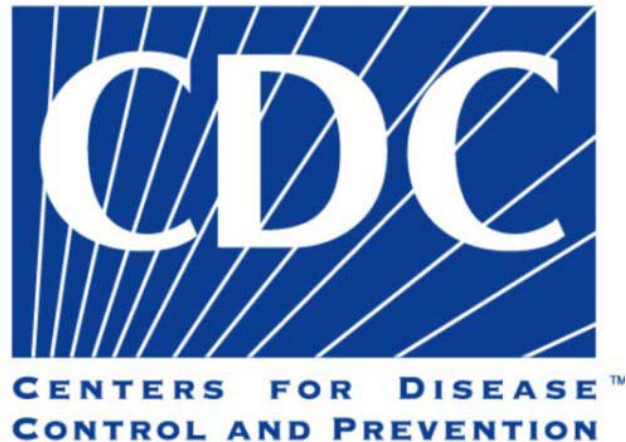


**User Guide
to the
2010 Period Linked
Birth/Infant Death
Public Use File**



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

2010 Period Linked Birth/Infant Death Data Set

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[User's Guide for the 2010 Natality File](#)

[Deaths: Final Data for 2010](#) (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 2010 period linked file. Differences between period and birth cohort data are outlined below.

Period data - The numerator for the 2010 period linked file consists of all infant deaths occurring in 2010 linked to their corresponding birth certificates, whether the birth occurred in 2009 or 2010. The denominator file for this data set is the 2009 natality file, that is, all births occurring in 2009.

The 2010 period linked birth/infant death data set includes several data files. The first file includes all US infant deaths which occurred in the 2010 data year linked to their corresponding birth certificates, whether the birth occurred in 2009 or 2010 - 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 2010 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 birth 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 . Thirty-three states, the District of Columbia (DC), and Puerto Rico (as well as Northern Marianas not included in the linked file), representing 76 percent of all U.S. births, implemented the 2003 revision on or before January 1, 2010. Where comparable, revised data are combined with data from the remaining reporting areas. 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 mortality data for thirty four states and the District of Columbia, which implemented the 2003 revision of the U.S. Standard Certificate of Death as of January 1, 2010. Data from all other areas are based on the 1989 revision. Most of the variables from the death certificate in this file are comparable despite changes to item wording and format in the 2003 revision. See more about the 2003 Revision at: http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm .

Incomplete National Reporting - Using Reporting Flags

As a result of the delayed, phased transition to the 2003 U.S. Standard Certificate of Live Birth, the 2010 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) (see the [2010 Natality User Guide](#)). 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 2010 linked file contains information on infants born in both 2009 and 2010. As reporting areas changed between 2009 and 2010, 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 2009 and 2010. Reporting flags are included in the file to assist in accurately excluding records from areas that do not report items when tabulating data by mother's place of residence.

Reporting areas for the 2010 linked file are different from those for the 2010 birth file, as items had to be reported by a state in both 2009 and 2010 to be able to provide complete data. Thus, data for non-comparable items from states that revised in 2010 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 2010 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 with data based on the unrevised certificate. Accordingly, use of the reporting flag for this item will produce 2010 data for the month prenatal care began for the thirty-three and DC revised states which had implemented the revised certificate by January 1st 2009.

Sample SAS program

```
01 DATA work;  
02 INFILE 'C:\VS10LINK.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 quick 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.

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

```

01  DATA work;
02      INFILE 'C:\VS10LINK.USNUMPUB ' LRECL=1259;
03      INPUT
04          restatus 138
05          xmrstate $ 107-108
06          precare 245-246;
07
08      /*Exclude foreign residents*/
09      IF restatus NE 4;
10      /*Select reporting area*/
11      IF xmrstate in ('ID','KY','NY','PA','SC','TN','WA');
12      /*Convert blanks to unknown*/
13      IF precare=. THEN precare=99;
14
15  PROC FREQ;
16      TABLE precare;
17  RUN;

```

Single, Multiple, and Bridged Race

In 1997, the Office of Management and Budget (OMB) issued revised standards requiring Federal collection programs to allow respondents to select *one or more race categories*. In 2010 data, thirty-eight states and DC reported multiple race data, representing 83% of all U.S. births. For the 2010 period linked file, complete data for both 2009 and 2010 births are available from 34 areas, representing 71 percent of all U.S. births.

In 2010, multiple race data were reported on the death certificates of 37 states and DC. In order to provide uniformity and comparability of the data before all or most of the data are available in the new multiple-race format, it was necessary to “bridge” the responses of those for whom more than one race was reported (multiple race) to one, single race. See the “Technical Notes” of [Births: Final Data for 2010](#) and [Deaths: Final Data for 2010](#).

Weighting

A weight is added to the linked numerator file to correct in part for biases in percent of records linked by major characteristics. The number of infant deaths in the linked file are weighted to equal the sum of the linked plus unlinked infant deaths by age at death and state. The formula for computing the weights is as follows:

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

A separate weight is computed for each state of residence of birth and each age at death category (<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

An imputation for not-stated birthweight is added to the data set to reduce potential bias in the computation of birthweight-specific infant mortality rates. 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 3.17 to 0.37 in the numerator file, and from 0.10 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 uses two 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.

