live births .....	355,745	32,067	41,117	45,109	119,180	93,943	11,760	5,422	6,343	804
Infant deaths .....	19,963	13,275	2,294	921	1,634	1,293	208	115	119	104
Infant mortality rate .....	56.12	413.98	55.79	20.42	13.71	13.76	17.69	21.21	18.76	129.35
Less than 500 grams										
Live births .....	7,446	7,125	208	19	18	13	2	3	-	58
Infant deaths .....	6,398	6,181	137	15	12	7	2	3	-	41
Infant mortality rate .....	859.25	867.51	658.65	*	*	*	*	*	-	706.90
500-749 grams										
Live births .....	12,063	10,514	1,351	54	44	37	8	4	11	40
Infant deaths .....	5,479	5,054	353	16	13	11	5	3	2	20
Infant mortality rate .....	454.20	480.69	261.29	*	*	*	*	*	*	500.00
750-999 grams										
Live births .....	12,818	7,947	4,216	294	117	149	26	13	20	36
Infant deaths .....	1,975	1,449	429	45	17	13	5	-	2	14
Infant mortality rate .....	154.08	182.33	101.76	153.06	*	*	*	-	*	*
1,000-1,249 grams										
Live births .....	14,936	3,539	8,265	1,602	779	433	127	68	94	29
Infant deaths .....	1,083	367	490	100	83	25	7	2	7	2
Infant mortality rate .....	72.51	103.70	59.29	62.42	106.55	57.74	*	*	*	*
1,250-1,499 grams										
Live births .....	17,986	1,022	9,511	3,756	2,382	815	211	96	150	43
Infant deaths .....	782	100	355	123	122	54	6	9	11	2
Infant mortality rate .....	43.48	97.85	37.33	32.75	51.22	66.26	*	*	*	*
1,500-1,999 grams										
Live births .....	69,067	1,074	12,979	20,077	24,190	8,164	1,031	573	838	141
Infant deaths .....	1,853	90	398	369	544	335	46	22	36	12
Infant mortality rate .....	26.83	83.80	30.66	18.38	22.49	41.03	44.62	38.39	42.96	*
2,000-2,499 grams										
Live births .....	221,429	846	4,587	19,307	91,650	84,332	10,355	4,665	5,230	457
Infant deaths .....	2,394	33	133	252	843	847	137	75	61	12
Infant mortality rate .....	10.81	39.01	28.99	13.05	9.20	10.04	13.23	16.08	11.66	*
2,500-2,999 grams										
Live births .....	797,926	1,324	4,682	10,022	131,545	482,797	94,729	37,454	33,996	1,377
Infant deaths .....	3,305	11	68	100	738	1,725	340	153	158	11
Infant mortality rate .....	4.14	*	14.52	9.98	5.61	3.57	3.59	4.09	4.65	*
3,000-3,499 grams										
Live births .....	1,687,045	-	5,878	8,890	95,349	1,012,837	330,077	134,750	97,026	2,238
Infant deaths .....	3,556	-	37	59	369	2,045	570	247	210	20
Infant mortality rate .....	2.11	-	6.29	6.64	3.87	2.02	1.73	1.83	2.16	8.94

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, 2007 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	1,144,002	-	2,984	3,979	35,160	603,726	287,655	130,810	78,267	1,421
Infant deaths	1,729	-	20	16	111	892	380	177	119	13
Infant mortality rate	1.51	-	6.70	*	3.16	1.48	1.32	1.35	1.52	*
4,000-4,499 grams										
Live births	286,218	-	-	791	7,146	132,937	80,123	42,180	22,657	384
Infant deaths	392	-	-	13	32	193	96	40	18	1
Infant mortality rate	1.37	-	-	*	4.48	1.45	1.20	0.95	*	*
4,500-4,999 grams										
Live births	40,218	-	-	109	1,067	17,959	10,914	6,556	3,550	63
Infant deaths	75	-	-	-	5	36	14	8	9	2
Infant mortality rate	1.86	-	-	-	*	2.00	*	*	*	*
5,000 grams or more										
Live births	4,536	-	-	14	189	2,280	1,004	637	396	16
Infant deaths	24	-	-	1	1	10	3	4	1	3
Infant mortality rate	5.29	-	-	*	*	*	*	*	*	*
Not stated										
Live births	543	-	-	-	-	-	-	-	-	543
Infant deaths	109	-	-	-	-	-	-	-	-	109
Infant mortality rate	200.74	-	-	-	-	-	-	-	-	200.74
White										
Total										
Live births	3,336,626	19,621	36,734	48,356	286,001	1,818,792	644,754	285,852	191,464	5,052
Infant deaths	18,749	7,748	1,558	768	1,981	4,388	1,160	535	451	161
Infant mortality rate	5.62	394.88	42.41	15.88	6.93	2.41	1.80	1.87	2.36	31.87
Less than 2,500 grams										
Live births	239,449	18,807	27,198	31,516	82,918	62,736	7,836	3,623	4,296	519
Infant deaths	12,266	7,740	1,467	631	1,126	932	144	83	76	66
Infant mortality rate	51.23	411.55	53.94	20.02	13.58	14.86	18.38	22.91	17.69	127.17
Less than 500 grams										
Live births	4,194	3,999	121	14	12	5	2	3	-	38
Infant deaths	3,585	3,462	74	11	7	1	2	3	-	26
Infant mortality rate	854.79	865.72	611.57	*	*	*	*	*	-	684.21
500-749 grams										
Live births	6,939	5,984	825	33	29	25	4	3	9	27
Infant deaths	3,221	2,970	198	12	8	10	2	3	2	15
Infant mortality rate	464.19	496.32	240.00	*	*	*	*	*	*	*
750-999 grams										
Live births	7,968	4,826	2,687	202	83	112	16	12	12	18
Infant deaths	1,260	914	279	34	12	10	4	-	-	7
Infant mortality rate	158.13	189.39	103.83	168.32	*	*	*	-	-	*
1,000-1,249 grams										
Live births	9,448	2,216	5,196	1,030	519	280	79	45	61	22
Infant deaths	709	248	315	60	53	19	5	1	5	2
Infant mortality rate	75.04	111.91	60.62	58.25	102.12	*	*	*	*	*

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, 2007 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	11,772	625	6,263	2,446	1,565	537	151	59	98	28
Infant deaths	501	66	228	74	78	40	3	5	6	1
Infant mortality rate	42.56	105.60	36.40	30.25	49.84	74.49	*	*	*	*
1,500-1,999 grams										
Live births	46,845	630	9,034	13,766	16,241	5,431	714	371	572	86
Infant deaths	1,312	61	278	254	391	246	35	12	27	9
Infant mortality rate	28.01	96.83	30.77	18.45	24.07	45.30	49.02	*	47.20	*
2,000-2,499 grams										
Live births	152,283	527	3,072	14,025	64,469	56,346	6,870	3,130	3,544	300
Infant deaths	1,678	19	96	186	577	605	93	58	36	6
Infant mortality rate	11.02	*	31.25	13.26	8.95	10.74	13.54	18.53	10.16	*
2,500-2,999 grams										
Live births	563,026	814	3,073	6,820	96,236	339,336	65,529	26,292	23,972	954
Infant deaths	2,225	8	50	75	501	1,155	223	101	103	9
Infant mortality rate	3.95	*	16.27	11.00	5.21	3.40	3.40	3.84	4.30	*
3,000-3,499 grams										
Live births	1,300,414	-	4,168	6,274	72,569	782,936	253,274	104,279	75,270	1,644
Infant deaths	2,520	-	27	43	246	1,436	415	179	159	15
Infant mortality rate	1.94	-	6.48	6.85	3.39	1.83	1.64	1.72	2.11	*
3,500-3,999 grams										
Live births	948,391	-	2,295	3,029	27,542	502,144	238,458	108,849	64,927	1,147
Infant deaths	1,305	-	13	8	82	683	284	132	91	11
Infant mortality rate	1.38	-	*	*	2.98	1.36	1.19	1.21	1.40	*
4,000-4,499 grams										
Live births	246,400	-	-	618	5,742	114,347	69,302	36,476	19,588	327
Infant deaths	304	-	-	10	22	147	79	31	13	1
Infant mortality rate	1.23	-	-	*	3.83	1.29	1.14	0.85	*	*
4,500-4,999 grams										
Live births	34,786	-	-	89	855	15,430	9,506	5,772	3,079	55
Infant deaths	58	-	-	-	2	27	13	5	8	2
Infant mortality rate	1.67	-	-	-	*	1.75	*	*	*	*
5,000 grams or more										
Live births	3,768	-	-	10	139	1,863	849	561	332	14
Infant deaths	16	-	-	1	1	8	1	2	1	2
Infant mortality rate	*	-	-	*	*	*	*	*	*	*
Not stated										
Live births	392	-	-	-	-	-	-	-	-	392
Infant deaths	54	-	-	-	-	-	-	-	-	54
Infant mortality rate	137.76	-	-	-	-	-	-	-	-	137.76
Black										
Total										
Live births	675,676	12,152	14,674	16,276	78,168	357,019	112,551	48,198	35,417	1,221
Infant deaths	8,732	4,848	724	267	725	1,414	356	160	151	88
Infant mortality rate	12.92	398.95	49.34	16.40	9.27	3.96	3.16	3.32	4.26	72.07