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 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 use 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.

Characteristics of Unlinked File

For the 2010 linked file 1.2% 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 2010](#) 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.

Percent of Records Linked

The 2010 linked file for the 50 States and D.C. includes 24,292 linked infant death records and 299 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 24,591.

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 (97.4), Arizona (97.5), California (97.4), Kansas (97.7), and Texas (95.8). 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 are 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, 2010 linked file

| | | | |
|----------------------|-------|----------------|-------|
| United States | 98.8 | Nebraska | 100.0 |
| Alabama | 100.0 | Nevada | 99.0 |
| Alaska | 97.4 | New Hampshire | 100.0 |
| Arizona | 97.5 | New Jersey | 98.2 |
| Arkansas | 98.9 | New Mexico | 99.2 |
| California | 97.4 | New York State | 99.7 |
| Colorado | 100.0 | New York City | 99.8 |
| Connecticut | 99.1 | North Carolina | 99.9 |
| Delaware | 100.0 | North Dakota | 100.0 |
| District of Columbia | 100.0 | Ohio | 98.8 |
| Florida | 100.0 | Oklahoma | 98.4 |
| Georgia | 98.0 | Oregon | 99.6 |
| Hawaii | 100.0 | Pennsylvania | 99.5 |
| Idaho | 100.0 | Rhode Island | 97.7 |
| Illinois | 99.2 | South Carolina | 100.0 |
| Indiana | 99.0 | South Dakota | 100.0 |
| Iowa | 100.0 | Tennessee | 99.9 |

| | | | |
|---------------|-------|----------------|-------|
| Kansas | 97.7 | Texas | 95.8 |
| Kentucky | 98.0 | Utah | 99.6 |
| Louisiana | 98.2 | Vermont | 100.0 |
| Maine | 100.0 | Virginia | 99.7 |
| Maryland | 100.0 | Washington | 99.7 |
| Massachusetts | 99.4 | West Virginia | 100.0 |
| Michigan | 99.1 | Wisconsin | 100.0 |
| Minnesota | 100.0 | Wyoming | 100.0 |
| Mississippi | 99.7 | Puerto Rico | 91.9 |
| Missouri | 98.0 | Virgin Islands | 100.0 |
| Montana | 100.0 | Guam | 100.0 |

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 from 2005 forward, no U.S. geographic detail is identified.

Documents

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 details about multiple cause-of-death coding which, if not understood and analyzed 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, see <http://www.cdc.gov/nchs/icd/icd10.htm> . Many of the instruction manuals listed below are available electronically on the NCHS website. The User Guide for natality and the mortality final report for 2009 included linked 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, ICD-10, 2011. 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, ICD-10, 2011. 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, 2011. 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. NCHS Instruction manual, Part 3A. Hyattsville, Maryland: Public Health Service.
- E. National Center for Health Statistics. Specifications for U.S. Standard Certificate of Death – 2003 Revision. NCHS Instruction manual, Part 4. Hyattsville, Maryland: Public Health Service.
- 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 2012. NCHS Instruction Manual Part 11. Hyattsville, Maryland: Public Health Service.

Instructions manuals are available at:

http://www.cdc.gov/nchs/nvss/instruction_manuals.htm

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

Underlying Cause of Death Data

Mortality statistics by cause of death are compiled from entries on the medical certification portion of the death certificate. 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. 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.

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. Additional information on the underlying cause of death can be found at <http://www.cdc.gov/nchs/data/dvs/mort99doc.pdf> .

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. Additional information on multiple cause data processing can be found at <http://www.cdc.gov/nchs/data/dvs/mort99doc.pdf> .

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 in 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.

2010 Period Linked Birth/Infant Death Data Set

Numerator Files:

United States

| | |
|-------------------|--|
| A. Record count: | 24292 |
| B. Record length: | 1,259 |
| C. Data counts: | a. By occurrence: 24,292 b. By residence: 24,273 c. To foreign residents: 19 |

Territories

| | |
|-------------------|-------|
| A. Record count: | 379 |
| B. Record length: | 1,259 |

Denominator Files:

United States

| | |
|-------------------|---|
| A. Record count: | 4,007,105 |
| B. Record length: | 868 |
| C. Data counts: | a. By occurrence: 4,007,105 b. By residence: 3,999,386 c. To foreign residents: 7,719 |

Territories

| | |
|-------------------|--------|
| A. Record count: | 47,320 |
| B. Record length: | 868 |

Unlinked Files:

United States

| | |
|-------------------|-------|
| A. Record count: | 299 |
| B. Record length: | 1,259 |

Territories

| | |
|-------------------|-------|
| A. Record count: | 28 |
| B. Record length: | 1,259 |

2010 Linked File Public Use Layout

| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|---------|-------------------------|----------------------------|-------|--|--|
| 1-6 | 6 | FILLER | Filler | | | | |
| 7 | 1 | VERSION | Version | | U,R | R U | State used the 2003 version of the US Standard Birth Certificate (Revised) State used the 1989 version of the US Standard Birth Certificate (Unrevised) |
| 8 | 1 | FILLER | Filler | | | | |
| 9 | 1 | LATEREC | Late Record Flag | | U,R | 0 1 | Not late record Late record |
| 10-14 | 5 | FILLER | Filler | | | | |
| 15-18 | 4 | DOB_YY | Birth Year | | U,R | 2009 2010 | 2009 2010 |
| 19-20 | 2 | DOB_MM | Birth Month | | 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 | 1 | FILLER | Filler | | | | |
| 29 | 1 | DOB_WK | Weekday | | U,R | 1 2 3 4 5 6 7 | Sunday Monday Tuesday Wednesday Thursday Friday Saturday |

* For the Version column (Ver) the following codes apply:

R 2003 Version of US Standard Birth Certificate

U 1989 Version of US Standard Birth Certificate

u 1989 Version of US Standard Birth Certificate but this element conforms to the 2003 standards

c Item is sharing flag with a comparable reporting area because a unique flag did not already exist.

| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-----------|--|----------------------------|-------|--------------------------------------|---|
| 30-31 | 2 | OSTATE | Occurrence Territory (This item is available in the territory file only, geographic codes are not available in the U.S. file.) | | U,R | | |
| | | | <u>Territories</u> | | | GU PR VI | Guam Puerto Rico Virgin Islands |
| 32-36 | 5 | FILLER | Filler | | | | |
| 37-39 | 3 | OCNTYFIPS | Occurrence FIPS County (This item is available in the territory file only, geographic codes are not available in the U.S. file.) | | U,R | 000-999 | County of Occurrence |
| 40 | 1 | OCNTYPOP | Occurrence County Pop (This item is available in the territory file only, geographic codes are not available in the U.S. file.) | | U,R | 0 1 2 9 | County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County less than 250,000 |
| 41 | 1 | BFACIL | Birth Place (Revised) | | R | 1 2 3 4 5 6 7 9 | Hospital Freestanding Birth Center Home (intended) Home (not intended) Home (unknown if intended) Clinic / Doctor's Office Other Unknown |
| 42 | 1 | UBFACIL | Birth Place | | U,R | 1 2 3 4 5 9 | Hospital Freestanding Birthing Center Clinic / Doctor's Office Residence Other Unknown |
| 43-58 | 16 | FILLER | Filler | | | | |
| 59 | 1 | BFACIL3 | Birth Place Recode | | U,R | 1 | In Hospital |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-------------|------------------------------------|----------------------------|-------|--|---|
| | | | | | | 2 | Not in Hospital |
| | | | | | | 3 | Unknown or Not Stated |
| 60-86 | 27 | FILLER | Filler | | | | |
| 87 | 1 | MAGE_IMPFLG | Mother's Age Imputed | | U,R | Blank 1 | Age not imputed Age imputed |
| 88 | 1 | MAGE_REPFLG | Reported Age of Mother Flag | | U,R | Blank 1 | Reported age not used Reported age used |
| 89-90 | 2 | MAGER | Mother's Age Recode 41 | | 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 | 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 |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|---------|--|-------------------------|-------|--------|------------------------------|
| | | | | | | 41 | 41 years |
| | | | | | | 42 | 42 years |
| | | | | | | 43 | 43 years |
| | | | | | | 44 | 44 years |
| | | | | | | 45 | 45 years |
| | | | | | | 46 | 46 years |