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, 2007 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 .....	91,916	11,714	11,518	10,795	27,945	23,620	3,056	1,403	1,648	217
Infant deaths .....	6,617	4,845	695	227	407	295	52	25	38	31
Infant mortality rate .....	71.99	413.61	60.34	21.03	14.56	12.49	17.02	17.82	23.06	142.86
Less than 500 grams										
Live births .....	2,872	2,760	78	4	5	8	-	-	-	17
Infant deaths .....	2,479	2,395	57	4	4	6	-	-	-	13
Infant mortality rate .....	863.16	867.75	730.77	*	*	*	-	-	-	*
500-749 grams										
Live births .....	4,549	4,032	457	18	13	10	4	1	2	12
Infant deaths .....	1,965	1,816	134	4	3	1	3	-	-	4
Infant mortality rate .....	431.96	450.40	293.22	*	*	*	*	-	-	*
750-999 grams										
Live births .....	4,224	2,756	1,309	72	31	27	7	1	7	14
Infant deaths .....	620	465	129	11	4	3	1	-	2	5
Infant mortality rate .....	146.78	168.72	98.55	*	*	*	*	-	*	*
1,000-1,249 grams										
Live births .....	4,619	1,162	2,563	458	214	125	40	23	30	4
Infant deaths .....	313	106	143	31	23	5	2	1	2	-
Infant mortality rate .....	67.76	91.22	55.79	67.69	107.48	*	*	*	*	-
1,250-1,499 grams										
Live births .....	5,080	340	2,666	1,071	640	222	48	33	49	11
Infant deaths .....	213	29	100	34	29	9	2	3	5	1
Infant mortality rate .....	41.93	85.29	37.51	31.75	45.31	*	*	*	*	*
1,500-1,999 grams										
Live births .....	17,703	392	3,161	5,077	6,247	2,149	249	164	225	39
Infant deaths .....	439	27	102	95	121	68	10	7	7	2
Infant mortality rate .....	24.80	68.88	32.27	18.71	19.37	31.64	*	*	*	*
2,000-2,499 grams										
Live births .....	52,869	272	1,284	4,095	20,795	21,079	2,708	1,181	1,335	120
Infant deaths .....	588	8	29	49	222	203	34	14	22	6
Infant mortality rate .....	11.12	*	22.59	11.97	10.68	9.63	12.56	*	16.48	*
2,500-2,999 grams										
Live births .....	167,917	438	1,312	2,575	26,478	100,869	20,415	8,026	7,495	309
Infant deaths .....	882	3	15	21	193	459	99	40	50	2
Infant mortality rate .....	5.25	*	*	8.16	7.29	4.55	4.85	4.98	6.67	*
3,000-3,499 grams										
Live births .....	260,166	-	1,318	2,054	17,029	153,141	50,495	20,526	15,231	372
Infant deaths .....	798	-	7	11	96	460	127	52	39	5
Infant mortality rate .....	3.07	-	*	*	5.64	3.00	2.52	2.53	2.56	*
3,500-3,999 grams										
Live births .....	126,195	-	526	710	5,532	65,420	30,969	14,072	8,804	162
Infant deaths .....	308	-	7	6	20	157	67	30	20	-
Infant mortality rate .....	2.44	-	*	*	3.62	2.40	2.16	2.13	2.27	-

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, 2007 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 .....	25,402	-	-	125	1,005	12,025	6,638	3,628	1,948	33
Infant deaths .....	60	-	-	1	6	34	9	7	3	-
Infant mortality rate .....	2.36	-	-	*	*	2.83	*	*	*	-
4,500-4,999 grams										
Live births .....	3,475	-	-	15	139	1,669	886	503	258	5
Infant deaths .....	13	-	-	-	3	7	1	2	-	-
Infant mortality rate .....	*	-	-	-	*	*	*	*	-	-
5,000 grams or more										
Live births .....	484	-	-	2	40	275	92	40	33	2
Infant deaths .....	5	-	-	-	-	2	-	2	-	1
Infant mortality rate .....	*	-	-	-	-	*	-	*	-	*
Not stated										
Live births .....	121	-	-	-	-	-	-	-	-	121
Infant deaths .....	48	-	-	-	-	-	-	-	-	48
Infant mortality rate .....	396.69	-	-	-	-	-	-	-	-	396.69
American Indian <sup>1</sup>										
Total										
Live births .....	49,443	341	710	912	4,907	25,542	9,212	4,247	3,485	87
Infant deaths .....	456	137	28	26	70	131	33	16	13	3
Infant mortality rate .....	9.22	401.76	39.44	28.51	14.27	5.13	3.58	*	*	*
Less than 2,500 grams										
Live births .....	3,706	318	456	507	1,196	946	120	70	77	16
Infant deaths .....	235	137	27	21	27	15	4	2	-	2
Infant mortality rate .....	63.41	430.82	59.21	41.42	22.58	*	*	*	-	*
Less than 500 grams										
Live births .....	71	65	2	1	-	-	-	-	-	3
Infant deaths .....	56	53	1	-	-	-	-	-	-	2
Infant mortality rate .....	788.73	815.38	*	-	-	-	-	-	-	*
500-749 grams										
Live births .....	115	103	12	-	-	-	-	-	-	-
Infant deaths .....	64	60	4	-	-	-	-	-	-	-
Infant mortality rate .....	556.52	582.52	*	-	-	-	-	-	-	-
750-999 grams										
Live births .....	124	78	38	6	-	1	1	-	-	-
Infant deaths .....	16	12	4	-	-	-	-	-	-	-
Infant mortality rate .....	*	*	*	-	-	-	-	-	-	-
1,000-1,249 grams										
Live births .....	138	28	78	19	6	4	2	-	-	1
Infant deaths .....	20	7	7	4	1	-	-	-	-	-
Infant mortality rate .....	144.93	*	*	*	*	-	-	-	-	-
1,250-1,499 grams										
Live births .....	189	14	104	26	30	10	4	-	1	-
Infant deaths .....	18	3	1	5	5	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, 2007 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 <sup>1</sup>										
1,500-1,999 grams										
Live births .....	710	14	167	198	201	91	12	9	11	7
Infant deaths .....	28	-	8	3	10	6	-	1	-	-
Infant mortality rate .....	39.44	-	*	*	*	*	-	*	-	-
2,000-2,499 grams										
Live births .....	2,359	16	55	257	959	840	101	61	65	5
Infant deaths .....	33	2	1	8	10	7	3	1	-	-
Infant mortality rate .....	13.99	*	*	*	*	*	*	*	-	-
2,500-2,999 grams										
Live births .....	8,417	23	82	148	1,521	4,764	1,000	395	467	17
Infant deaths .....	75	-	1	3	23	38	7	2	1	-
Infant mortality rate .....	8.91	-	*	*	15.12	7.98	*	*	*	-
3,000-3,499 grams										
Live births .....	18,380	-	114	151	1,347	10,522	3,399	1,531	1,288	28
Infant deaths .....	81	-	-	1	12	46	7	7	7	-
Infant mortality rate .....	4.41	-	-	*	*	4.37	*	*	*	-
3,500-3,999 grams										
Live births .....	14,198	-	58	89	648	7,171	3,430	1,584	1,205	13
Infant deaths .....	51	-	-	1	6	26	9	3	5	-
Infant mortality rate .....	3.59	-	-	*	*	3.63	*	*	*	-
4,000-4,499 grams										
Live births .....	3,940	-	-	15	163	1,787	1,066	543	362	4
Infant deaths .....	8	-	-	-	2	3	3	-	-	-
Infant mortality rate .....	*	-	-	-	*	*	*	-	-	-
4,500-4,999 grams										
Live births .....	692	-	-	2	29	298	176	113	73	1
Infant deaths .....	3	-	-	-	-	2	-	1	-	-
Infant mortality rate .....	*	-	-	-	-	*	-	*	-	-
5,000 grams or more										
Live births .....	102	-	-	-	3	54	21	11	13	-
Infant deaths .....	2	-	-	-	-	-	2	-	-	-
Infant mortality rate .....	*	-	-	-	-	-	*	-	-	-
Not stated										
Live births .....	8	-	-	-	-	-	-	-	-	8
Infant deaths .....	1	-	-	-	-	-	-	-	-	1
Infant mortality rate .....	*	-	-	-	-	-	-	-	-	*
Asian or Pacific Islander										
Total										
Live births .....	254,488	1,277	2,543	3,370	20,560	145,126	49,745	19,512	11,869	486
Infant deaths .....	1,216	552	109	50	115	262	62	34	20	12
Infant mortality rate .....	4.78	432.26	42.86	14.84	5.59	1.81	1.25	1.74	1.69	*
Less than 2,500 grams										
Live births .....	20,674	1,228	1,945	2,291	7,121	6,641	748	326	322	52
Infant deaths .....	845	552	105	42	75	51	7	5	4	4
Infant mortality rate .....	40.87	449.51	53.98	18.33	10.53	7.68	*	*	*	*