| | | | | | | 47 | 47 years |
| | | | | | | 48 | 48 years |
| | | | | | | 49 | 49 years |
| | | | | | | 50 | 50 -64 years ` |
| 91-92 | 2 | MAGER14 | Mother's Age Recode 14 | | U,R | 01 | Under 15 Years |
| | | | | | | 03 | 15 years |
| | | | | | | 04 | 16 years |
| | | | | | | 05 | 17 years |
| | | | | | | 06 | 18 years |
| | | | | | | 07 | 19 years |
| | | | | | | 08 | 20-24 years |
| | | | | | | 09 | 25-29 years |
| | | | | | | 10 | 30-34 years |
| | | | | | | 11 | 35-39 years |
| | | | | | | 12 | 40-44 years |
| | | | | | | 13 | 45-49 years |
| | | | | | | 14 | 50-64 years |
| 93 | 1 | MAGER9 | Mother's Age Recode 9 | | U,R | 1 | Under 15 years |
| | | | | | | 2 | 15-19 years |
| | | | | | | 3 | 20-24 years |
| | | | | | | 4 | 25-29 years |
| | | | | | | 5 | 30-34 years |
| | | | | | | 6 | 35-39 years |
| | | | | | | 7 | 40-44 years |
| | | | | | | 8 | 45-49 years |
| | | | | | | 9 | 50-64 years |
| 94-95 | 2 | MBCNTRY | Mother's Birth Country (This item is available in the territory file only, geographic codes are not available in the U.S. file.) | | R,u | AA-ZZ | See Geographic Documentation |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-------------|---|-------------------------|-------|--|---|
| 96-108 | 13 | FILLER | Filler | | | | |
| 109-110 | 2 | MRSTATEPSTL | Mother's Residence Postal State (This item is available in the territory file only, geographic codes are not available in the U.S. file.) | | U,R | 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 | Filler | | | | |
| 114-116 | 3 | MRCNTY | Mother's County of Residence (This item is available in the territory file only, geographic codes are not available in the U.S. file.) | | R,u | 001-999 000 | See Geographic Tables Foreign |
| 117-131 | 15 | FILLER | Filler | | | | |
| 132 | 1 | RCNTY_POP | Population of Residence County (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 | Filler | | | | |
| 137 | 1 | RECTYPE | Record Type (This item is available in the territory file only, geographic codes are not available in the U.S. file.) | | U,R | 1 2 | RESIDENT: State and county of occurrence and residence NONRESIDENT: State and county of occurrence and residence are different. |
| 138 | 1 | RESTATUS | Residence Status <u>United States</u> | | U,R | 1 2 | 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. |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|--------|---|-------------------------|-------|---|--|
| | | | | | | 3 | INTERSTATE NONRESIDENT: State of occurrence and residence are different but both are one of the 50 US states or District of Columbia. |
| | | | | | | 4 | FOREIGN RESIDENT: The state of residence is not one of the 50 US states or District of Columbia. |
| | | | <u>Territories</u> | | | 1 | 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.) |
| | | | | | | 2 | INTRATERRITORY NONRESIDENT: Territory of occurrence and residence are the same but county is different. |
| | | | | | | 2 | INTERTERRITORY RESIDENT: Territory of occurrence and residence are different but both are US Territories. |
| | | | | | | 3 | FOREIGN RESIDENT: The residence is not a US Territory. |
| 139-140 | 2 | MBRACE | Mother's Bridged Race <u>United States and non Puerto Rican Territories</u> 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. | | 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 – 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 & Alaskan Native – bridged multiple race Asian / Pacific Islander – bridged multiple race Not on certificate |
| | | | ** Also includes unrevised states that report multiple race. | | | | |
| | | | <u>Puerto Rico</u> | | | 01 02 00 | White Black Other |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-------|------------------------------|----------------------------|-------|--------|--|
| 141-142 | 2 | MRACE | Mother's Race | | U | | |
| | | | <u>United States</u> | | | 01 | White |
| | | | | | | 02 | Black |
| | | | | | | 03 | American Indian & Alaskan Natives |
| | | | | | | 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. |
| | | | <u>Puerto Rico</u> | | | 01 | White |
| | | | | | | 02 | Black |
| | | | | | | 00 | Other races |
| | | | <u>Guam</u> | | | 01 | White |
| | | | | | | 02 | Black |
| | | | | | | 03 | American Indian & Alaskan Natives |
| | | | | | | 04 | Chinese |
| | | | | | | 05 | Japanese |
| | | | | | | 06 | Hawaiian (includes part Hawaiian) |
| | | | | | | 07 | Filipino |
| | | | | | | 08 | Other Asian or Pacific Islander |
| | | | | | | 58 | Guamanian |
| | | | <u>All other Territories</u> | | | 01 | White |
| | | | | | | 02 | Black |
| | | | | | | 03 | American Indian & Alaskan Natives |
| | | | | | | 04 | Chinese |
| | | | | | | 05 | Japanese |
| | | | | | | 06 | Hawaiian (includes part Hawaiian) |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-----------|---|----------------------------|-------|--------|--|
| | | | | | | 07 | Filipino |
| | | | | | | 08 | Other Asian or Pacific Islander |
| 143 | 1 | MRACEREC | Mother's Race Recode | | U,R | | |
| | | | <u>United States and non-Puerto Rican Territories</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 | Mother's Race Imputed | | U,R | Blank | Mother's race not imputed |
| | | | | | | 1 | Unknown race imputed |
| | | | | | | 2 | All other races, formerly coded 09, imputed. |
| 145-147 | 3 | FILLER | Filler | | | | |
| 148 | 1 | UMHISP | Mother's Hispanic Origin | 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 | Mother's Race/Hispanic Origin | 569 | U,R | 1 | Mexican |
| | | | | | | 2 | Puerto Rican |
| | | | | | | 3 | Cuban |
| | | | | | | 4 | Central or South American |
| | | | | | | 5 | Other and Unknown Hispanic |
| | | | | | | 6 | Non-Hispanic White |
| | | | | | | 7 | Non-Hispanic Black |
| | | | | | | 8 | Non-Hispanic Other Races |
| | | | | | | 9 | Origin unknown or not stated |
| 150-152 | 3 | FILLER | Filler | | | | |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-----------|---|----------------------------|-------|---|--|
| 153 | 1 | MAR | Mother's Marital Status <u>United States & all non-Puerto Rican Territories</u> | 652 | U,R | 1 2 9 | Yes No Unknown or not Stated |
| | | | <u>Puerto Rico</u> | | | 1 2 3 9 | Yes Unmarried parents living together Unmarried parents not living together Unknown or not stated |
| 154 | 1 | MAR_IMP | Mother's Marital Status Imputed | | U,R | Blank 1 | Marital Status not imputed Marital Status imputed |
| 155 | 1 | MEDUC | Mother's Educ –Revised | 571 | R | 1 2 3 4 5 6 7 8 9 | 8 th grade or less 9 th through 12 th grade with no diploma High school graduate or GED completed Some college credit, but not a degree. Associate degree (AA,AS) Bachelor's degree (BA, AB, BS) Master's degree (MA, MS, MEng, MEd, MSW, MBA) Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD) Unknown |
| 156-157 | 2 | UMEDUC | Mother's Educ –Unrevised | 647 | U | 00 01-08 09 10 11 12 13 14 15 16 17 99 | No formal education Years of elementary school 1 year of high school 2 years of high school 3 years of high school 4 years of high school 1 year of college 2 years of college 3 years of college 4 years of college 5 or more years of college Not stated |
| 158 | 1 | MEDUC_REC | Mother's Education Recode | 647 | U | 1 2 | 0 – 8 years 9 – 11 years |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-------------|--|----------------------------|-------|--|---|
| | | | | | | 3 | 12 years |
| | | | | | | 4 | 13 – 15 years |
| | | | | | | 5 | 16 years and over |
| | | | | | | 6 | Not stated |
| 159-174 | 16 | FILLER | Filler | | | | |
| 175 | 1 | FAGERPT_FLG | Father's Reported Age Used | | U,R | Blank 1 | Father's reported age not used Father's reported age used |
| 176-181 | 6 | FILLER | Filler | | | | |
| 182-183 | 2 | FAGECOMB | Father's Combined Age (Revised) c571 | | R | 09-98 99 | Father's combined age in years Unknown or not stated |
| 184-185 | 2 | UFAGECOMB | Father's Combined Age (Unrevised) c647 | | U | 10-98 99 | Father's combined age in years Unknown or not stated |
| 186-187 | 2 | FAGEREC11 | Father's Age Recode 11 | | U,R | 01 02 03 04 05 06 07 08 09 10 11 | Under 15 years 15-19 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years 45-49 years 50-54 years 55-98 years Not stated |
| 188-189 | 2 | FBRACE | Father's Bridged Race <u>United States and non Puerto Rican Territories</u> 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. | | R,u | 01 02 03 04 05 06 07 08 09 10 | White – single race Black – single race American Indian – 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 |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|----------|---|----------------------------|-------|--------|---|
| | | | | | | 11 | Hawaiian – single race |
| | | | | | | 12 | Guamanian – single race |
| | | | | | | 13 | Samoan – single race |
| | | | | | | 14 | Other Pacific Islander – single race |
| | | | | | | 21 | White – bridged multiple race |
| | | | | | | 22 | Black – bridged multiple race |