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, 2007 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 .....	309	301	7	-	1	-	-	-	-	-
Infant deaths .....	278	272	5	-	1	-	-	-	-	-
Infant mortality rate .....	899.68	903.65	*	-	*	-	-	-	-	-
500-749 grams										
Live births .....	460	395	57	3	2	2	-	-	-	1
Infant deaths .....	228	208	16	-	2	-	-	-	-	1
Infant mortality rate .....	495.65	526.58	*	-	*	-	-	-	-	*
750-999 grams										
Live births .....	502	287	182	14	3	9	2	-	1	4
Infant deaths .....	78	58	16	-	1	-	-	-	-	2
Infant mortality rate .....	155.38	202.09	*	-	*	-	-	-	-	*
1,000-1,249 grams										
Live births .....	731	133	428	95	40	24	6	-	3	2
Infant deaths .....	42	6	25	5	5	1	-	-	-	-
Infant mortality rate .....	57.46	*	58.41	*	*	*	-	-	-	-
1,250-1,499 grams										
Live births .....	945	43	478	213	147	46	8	4	2	4
Infant deaths .....	51	2	25	10	10	2	-	1	-	-
Infant mortality rate .....	53.97	*	52.30	*	*	*	-	*	-	-
1,500-1,999 grams										
Live births .....	3,809	38	617	1,036	1,501	493	56	29	30	9
Infant deaths .....	74	2	10	18	23	15	1	2	2	1
Infant mortality rate .....	19.43	*	*	*	15.32	*	*	*	*	*
2,000-2,499 grams										
Live births .....	13,918	31	176	930	5,427	6,067	676	293	286	32
Infant deaths .....	95	3	7	9	33	33	6	2	2	-
Infant mortality rate .....	6.83	*	*	*	6.08	5.44	*	*	*	-
2,500-2,999 grams										
Live births .....	58,566	49	215	479	7,310	37,828	7,785	2,741	2,062	97
Infant deaths .....	123	-	2	1	21	73	11	9	5	-
Infant mortality rate .....	2.10	-	*	*	2.87	1.93	*	*	*	-
3,000-3,499 grams										
Live births .....	108,085	-	278	411	4,404	66,238	22,909	8,414	5,237	194
Infant deaths .....	157	-	2	4	14	103	20	8	5	-
Infant mortality rate .....	1.45	-	*	*	*	1.55	0.87	*	*	-
3,500-3,999 grams										
Live births .....	55,218	-	105	151	1,438	28,991	14,798	6,305	3,331	99
Infant deaths .....	64	-	-	1	3	25	19	11	2	2
Infant mortality rate .....	1.16	-	-	*	*	0.86	*	*	*	*
4,000-4,499 grams										
Live births .....	10,476	-	-	33	236	4,778	3,117	1,533	759	20
Infant deaths .....	20	-	-	2	1	9	4	1	2	-
Infant mortality rate .....	1.91	-	-	*	*	*	*	*	*	-

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, 2007 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 .....	1,265	-	-	3	44	562	346	168	140	2
Infant deaths .....	1	-	-	-	-	-	-	-	1	-
Infant mortality rate .....	*	-	-	-	-	-	-	-	*	-
5,000 grams or more										
Live births .....	182	-	-	2	7	88	42	25	18	-
Infant deaths .....	-	-	-	-	-	-	-	-	-	-
Infant mortality rate .....	-	-	-	-	-	-	-	-	-	-
Not stated										
Live births .....	22	-	-	-	-	-	-	-	-	22
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.

<sup>1</sup>/ 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, 2007 period data

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

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
All races						
Total (all birthweights).....	4,316,233	29,153	19,094	15,139	3,956	10,059
Rate.....		6.75	4.42	3.51	0.92	2.33
Less than 2,500 grams.....	355,745	19,963	16,005	13,287	2,717	3,959
Rate.....		56.12	44.99	37.35	7.64	11.13
Less than 500 grams.....	7,446	6,398	6,216	6,022	194	182
Rate.....		859.25	834.81	808.76	26.05	24.44
500-749 grams.....	12,063	5,479	4,580	3,659	921	898
Rate.....		454.20	379.67	303.32	76.35	74.44
750-999 grams.....	12,818	1,975	1,424	957	468	550
Rate.....		154.08	111.09	74.66	36.51	42.91
1,000-1,249 grams.....	14,936	1,083	770	553	217	313
Rate.....		72.51	51.55	37.02	14.53	20.96
1,250-1,499 grams.....	17,986	782	533	383	149	250
Rate.....		43.48	29.63	21.29	8.28	13.90
1,500-1,999 grams.....	69,067	1,853	1,213	900	314	639
Rate.....		26.83	17.56	13.03	4.55	9.25
2,000-2,499 grams.....	221,429	2,394	1,268	813	455	1,126
Rate.....		10.81	5.73	3.67	2.05	5.09
2,500-2,999 grams.....	797,926	3,305	1,234	741	493	2,072
Rate.....		4.14	1.55	0.93	0.62	2.60
3,000-3,499 grams.....	1,687,045	3,556	1,077	584	493	2,479
Rate.....		2.11	0.64	0.35	0.29	1.47
3,500-3,999 grams.....	1,144,002	1,729	488	295	193	1,241
Rate.....		1.51	0.43	0.26	0.17	1.08
4,000-4,499 grams.....	286,218	392	136	89	46	256
Rate.....		1.37	0.48	0.31	0.16	0.89
4,500-4,999 grams.....	40,218	75	30	23	7	45
Rate.....		1.86	0.75	0.57	*	1.12
5,000 grams or more.....	4,536	24	16	13	3	7
Rate.....		5.29	*	*	*	*
Not stated.....	543	109	108	105	3	1
Rate.....		200.74	198.90	193.37	*	*