| | | | | | | 23 | American Indian & Alaskan Native – bridged multiple race |
| | | | | | | 24 | Asian / Pacific Islander – bridged multiple race |
| | | | | | | 99 | Unknown or not stated, also includes states not reporting multiple race |
| | | | | | | Blank | Not on certificate |
| | | | <u>Puerto Rico</u> | | | 01 | White |
| | | | | | | 02 | Black |
| | | | | | | 00 | Other |
| | | | | | | 99 | Unknown or not stated |
| 190 | 1 | FILLER | Filler | | | | |
| 191 | 1 | FRACEREC | Father's Race Recode | | U,R | | |
| | | | <u>United States and non-Puerto Rican Territories</u> | | | 1 | White |
| | | | | | | 2 | Black |
| | | | | | | 3 | American Indian / Alaskan Native |
| | | | | | | 4 | Asian / Pacific Islander |
| | | | | | | 9 | Unknown or not stated |
| | | | <u>Puerto Rico</u> | | | 1 | White |
| | | | | | | 2 | Black |
| | | | | | | 9 | Unknown or not stated |
| | | | | | | 0 | Other (not classified as White or Black) |
| 192-194 | 3 | FILLER | Filler | | | | |
| 195 | 1 | UFHISP | Father's Hispanic Origin | 570 | 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 |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-----------|--|----------------------------|-------|--|---|
| 196 | 1 | FRACEHISP | Father's Race/Hispanic Origin | 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 | Filler | | | | |
| 199-200 | 2 | UFACE | Father's Race (Unrevised) <u>United States</u> | | U | 01 02 03 04 05 06 07 18 28 38 48 58 68 78 99 | White Black American Indian & Alaskan Natives 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 |
| | | | <u>Puerto Rico</u> | | | 01 03 00 99 | White Black Other races not classified white or black Unknown or not stated |
| | | | <u>Guam</u> | | | 01 02 | White Black |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-------------|---|----------------------------|-------|-------------------|---|
| | | | | | | 03 | American Indian & Alaskan Natives |
| | | | | | | 04 | Chinese |
| | | | | | | 05 | Japanese |
| | | | | | | 06 | Hawaiian (includes part Hawaiian) |
| | | | | | | 07 | Filipino |
| | | | | | | 08 | Other Asian or Pacific Islander |
| | | | | | | 58 | Guamanian |
| | | | | | | 99 | Unknown or not stated |
| | | | <u>All other Territories</u> | | | 01 | White |
| | | | | | | 02 | Black |
| | | | | | | 03 | American Indian & Alaskan Natives |
| | | | | | | 04 | Chinese |
| | | | | | | 05 | Japanese |
| | | | | | | 06 | Hawaiian (includes part Hawaiian) |
| | | | | | | 07 | Filipino |
| | | | | | | 08 | Other Asian or Pacific Islander |
| | | | | | | 99 | Unknown or not stated |
| 201-211 | 11 | FILLER | Filler | | | | |
| 212 | 1 | LBO_REC | Live Birth Order Recode | | U,R | 1-7 8 9 | Number of live birth order. 8 or more live births Unknown or not stated |
| 213-216 | 4 | FILLER | Filler | | | | |
| 217 | 1 | TBO_REC | Total Birth Order Recode | | U,R | 1-7 8 9 | Number of total birth order. 8 or more total births Unknown or not stated |
| 218-244 | 27 | FILLER | Filler | | | | |
| 245-246 | 2 | PRECARE | Month Prenatal Care Began (Revised) | | | | |
| | | | 668 | | R | 00 01-10 99 | No prenatal care Month prenatal care began Unknown or not stated |
| 247 | 1 | PRECARE_REC | Month Prenatal Care Began Recode (Revised) | | | | |
| | | | 668 | | R | 1 | 1 st to 3 rd month |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|------------|---|----------------------------|-------|--------|--|
| | | | | | | 2 | 4 th to 6 th month |
| | | | | | | 3 | 7 th to final month |
| | | | | | | 4 | No prenatal care |
| | | | | | | 5 | Unknown or not stated |
| 248-255 | 8 | FILLER | Filler | | | | |
| 256-257 | 2 | MPCB | Month Prenatal Care Began (Unrevised) | 669 | U | 00 | No prenatal care |
| | | | | | | 01-10 | Month prenatal care began |
| | | | | | | 99 | Unknown or not stated |
| 258 | 1 | MPCB_REC6 | Month Prenatal Care Began Recode 6 (Unrevised) | 669 | U | 1 | 1 st to 2 nd month |
| | | | | | | 2 | 3 rd month |
| | | | | | | 3 | 4 th to 6 th month |
| | | | | | | 4 | 7 th to final month |
| | | | | | | 5 | No prenatal care |
| | | | | | | 6 | Unknown or not stated |
| 259 | 1 | MPCB_REC5 | Month Prenatal Care Began Recode 5 (Unrevised) | 669 | U | 1 | 1 st trimester (1 st to 3 rd month) |
| | | | | | | 2 | 2 nd trimester (4 th to 6 th month) |
| | | | | | | 3 | 3 rd trimester (7 th to final month) |
| | | | | | | 4 | No prenatal care |
| | | | | | | 5 | Unknown or not stated |
| 260-269 | 10 | FILLER | Filler | | | | |
| 270-271 | 2 | UPREVIS | Number of Prenatal Visits | 671 | U,R | 00-49 | Number of prenatal visits |
| | | | | | | 99 | Unknown or not stated |
| 272-273 | 2 | PREVIS_REC | Number of Prenatal Visits Recode | 671 | U,R | 01 | No visits |
| | | | | | | 02 | 1 to 2 visits |
| | | | | | | 03 | 3 to 4 visits |
| | | | | | | 04 | 5 to 6 visits |
| | | | | | | 05 | 7 to 8 visits |
| | | | | | | 06 | 9 to 10 visits |
| | | | | | | 07 | 11 to 12 visits |
| | | | | | | 08 | 13 to 14 visits |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|------------|--|----------------------------|-------|--------|---|
| | | | | | | 09 | 15 to 16 visits |
| | | | | | | 10 | 17 to 18 visits |
| | | | | | | 11 | 19 or more visits |
| | | | | | | 12 | Unknown or not stated |
| 274-275 | 2 | FILLER | Filler | | | | |
| 276-277 | 2 | WTGAIN | Weight Gain | 648 | U,R | 00-97 | Weight gain in pounds |
| | | | | | | 98 | 98 pounds and over |
| | | | | | | 99 | Unknown or not stated |
| 278 | 1 | WTGAIN_REC | Weight Gain Recode | 648 | U,R | 1 | Less than 11 pounds |
| | | | | | | 2 | 11 to 20 pounds |
| | | | | | | 3 | 21 to 30 pounds |
| | | | | | | 4 | 31 to 40 pounds |
| | | | | | | 5 | 41 to 98 pounds |
| | | | | | | 9 | Unknown or not stated |
| 279 | 1 | FILLER | Filler | | | | |
| 280 | 1 | DFPC_IMP | Day of Date First Prenatal Care Imputed | | R | Blank | Day of date first prenatal care not imputed |
| | | | | | | 1 | Day of date first prenatal care imputed |
| 281-283 | 3 | FILLER | Filler | | | | |
| 284-285 | 2 | CIG_1 | Cigarettes 1st Trimester | 575 | R | 00-97 | Number of cigarettes daily |
| | | | | | | 98 | 98 or more cigarettes daily |
| | | | | | | 99 | Unknown or not stated |
| 286-287 | 2 | CIG_2 | Cigarettes 2nd Trimester | 575 | R | 00-97 | Number of cigarettes daily |
| | | | | | | 98 | 98 or more cigarettes daily |
| | | | | | | 99 | Unknown or not stated |
| 288-289 | 2 | CIG_3 | Cigarettes 3rd Trimester | 575 | R | 00-97 | Number of cigarettes daily |
| | | | | | | 98 | 98 or more cigarettes daily |
| | | | | | | 99 | Unknown or not stated |
| 290 | 1 | TOBUSE | Tobacco Use | 667 | U | 1 | Yes |
| | | | | | | 2 | No |
| | | | | | | 9 | Unknown or not stated |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-----------|---|----------------------------|-------|---------------------------------|---|
| 291-292 | 2 | CIGS | Cigarettes per Day | | U | 00-97 98 99 | Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated |
| 293 | 1 | UCIG_REC6 | Cigarette Recode (Unrevised) | | U | 0 1 2 3 4 5 6 | 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 |
| 294 | 1 | CIG_REC | Cigarette Recode (Revised) 575 | | R | Y N U | Yes No Unknown or not stated |
| 295-312 | 18 | FILLER | Filler | | | | |
| 313-319 | 7 | | <u>Risk Factors (Revised)</u> The checkbox items indented below follow this code structure: | | R | Y N U | Yes No Unknown or not stated |
| | 313 | 1 | RF_DIAB | Prepregnancy Diabetes | 582 | | |
| | 314 | 1 | RF_GEST | Gestational Diabetes | 583 | | |
| | 315 | 1 | RF_PHYP | Prepregnancy Hypertension | 584 | | |
| | 316 | 1 | RF_GHYP | Gestational Hypertension | 585 | | |
| | 317 | 1 | RF_ECLAM | Hypertension Eclampsia | 586 | | |
| | 318 | 1 | RF_PPTERM | Previous Preterm Birth | 587 | | |
| | 319 | 1 | RF_PPOUTC | Poor Pregnancy Outcome | 588 | | |
| 320-323 | 4 | FILLER | Filler | | | | |
| 324 | 1 | RF_CESAR | Previous Cesareans | 593 | R | Y N U | Yes No Unknown or not stated |
| 325-326 | 2 | RF_CESARN | Previous Cesareans Num | 594 | R | 00 01-30 99 | None Number of previous cesareans Unknown or not stated |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|--|--|----------------------------|-------|--------|-----------------------|
| 327-330 | 4 | FILLER | Filler | | | | |
| 331-337 | 7 | <u>Risk Factors</u> | | | U,R | | |
| | | | The checkbox items indented below follow this structure: | | | 1 | Yes |
| | | | | | | 2 | No |
| 331 | 1 | URF_DIAB | Diabetes | 684 | | 9 | Unknown |
| 332-334 | 3 | FILLER | Filler | | | | |
| 335 | 1 | URF_CHYPER | Cronic Hypertension | 688 | | | |
| 336 | 1 | URF_PHYPER | Prepregnacny Associated Hypertension | 689 | | | |
| 337 | 1 | URF_ECLAM | Eclampsia | 690 | | | |
| 338-350 | 13 | FILLER | Filler | | | | |
| 351-354 | 4 | <u>Obstetric Procedures (Revised)</u> | | | R | | |
| | | | The checkbox items indented below follow this structure: | | | Y | Yes |
| | | | | | | N | No |
| | | | | | | U | Unknown or not stated |
| 351 | 1 | OP_CERV | Cervical Cerclage | 601 | | | |
| 352 | 1 | OP_TOCOL | Tocolysis | 602 | | | |