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, 2007 period data -Cont

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

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
White						
Total (all birthweights).....	3,336,626	18,749	12,261	9,677	2,585	6,487
Rate.....		5.62	3.67	2.90	0.77	1.94
Less than 2,500 grams.....	239,449	12,266	9,974	8,274	1,701	2,291
Rate.....		51.23	41.65	34.55	7.10	9.57
Less than 500 grams.....	4,194	3,585	3,511	3,411	101	74
Rate.....		854.79	837.15	813.30	24.08	17.64
500-749 grams.....	6,939	3,221	2,788	2,256	532	433
Rate.....		464.19	401.79	325.12	76.67	62.40
750-999 grams.....	7,968	1,260	948	642	306	312
Rate.....		158.13	118.98	80.57	38.40	39.16
1,000-1,249 grams.....	9,448	709	533	399	133	176
Rate.....		75.04	56.41	42.23	14.08	18.63
1,250-1,499 grams.....	11,772	501	362	275	87	139
Rate.....		42.56	30.75	23.36	7.39	11.81
1,500-1,999 grams.....	46,845	1,312	890	668	221	422
Rate.....		28.01	19.00	14.26	4.72	9.01
2,000-2,499 grams.....	152,283	1,678	943	622	321	735
Rate.....		11.02	6.19	4.08	2.11	4.83
2,500-2,999 grams.....	563,026	2,225	890	560	330	1,335
Rate.....		3.95	1.58	0.99	0.59	2.37
3,000-3,499 grams.....	1,300,414	2,520	810	450	360	1,710
Rate.....		1.94	0.62	0.35	0.28	1.31
3,500-3,999 grams.....	948,391	1,305	386	238	148	919
Rate.....		1.38	0.41	0.25	0.16	0.97
4,000-4,499 grams.....	246,400	304	111	74	37	193
Rate.....		1.23	0.45	0.30	0.15	0.78
4,500-4,999 grams.....	34,786	58	24	19	5	33
Rate.....		1.67	0.69	*	*	0.95
5,000 grams or more.....	3,768	16	12	10	2	4
Rate.....		*	*	*	*	*
Not stated.....	392	54	53	51	2	1
Rate.....		137.76	135.20	130.10	*	*

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, 2007 period data -Cont

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

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
<b>Black</b>						
Total (all birthweights).....	675,676	8,732	5,748	4,594	1,154	2,984
Rate.....		12.92	8.51	6.80	1.71	4.42
Less than 2,500 grams.....	91,916	6,617	5,155	4,277	878	1,462
Rate.....		71.99	56.08	46.53	9.55	15.91
Less than 500 grams.....	2,872	2,479	2,383	2,302	81	96
Rate.....		863.16	829.74	801.53	28.20	33.43
500-749 grams.....	4,549	1,965	1,547	1,201	346	419
Rate.....		431.96	340.07	264.01	76.06	92.11
750-999 grams.....	4,224	620	405	259	146	216
Rate.....		146.78	95.88	61.32	34.56	51.14
1,000-1,249 grams.....	4,619	313	196	126	70	117
Rate.....		67.76	42.43	27.28	15.15	25.33
1,250-1,499 grams.....	5,080	213	123	72	51	90
Rate.....		41.93	24.21	14.17	10.04	17.72
1,500-1,999 grams.....	17,703	439	250	176	74	189
Rate.....		24.80	14.12	9.94	4.18	10.68
2,000-2,499 grams.....	52,869	588	251	142	109	337
Rate.....		11.12	4.75	2.69	2.06	6.37
2,500-2,999 grams.....	167,917	882	260	131	129	622
Rate.....		5.25	1.55	0.78	0.77	3.70
3,000-3,499 grams.....	260,166	798	188	84	104	610
Rate.....		3.07	0.72	0.32	0.40	2.34
3,500-3,999 grams.....	126,195	308	73	40	33	235
Rate.....		2.44	0.58	0.32	0.26	1.86
4,000-4,499 grams.....	25,402	60	15	8	7	44
Rate.....		2.36	*	*	*	1.73
4,500-4,999 grams.....	3,475	13	5	3	2	8
Rate.....		*	*	*	*	*
5,000 grams or more.....	484	5	3	2	1	2
Rate.....		*	*	*	*	*
Not stated.....	121	48	48	48	-	-
Rate.....		396.69	396.69	396.69	-	-

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, 2007 period data -Cont

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

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
American Indian <sup>1</sup>						
Total (all birthweights).....	49,443	456	225	166	59	231
Rate.....		9.22	4.55	3.36	1.19	4.67
Less than 2,500 grams.....	3,706	235	170	136	34	65
Rate.....		63.41	45.87	36.70	9.17	17.54
Less than 500 grams.....	71	56	52	48	4	3
Rate.....		788.73	732.39	676.06	*	*
500-749 grams.....	115	64	54	45	9	10
Rate.....		556.52	469.57	391.30	*	*
750-999 grams.....	124	16	12	8	4	4
Rate.....		*	*	*	*	*
1,000-1,249 grams.....	138	20	11	7	4	8
Rate.....		144.93	*	*	*	*
1,250-1,499 grams.....	189	18	11	9	2	6
Rate.....		*	*	*	*	*
1,500-1,999 grams.....	710	28	14	8	6	14
Rate.....		39.44	*	*	*	*
2,000-2,499 grams.....	2,359	33	14	10	4	19
Rate.....		13.99	*	*	*	*
2,500-2,999 grams.....	8,417	75	22	12	10	52
Rate.....		8.91	2.61	*	*	6.18
3,000-3,499 grams.....	18,380	81	20	8	11	62
Rate.....		4.41	1.09	*	*	3.37
3,500-3,999 grams.....	14,198	51	8	4	4	43
Rate.....		3.59	*	*	*	3.03
4,000-4,499 grams.....	3,940	8	2	2	-	6
Rate.....		*	*	*	-	*
4,500-4,999 grams.....	692	3	1	1	-	2
Rate.....		*	*	*	-	*
5,000 grams or more.....	102	2	1	1	-	1
Rate.....		*	*	*	-	*
Not stated.....	8	1	1	1	-	-
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, 2007 period data -Cont

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

Birthweight and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
Asian or Pacific Islander						
Total (all birthweights).....	254,488	1,216	860	701	158	357
Rate.....		4.78	3.38	2.75	0.62	1.40
Less than 2,500 grams.....	20,674	845	705	600	105	141
Rate.....		40.87	34.10	29.02	5.08	6.82
Less than 500 grams.....	309	278	269	261	8	9
Rate.....		899.68	870.55	844.66	*	*
500-749 grams.....	460	228	191	158	33	37
Rate.....		495.65	415.22	343.48	71.74	80.43
750-999 grams.....	502	78	59	47	12	18
Rate.....		155.38	117.53	93.63	*	*
1,000-1,249 grams.....	731	42	30	21	9	12
Rate.....		57.46	41.04	28.73	*	*
1,250-1,499 grams.....	945	51	36	27	9	15
Rate.....		53.97	38.10	28.57	*	*
1,500-1,999 grams.....	3,809	74	59	47	12	14
Rate.....		19.43	15.49	12.34	*	*
2,000-2,499 grams.....	13,918	95	60	39	21	35
Rate.....		6.83	4.31	2.80	1.51	2.51
2,500-2,999 grams.....	58,566	123	62	38	24	62
Rate.....		2.10	1.06	0.65	0.41	1.06
3,000-3,499 grams.....	108,085	157	59	41	18	97
Rate.....		1.45	0.55	0.38	*	0.90
3,500-3,999 grams.....	55,218	64	20	12	8	44
Rate.....		1.16	0.36	*	*	0.80
4,000-4,499 grams.....	10,476	20	7	5	2	12
Rate.....		1.91	*	*	*	*
4,500-4,999 grams.....	1,265	1	-	-	-	1
Rate.....		*	-	-	-	*
5,000 grams or more.....	182	-	-	-	-	-
Rate.....		-	-	-	-	-
Not stated.....	22	6	6	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

<sup>1</sup> / 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, 2007 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 .....	4,316,233	29,153 675.4	19,094 442.4	15,139 350.7	3,956 91.7	10,059 233.1
Congenital malformations (Q00-Q99).....	.	5,823 134.9	4,091 94.8	3,129 72.5	962 22.3	1,732 40.1
Short gestation and low birthweight nec (P07).....	.	4,863 112.7	4,746 110.0	4,615 106.9	132 3.1	117 2.7
Sudden infant death syndrome (R95).....	.	2,461 57.0	207 4.8	27 0.6	180 4.2	2,254 52.2
Maternal complications of pregnancy (P01).....	.	1,773 41.1	1,754 40.6	1,733 40.2	20 0.5	19 *
Accidents (unintentional injures) (V01-X59).....	.	1,283 29.7	122 2.8	28 0.6	94 2.2	1,161 26.9
Complications of placenta, cord, membranes (P02).....	.	1,120 25.9	1,108 25.7	1,065 24.7	43 1.0	12 *
Bacterial sepsis of newborn (P36).....	.	828 19.2	782 18.1	325 7.5	457 10.6	46 1.1
Respiratory distress of newborn (P22).....	.	800 18.5	780 18.1	604 14.0	176 4.1	20 0.5
Diseases of the circulatory system (I00-I99).....	.	621 14.4	134 3.1	70 1.6	64 1.5	487 11.3
Neonatal hemorrhage (P50-P52, P54).....	.	604 14.0	593 13.7	414 9.6	179 4.1	11 *
All other causes.....	.	8,977 208.0	4,778 110.7	3,130 72.5	1,648 38.2	4,199 97.3
Less than 2,500 grams						
All Causes .....	355,745	19,963 5,611.6	16,005 4,499.0	13,287 3,735.0	2,717 763.7	3,959 1,112.9
Congenital malformations (Q00-Q99).....	.	3,594 1,010.3	2,808 789.3	2,283 641.8	525 147.6	786 220.9
Short gestation and low birthweight nec (P07).....	.	4,775 1,342.3	4,660 1,309.9	4,531 1,273.7	130 36.5	115 32.3
Sudden infant death syndrome (R95).....	.	501 140.8	41 11.5	3 *	38 10.7	460 129.3
Maternal complications of pregnancy (P01).....	.	1,722 484.1	1,702 478.4	1,682 472.8	20 5.6	19 *
Accidents (unintentional injures) (V01-X59).....	.	224 63.0	25 7.0	8 *	17 *	199 55.9
Complications of placenta, cord, membranes (P02).....	.	1,037 291.5	1,027 288.7	993 279.1	33 9.3	10 *
Bacterial sepsis of newborn (P36).....	.	705 198.2	662 186.1	267 75.1	394 110.8	43 12.1
Respiratory distress of newborn (P22).....	.	780 219.3	762 214.2	591 166.1	171 48.1	18 *
Diseases of the circulatory system (I00-I99).....	.	298 83.8	69 19.4	42 11.8	27 7.6	230 64.7

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, 2007 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						
Neonatal hemorrhage (P50-P52, P54).....	558	551	389	162	7	
	156.9	154.9	109.3	45.5	*	
All other causes.....	5,769	3,697	2,498	1,199	2,072	
	1,621.7	1,039.2	702.2	337.0	582.4	
2,500 grams or more						
All Causes .....	3,959,945	9,081	2,981	1,746	1,236	6,099
		229.3	75.3	44.1	31.2	154.0
Congenital malformations (Q00-Q99).....	2,225	1,279	843	436	946	
	56.2	32.3	21.3	11.0	23.9	
Short gestation and low birthweight nec (P07).....	36	34	32	2	2	
	0.9	0.9	0.8	*	*	
Sudden infant death syndrome (R95).....	1,959	165	24	142	1,794	
	49.5	4.2	0.6	3.6	45.3	
Maternal complications of pregnancy (P01).....	33	33	33	-	-	
	0.8	0.8	0.8	-	-	
Accidents (unintentional injuries) (V01-X59).....	1,059	97	19	77	962	
	26.7	2.4	*	1.9	24.3	
Complications of placenta, cord, membranes (P02).....	80	78	68	10	2	
	2.0	2.0	1.7	*	*	
Bacterial sepsis of newborn (P36).....	122	119	57	61	3	
	3.1	3.0	1.4	1.5	*	
Respiratory distress of newborn (P22).....	20	18	13	5	2	
	0.5	*	*	*	*	
Diseases of the circulatory system (I00-I99).....	323	65	28	37	258	
	8.2	1.6	0.7	0.9	6.5	
Neonatal hemorrhage (P50-P52, P54).....	45	41	24	17	4	
	1.1	1.0	0.6	*	*	
All other causes.....	3,179	1,053	605	448	2,126	
	80.3	26.6	15.3	11.3	53.7	
Not stated birthweight						
All Causes .....	543	109	108	105	3	1
		20,073.7	19,889.5	19,337.0	*	*
Congenital malformations (Q00-Q99).....	4	4	3	1	-	
	*	*	*	*	-	
Short gestation and low birthweight nec (P07).....	52	52	52	-	-	
	9,576.4	9,576.4	9,576.4	-	-	
Sudden infant death syndrome (R95).....	-	-	-	-	-	
	-	-	-	-	-	
Maternal complications of pregnancy (P01).....	18	18	18	-	-	
	*	*	*	-	-	
Accidents (unintentional injuries) (V01-X59).....	-	-	-	-	-	
	-	-	-	-	-	
Complications of placenta, cord, membranes (P02).....	3	3	3	-	-	
	*	*	*	-	-	
Bacterial sepsis of newborn (P36).....	2	2	1	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, 2007 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
<b>All races</b>						
Respiratory distress of newborn (P22).....	.	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	.	-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	.	1	1	1	-	-
All other causes.....	.	29	27	26	1	1
		5,340.7	4,972.4	4,788.2	*	*
<b>White</b>						
<b>All birthweights</b>						
All Causes .....	3,336,626	18,749	12,261	9,677	2,585	6,487
		561.9	367.5	290.0	77.5	194.4
Congenital malformations (Q00-Q99).....	.	4,343	3,113	2,415	699	1,229
		130.2	93.3	72.4	20.9	36.8
Short gestation and low birthweight nec (P07).....	.	2,673	2,620	2,545	76	53
		80.1	78.5	76.3	2.3	1.6
Sudden infant death syndrome (R95).....	.	1,634	134	16	118	1,500
		49.0	4.0	*	3.5	45.0
Maternal complications of pregnancy (P01).....	.	1,053	1,044	1,032	12	9
		31.6	31.3	30.9	*	*
Accidents (unintentional injuries) (V01-X59).....	.	822	80	20	60	743
		24.6	2.4	0.6	1.8	22.3
Complications of placenta, cord, membranes (P02).....	.	717	710	684	26	7
		21.5	21.3	20.5	0.8	*
Bacterial sepsis of newborn (P36).....	.	506	482	189	293	24
		15.2	14.4	5.7	8.8	0.7
Respiratory distress of newborn (P22).....	.	490	479	368	112	11
		14.7	14.4	11.0	3.4	*
Diseases of the circulatory system (I00-I99).....	.	396	88	45	43	308
		11.9	2.6	1.3	1.3	9.2
Neonatal hemorrhage (P50-P52, P54).....	.	417	410	299	111	7
		12.5	12.3	9.0	3.3	*
All other causes.....	.	5,697	3,101	2,065	1,035	2,596
		170.7	92.9	61.9	31.0	77.8
<b>Less than 2,500 grams</b>						
All Causes .....	239,449	12,266	9,974	8,274	1,701	2,291
		5,122.6	4,165.4	3,455.4	710.4	956.8
Congenital malformations (Q00-Q99).....	.	2,636	2,110	1,741	370	526
		1,100.9	881.2	727.1	154.5	219.7
Short gestation and low birthweight nec (P07).....	.	2,628	2,577	2,503	74	51
		1,097.5	1,076.2	1,045.3	30.9	21.3
Sudden infant death syndrome (R95).....	.	285	27	2	25	258
		119.0	11.3	*	10.4	107.7
Maternal complications of pregnancy (P01).....	.	1,016	1,007	995	12	9
		424.3	420.5	415.5	*	*

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, 2007 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
<b>White</b>						
Accidents (unintentional injures) (V01-X59).....	. 125	16	5	11	109	
	52.2	*	*	*	45.5	
Complications of placenta, cord, membranes (P02).....	. 655	649	631	18	6	
	273.5	271.0	263.5	*	*	
Bacterial sepsis of newborn (P36).....	. 423	401	148	253	22	
	176.7	167.5	61.8	105.7	9.2	
Respiratory distress of newborn (P22).....	. 475	465	357	108	10	
	198.4	194.2	149.1	45.1	*	
Diseases of the circulatory system (I00-I99).....	. 181	43	27	16	139	
	75.6	18.0	11.3	*	58.0	
Neonatal hemorrhage (P50-P52, P54).....	. 379	375	277	98	4	
	158.3	156.6	115.7	40.9	*	
All other causes.....	. 3,461	2,304	1,587	716	1,157	
	1,445.4	962.2	662.8	299.0	483.2	
<b>2,500 grams or more</b>						
All Causes .....	3,096,785	6,429	2,234	1,352	882	4,195
		207.6	72.1	43.7	28.5	135.5
Congenital malformations (Q00-Q99).....	. 1,703	1,000	672	328	703	
	55.0	32.3	21.7	10.6	22.7	
Short gestation and low birthweight nec (P07).....	. 25	23	21	2	2	
	0.8	0.7	0.7	*	*	
Sudden infant death syndrome (R95).....	. 1,349	107	14	93	1,242	
	43.6	3.5	*	3.0	40.1	
Maternal complications of pregnancy (P01).....	. 26	26	26	-	-	
	0.8	0.8	0.8	-	-	
Accidents (unintentional injures) (V01-X59).....	. 697	63	14	49	634	
	22.5	2.0	*	1.6	20.5	
Complications of placenta, cord, membranes (P02).....	. 61	60	52	8	1	
	2.0	1.9	1.7	*	*	
Bacterial sepsis of newborn (P36).....	. 83	81	41	40	2	
	2.7	2.6	1.3	1.3	*	
Respiratory distress of newborn (P22).....	. 15	14	10	4	1	
	*	*	*	*	*	
Diseases of the circulatory system (I00-I99).....	. 214	46	18	27	169	
	6.9	1.5	*	0.9	5.5	
Neonatal hemorrhage (P50-P52, P54).....	. 37	33	20	13	3	
	1.2	1.1	0.6	*	*	
All other causes.....	. 2,219	781	463	318	1,438	
	71.7	25.2	15.0	10.3	46.4	
<b>Not stated birthweight</b>						
All Causes .....	392	54	53	51	2	1
		13,775.5	13,520.4	13,010.2	*	*
Congenital malformations (Q00-Q99).....	. 3	3	2	1	-	
	*	*	*	*	-	
Short gestation and low birthweight nec (P07).....	. 20	20	20	-	-	
	5,102.0	5,102.0	5,102.0	-	-	

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, 2007 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
<b>White</b>						
Sudden infant death syndrome (R95).....	.	-	-	-	-	-
Maternal complications of pregnancy (P01).....	.	11	11	11	-	-
Accidents (unintentional injuries) (V01-X59).....	.	-	-	-	-	-
Complications of placenta, cord, membranes (P02).....	.	1	1	1	-	-
Bacterial sepsis of newborn (P36).....	.	-	-	-	-	-
Respiratory distress of newborn (P22).....	.	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	.	-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	.	1	1	1	-	-
All other causes.....	.	17	16	15	1	1
		*	*	*	*	*
<b>Black</b>						
<b>All birthweights</b>						
All Causes .....	675,676	8,732	5,748	4,594	1,154	2,984
		1,292.3	850.7	679.9	170.8	441.6
Congenital malformations (Q00-Q99).....	.	1,105	714	514	200	391
		163.5	105.7	76.1	29.6	57.9
Short gestation and low birthweight nec (P07).....	.	1,931	1,871	1,819	51	60
		285.8	276.9	269.2	7.5	8.9
Sudden infant death syndrome (R95).....	.	701	66	9	56	636
		103.7	9.8	*	8.3	94.1
Maternal complications of pregnancy (P01).....	.	625	614	606	8	10
		92.5	90.9	89.7	*	*
Accidents (unintentional injuries) (V01-X59).....	.	395	34	6	28	361
		58.5	5.0	*	4.1	53.4
Complications of placenta, cord, membranes (P02).....	.	348	344	330	14	4
		51.5	50.9	48.8	*	*
Bacterial sepsis of newborn (P36).....	.	276	256	116	141	19
		40.8	37.9	17.2	20.9	*
Respiratory distress of newborn (P22).....	.	276	267	212	55	9
		40.8	39.5	31.4	8.1	*
Diseases of the circulatory system (I00-I99).....	.	178	32	14	17	146
		26.3	4.7	*	*	21.6
Neonatal hemorrhage (P50-P52, P54).....	.	152	147	94	53	4
		22.5	21.8	13.9	7.8	*
All other causes.....	.	2,746	1,403	873	530	1,343
		406.4	207.6	129.2	78.4	198.8
<b>Less than 2,500 grams</b>						
All Causes .....	91,916	6,617	5,155	4,277	878	1,462
		7,199.0	5,608.4	4,653.2	955.2	1,590.6

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, 2007 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
<b>Black</b>						
Congenital malformations (Q00-Q99).....	. 735	520	397	124	215	
	799.6	565.7	431.9	134.9	233.9	
Short gestation and low birthweight nec (P07).....	. 1,894	1,834	1,783	51	60	
	2,060.6	1,995.3	1,939.8	55.5	65.3	
Sudden infant death syndrome (R95).....	. 197	14	1	13	182	
	214.3	*	*	*	198.0	
Maternal complications of pregnancy (P01).....	. 614	604	596	8	10	
	668.0	657.1	648.4	*	*	
Accidents (unintentional injures) (V01-X59).....	. 89	7	3	4	82	
	96.8	*	*	*	89.2	
Complications of placenta, cord, membranes (P02).....	. 332	329	316	13	3	
	361.2	357.9	343.8	*	*	
Bacterial sepsis of newborn (P36).....	. 245	227	103	125	18	
	266.5	247.0	112.1	136.0	*	
Respiratory distress of newborn (P22).....	. 272	264	209	55	8	
	295.9	287.2	227.4	59.8	*	
Diseases of the circulatory system (I00-I99).....	. 99	19	10	9	80	
	107.7	*	*	*	87.0	
Neonatal hemorrhage (P50-P52, P54).....	. 146	143	93	50	3	
	158.8	155.6	101.2	54.4	*	
All other causes.....	. 1,994	1,193	767	426	801	
	2,169.4	1,297.9	834.5	463.5	871.4	
<b>2,500 grams or more</b>						
All Causes .....	583,639	2,067	545	269	276	1,522
		354.2	93.4	46.1	47.3	260.8
Congenital malformations (Q00-Q99).....	. 370	193	117	76	176	
	63.4	33.1	20.0	13.0	30.2	
Short gestation and low birthweight nec (P07).....	. 9	9	9	-	-	
	*	*	*	-	-	
Sudden infant death syndrome (R95).....	. 505	51	8	43	453	
	86.5	8.7	*	7.4	77.6	
Maternal complications of pregnancy (P01).....	. 4	4	4	-	-	
	*	*	*	-	-	
Accidents (unintentional injures) (V01-X59).....	. 307	27	3	24	279	
	52.6	4.6	*	4.1	47.8	
Complications of placenta, cord, membranes (P02).....	. 14	13	12	1	1	
	*	*	*	*	*	
Bacterial sepsis of newborn (P36).....	. 29	28	12	16	1	
	5.0	4.8	*	*	*	
Respiratory distress of newborn (P22).....	. 4	3	3	-	1	
	*	*	*	-	*	
Diseases of the circulatory system (I00-I99).....	. 79	12	4	8	66	
	13.5	*	*	*	11.3	
Neonatal hemorrhage (P50-P52, P54).....	. 5	4	1	3	1	
	*	*	*	*	*	
All other causes.....	. 741	199	95	104	543	
	127.0	34.1	16.3	17.8	93.0	

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, 2007 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
<b>Black</b>						
Not stated birthweight						
All Causes .....	121	48	48	48	-	-
		39,669.4	39,669.4	39,669.4	-	-
Congenital malformations (Q00-Q99).....	.	-	-	-	-	-
		-	-	-	-	-
Short gestation and low birthweight nec (P07).....	.	28	28	28	-	-
		23,140.5	23,140.5	23,140.5	-	-
Sudden infant death syndrome (R95).....	.	-	-	-	-	-
		-	-	-	-	-
Maternal complications of pregnancy (P01).....	.	6	6	6	-	-
		*	*	*	-	-
Accidents (unintentional injures) (V01-X59).....	.	-	-	-	-	-
		-	-	-	-	-
Complications of placenta, cord, membranes (P02).....	.	2	2	2	-	-
		*	*	*	-	-
Bacterial sepsis of newborn (P36).....	.	1	1	1	-	-
		*	*	*	-	-
Respiratory distress of newborn (P22).....	.	-	-	-	-	-
		-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	.	-	-	-	-	-
		-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	.	-	-	-	-	-
		-	-	-	-	-
All other causes.....	.	11	11	11	-	-
		*	*	*	-	-
<b>American Indian<sup>1</sup></b>						
All birthweights						
All Causes .....	49,443	456	225	166	59	231
		922.3	455.1	335.7	119.3	467.2
Congenital malformations (Q00-Q99).....	.	91	60	49	11	31
		184.1	121.4	99.1	*	62.7
Short gestation and low birthweight nec (P07).....	.	47	45	43	2	2
		95.1	91.0	87.0	*	*
Sudden infant death syndrome (R95).....	.	70	4	-	4	66
		141.6	*	-	*	133.5
Maternal complications of pregnancy (P01).....	.	17	17	17	-	-
		*	*	*	-	-
Accidents (unintentional injures) (V01-X59).....	.	34	3	1	2	31
		68.8	*	*	*	62.7
Complications of placenta, cord, membranes (P02).....	.	13	13	13	-	-
		*	*	*	-	-
Bacterial sepsis of newborn (P36).....	.	18	16	9	7	2
		*	*	*	*	*
Respiratory distress of newborn (P22).....	.	3	3	2	1	-
		*	*	*	*	-

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2007 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 <sup>1</sup>						
Diseases of the circulatory system (I00-I99).....	.	12 *	3 *	2 *	1 *	9 *
Neonatal hemorrhage (P50-P52, P54).....	.	6 *	6 *	1 *	5 *	- -
All other causes.....	.	144 291.2	54 109.2	29 58.7	26 52.6	90 182.0
Less than 2,500 grams						
All Causes .....	3,706	235 6,341.1	170 4,587.2	136 3,669.7	34 917.4	65 1,753.9
Congenital malformations (Q00-Q99).....	.	51 1,376.1	40 1,079.3	35 944.4	5 *	11 *
Short gestation and low birthweight nec (P07).....	.	47 1,268.2	45 1,214.2	43 1,160.3	2 *	2 *
Sudden infant death syndrome (R95).....	.	11 *	- -	- -	- -	11 *
Maternal complications of pregnancy (P01).....	.	15 *	15 *	15 *	- -	- -
Accidents (unintentional injuries) (V01-X59).....	.	6 *	1 *	- -	1 *	5 *
Complications of placenta, cord, membranes (P02).....	.	12 *	12 *	12 *	- -	- -
Bacterial sepsis of newborn (P36).....	.	16 *	14 *	9 *	5 *	2 *
Respiratory distress of newborn (P22).....	.	2 *	2 *	2 *	- -	- -
Diseases of the circulatory system (I00-I99).....	.	2 *	1 *	1 *	- -	1 *
Neonatal hemorrhage (P50-P52, P54).....	.	6 *	6 *	1 *	5 *	- -
All other causes.....	.	66 1,780.9	34 917.4	18 *	15 *	32 863.5
2,500 grams or more						
All Causes .....	45,729	220 481.1	54 118.1	29 63.4	26 56.9	166 363.0
Congenital malformations (Q00-Q99).....	.	40 87.5	20 43.7	14 *	6 *	20 43.7
Short gestation and low birthweight nec (P07).....	.	- -	- -	- -	- -	- -
Sudden infant death syndrome (R95).....	.	59 129.0	4 *	- -	4 *	55 120.3
Maternal complications of pregnancy (P01).....	.	1 *	1 *	1 *	- -	- -
Accidents (unintentional injuries) (V01-X59).....	.	28 61.2	2 *	1 *	1 *	26 56.9
Complications of placenta, cord, membranes (P02).....	.	1 *	1 *	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, 2007 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 <sup>1</sup>						
Bacterial sepsis of newborn (P36).....	.	2 *	2 *	-	2 *	-
Respiratory distress of newborn (P22).....	.	1 *	1 *	-	1 *	-
Diseases of the circulatory system (I00-I99).....	.	10 *	2 *	1 *	1 *	8 *
Neonatal hemorrhage (P50-P52, P54).....	.	-	-	-	-	-
All other causes.....	.	78 170.6	20 43.7	10 *	10 *	57 124.6
Not stated birthweight						
All Causes .....	8	1 *	1 *	1 *	-	-
Congenital malformations (Q00-Q99).....	.	-	-	-	-	-
Short gestation and low birthweight nec (P07).....	.	-	-	-	-	-
Sudden infant death syndrome (R95).....	.	-	-	-	-	-
Maternal complications of pregnancy (P01).....	.	1 *	1 *	1 *	-	-
Accidents (unintentional injuries) (V01-X59).....	.	-	-	-	-	-
Complications of placenta, cord, membranes (P02).....	.	-	-	-	-	-
Bacterial sepsis of newborn (P36).....	.	-	-	-	-	-
Respiratory distress of newborn (P22).....	.	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	.	-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	.	-	-	-	-	-
All other causes.....	.	-	-	-	-	-
Asian or Pacific Islander						
All birthweights						
All Causes .....	254,488	1,216 477.8	860 337.9	701 275.5	158 62.1	357 140.3
Congenital malformations (Q00-Q99).....	.	284 111.6	203 79.8	151 59.3	52 20.4	81 31.8
Short gestation and low birthweight nec (P07).....	.	212 83.3	210 82.5	208 81.7	2 *	2 *
Sudden infant death syndrome (R95).....	.	55 21.6	3 *	1 *	2 *	52 20.4

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2007 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
<b>Asian or Pacific Islander</b>						
Maternal complications of pregnancy (P01).....	.	78 30.6	78 30.6	78 30.6	- -	- -
Accidents (unintentional injures) (V01-X59).....	.	32 12.6	5 *	1 *	4 *	27 10.6
Complications of placenta, cord, membranes (P02).....	.	41 16.1	40 15.7	37 14.5	3 *	1 *
Bacterial sepsis of newborn (P36).....	.	28 11.0	27 10.6	11 *	16 *	1 *
Respiratory distress of newborn (P22).....	.	31 12.2	31 12.2	23 9.0	8 *	- -
Diseases of the circulatory system (I00-I99).....	.	35 13.8	11 *	8 *	3 *	24 9.4
Neonatal hemorrhage (P50-P52, P54).....	.	30 11.8	30 11.8	20 7.9	10 *	- -
All other causes.....	.	390 153.2	221 86.8	163 64.1	58 22.8	169 66.4
<b>Less than 2,500 grams</b>						
All Causes .....	20,674	845 4,087.3	705 3,410.1	600 2,902.2	105 507.9	141 682.0
Congenital malformations (Q00-Q99).....	.	171 827.1	138 667.5	111 536.9	27 130.6	33 159.6
Short gestation and low birthweight nec (P07).....	.	206 996.4	204 986.7	202 977.1	2 *	2 *
Sudden infant death syndrome (R95).....	.	8 *	- -	- -	- -	8 *
Maternal complications of pregnancy (P01).....	.	76 367.6	76 367.6	76 367.6	- -	- -
Accidents (unintentional injures) (V01-X59).....	.	4 *	1 *	- -	1 *	3 *
Complications of placenta, cord, membranes (P02).....	.	37 179.0	36 174.1	34 164.5	2 *	1 *
Bacterial sepsis of newborn (P36).....	.	20 96.7	19 *	7 *	12 *	1 *
Respiratory distress of newborn (P22).....	.	31 149.9	31 149.9	23 111.3	8 *	- -
Diseases of the circulatory system (I00-I99).....	.	16 *	6 *	4 *	2 *	10 *
Neonatal hemorrhage (P50-P52, P54).....	.	27 130.6	27 130.6	18 *	9 *	- -
All other causes.....	.	249 1,204.4	167 807.8	125 604.6	41 198.3	82 396.6
<b>2,500 grams or more</b>						
All Causes .....	233,792	365 156.1	149 63.7	96 41.1	52 22.2	216 92.4
Congenital malformations (Q00-Q99).....	.	112 47.9	65 27.8	40 17.1	25 10.7	47 20.1

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, 2007 period data -Cont

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

Cause of death, birthweight, and race of mother	Live	Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal
Asian or Pacific Islander					
Short gestation and low birthweight nec (P07).....	. 2	2	2	-	-
	* *	* *	* *	-	-
Sudden infant death syndrome (R95).....	. 47	3	1	2	44
	20.1	*	*	*	18.8
Maternal complications of pregnancy (P01).....	. 2	2	2	-	-
	* *	* *	* *	-	-
Accidents (unintentional injuries) (V01-X59).....	. 27	4	1	3	23
	11.5	*	*	*	9.8
Complications of placenta, cord, membranes (P02).....	. 4	4	3	1	-
	* *	* *	* *	* *	-
Bacterial sepsis of newborn (P36).....	. 7	7	4	3	-
	* *	* *	* *	* *	-
Respiratory distress of newborn (P22).....	. -	-	-	-	-
	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	. 19	5	4	1	14
	* *	* *	* *	* *	* *
Neonatal hemorrhage (P50-P52, P54).....	. 3	3	2	1	-
	* *	* *	* *	* *	-
All other causes.....	. 141	54	37	16	87
	60.3	23.1	15.8	*	37.2
Not stated birthweight					
All Causes .....	22	6	6	5	1
	* *	* *	* *	* *	-
Congenital malformations (Q00-Q99).....	. 1	1	1	-	-
	* *	* *	* *	-	-
Short gestation and low birthweight nec (P07).....	. 4	4	4	-	-
	* *	* *	* *	-	-
Sudden infant death syndrome (R95).....	. -	-	-	-	-
	-	-	-	-	-
Maternal complications of pregnancy (P01).....	. -	-	-	-	-
	-	-	-	-	-
Accidents (unintentional injuries) (V01-X59).....	. -	-	-	-	-
	-	-	-	-	-
Complications of placenta, cord, membranes (P02).....	. -	-	-	-	-
	-	-	-	-	-
Bacterial sepsis of newborn (P36).....	. 1	1	-	1	-
	* *	* *	-	* *	-
Respiratory distress of newborn (P22).....	. -	-	-	-	-
	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	. -	-	-	-	-
	-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	. -	-	-	-	-
	-	-	-	-	-
All other causes.....	. -	-	-	-	-
	-	-	-	-	-

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

- / Quality zero.

<sup>1</sup> / Includes Aleuts and Eskimos.

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2007

[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 2007 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	467	364	338	26	103
White	304	233	214	19	71
Black	127	106	100	6	21
Alabama					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Alaska					
Total	3	1	1	-	2
White	-	-	-	-	-
Black	-	-	-	-	-
Arizona					
Total	21	12	10	2	9
White	15	10	8	2	5
Black	-	-	-	-	-
Arkansas					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
California					
Total	128	108	101	7	20
White	93	79	73	6	14
Black	20	17	16	1	3
Colorado					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Connecticut					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Delaware					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Dist of Columbia					
Total	1	1	1	-	-
White	1	1	1	-	-
Black	-	-	-	-	-
Florida					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Georgia					
Total	7	6	4	2	1
White	4	3	3	-	1
Black	3	3	1	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, 2007

[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 2007 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
<b>Idaho</b>					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
<b>Illinois</b>					
Total	17	14	13	1	3
White	7	7	6	1	-
Black	10	7	7	-	3
<b>Indiana</b>					
Total	2	2	2	-	-
White	1	1	1	-	-
Black	1	1	1	-	-
<b>Iowa</b>					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
<b>Kansas</b>					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
<b>Kentucky</b>					
Total	3	2	2	-	1
White	3	2	2	-	1
Black	-	-	-	-	-
<b>Louisiana</b>					
Total	39	29	28	1	10
White	12	10	10	-	2
Black	25	18	17	1	7
<b>Maine</b>					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
<b>Maryland</b>					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
<b>Massachusetts</b>					
Total	3	2	2	-	1
White	1	-	-	-	1
Black	2	2	2	-	-
<b>Michigan</b>					
Total	4	4	3	1	-
White	3	3	3	-	-
Black	1	1	-	1	-
<b>Minnesota</b>					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
<b>Mississippi</b>					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-



Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2007

[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 2007 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Missouri					
Total	3	3	3	-	-
White	1	1	1	-	-
Black	2	2	2	-	-
Montana					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Nebraska					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Nevada					
Total	9	9	9	-	-
White	3	3	3	-	-
Black	3	3	3	-	-
New Hampshire					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
New Jersey					
Total	4	4	4	-	-
White	1	1	1	-	-
Black	2	2	2	-	-
New Mexico					
Total	3	2	2	-	1
White	3	2	2	-	1
Black	-	-	-	-	-
New York					
Total	14	12	12	-	2
White	10	8	8	-	2
Black	4	4	4	-	-
New York City					
Total	6	5	2	3	1
White	5	4	1	3	1
Black	1	1	1	-	-
North Carolina					
Total	1	1	1	-	-
White	1	1	1	-	-
Black	-	-	-	-	-
North Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Ohio					
Total	18	16	16	-	2
White	7	5	5	-	2
Black	11	11	11	-	-
Oklahoma					
Total	2	2	2	-	-
White	1	1	1	-	-
Black	1	1	1	-	-

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2007

[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 2007 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	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Pennsylvania					
Total	5	3	3	-	2
White	1	1	1	-	-
Black	4	2	2	-	2
Rhode Island					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
South Carolina					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
South Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Tennessee					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Texas					
Total	165	123	114	9	42
White	124	89	82	7	35
Black	35	29	28	1	6
Utah					
Total	4	1	1	-	3
White	4	1	1	-	3
Black	-	-	-	-	-
Vermont					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Virginia					
Total	2	2	2	-	-
White	-	-	-	-	-
Black	2	2	2	-	-
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, 2007

[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 2007 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	1	-	-
White	1	1	1	-	-
Black	-	-	-	-	-
Virgin Islands					
Total	1	-	-	-	1
White	-	-	-	-	-
Black	1	-	-	-	1
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.