| 353 | 1 | OP_ECVS | Successful External Cephalic Version | 603 | | | |
| 354 | 1 | OP_ECVF | Failed External Cephalic Version | 604 | | | |
| 355-356 | 2 | FILLER | Filler | | | | |
| 357-359 | 3 | <u>Obstetric Procedures</u> | | | U,R | | |
| | | | The checkbox items indented below follow this structure: | | | 1 | Yes |
| | | | | | | 2 | No |
| 357 | 1 | UOP_INDUC | Induction of Labor | 703 | | 8 | Not on certificate |
| 358 | 1 | FILLER | Filler | | | 9 | Unknown or not stated |
| 359 | 1 | UOP_TOCOL | Tocolysis | 705 | | | |
| 360-361 | 2 | FILLER | Filler | | | | |
| 362-364 | 3 | <u>Onset of Labor</u> | | | R | Y | Yes |
| | | | The checkbox items indented below follow this structure: | | | N | No |
| | | | | | | U | Unknown or not stated |
| 362 | 1 | ON_RUPTR | Premature Rupture of Membrane | 605 | | | |
| 363 | 1 | ON_PRECIP | Precipitous Labor | 606 | | | |
| 364 | 1 | ON_PROL | Prolonged Labor | 607 | | | |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|---|----------------------------|----------------------------|-------|------------------|--|
| 365-373 | 9 | <u>Characteristics of Labor and Delivery (Revised)</u> The checkbox items indented below follow this structure: | | | R | Y N U | Yes No Unknown or not stated |
| 365 | 1 | LD_INDL | Induction of Labor | 608 | | | |
| 366 | 1 | LD_AUGM | Augmentation of Labor | 609 | | | |
| 367 | 1 | LD_NVPR | Non-Vertex Presentation | 610 | | | |
| 368 | 1 | LD_STER | Steroids | 611 | | | |
| 369 | 1 | LD_ANTI | Antibiotics | 612 | | | |
| 370 | 1 | LD_CHOR | Chorioamnionitis | 613 | | | |
| 371 | 1 | LD_MECS | Meconium Staining | 614 | | | |
| 372 | 1 | LD_FINT | Fetal Intolerance | 615 | | | |
| 373 | 1 | LD_ANES | Anesthesia | 616 | | | |
| 374 | 1 | FILLER | Filler | | | | |
| 375-384 | 10 | <u>Complications of Labor and Delivery</u> The checkbox items indented below follow this structure: | | | U,R | 1 2 8 9 | Yes No Not on certificate Unknown or not stated |
| 375 | 1 | ULD_MECO | Meconium | 712 | | | |
| 376-380 | 5 | FILLER | Filler | | | | |
| 381 | 1 | ULD_PRECIP | Precipitous Labor | 718 | | | |
| 382-383 | 2 | FILLER | Filler | | | | |
| 384 | 1 | ULD_BREECH | Breech | 721 | | | |
| 385-389 | 5 | FILLER | Filler | | | | |
| 390-394 | 5 | <u>Method of Delivery (Revised)</u> | | | | | |
| 390 | 1 | ME_ATTf | Attempted Forceps | 617 | R | Y N U | Yes No Unknown |
| 391 | 1 | ME_ATTv | Attempted Vacuum | 618 | R | Y N U | Yes No Unknown |
| 392 | 1 | ME_PRES | Fetal Presentation | 619 | R | 1 2 3 9 | Cephalic Breech Other Unknown or not stated |
| 393 | 1 | ME_ROUT | Route & Method of Delivery | 620 | R | 1 | Spontaneous |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition | |
|----------|-----|--|---|----------------------------|-------|--------|--|-----|
| | | | | | | 2 | Forceps | |
| | | | | | | 3 | Vacuum | |
| | | | | | | 4 | Cesarean | |
| | | | | | | 9 | Unknown or not stated | |
| 394 | 1 | ME_TRIAL | Trial of Labor Attempted | 621 | R | Y | Yes | |
| | | | | | | N | No | |
| | | | | | | X | Not applicable | |
| | | | | | | U | Unknown or not stated | |
| 395-400 | 6 | <u>Method of Delivery (Unrevised)</u> | | | | | | |
| | | The checkbox items indented below follow this structure: | | | | | 1 | Yes |
| | | | | | | 2 | No | |
| 395 | 1 | UME_VAG | Vaginal | 730 | U | 9 | Unknown or not stated | |
| 396 | 1 | UME_VBAC | Vaginal after C-Section | 731 | U | | | |
| 397 | 1 | UME_PRIMC | Primary C-Section | 732 | U | | | |
| 398 | 1 | UME_REPEC | Repeat C-Section | 733 | U | | | |
| 399 | 1 | UME_FORCP | Forceps | 734 | U,R | | | |
| 400 | 1 | UME_VAC | Vacuum | 735 | U,R | | | |
| 401 | 1 | RDMETH_REC | Delivery Method Recode (Revised) | | R | 1 | Vaginal (excludes vaginal after previous C-section) | |
| | | | 679 | | | 2 | Vaginal after previous c-section | |
| | | | | | | 3 | Primary C-section | |
| | | | | | | 4 | Repeat C-section | |
| | | | | | | 5 | Vaginal (unknown if previous c-section) (2003 Standard only) | |
| | | | | | | 6 | C-section (unknown if previous c-section) (2003 Standard Only) | |
| | | | | | | 9 | Not stated | |
| 402 | 1 | UDMETH_REC | Delivery Method Recode (Unrevised) | | U | 1 | Vaginal (excludes vaginal after previous C-section) | |
| | | | 680 | | | 2 | Vaginal after previous c-section | |
| | | | | | | 3 | Primary C-section | |
| | | | | | | 4 | Repeat C-section | |
| | | | | | | 9 | Not stated | |
| 403 | 1 | DMETH_REC | Delivery Method Recode Combined | | U,R | 1 | Vaginal | |
| | | | | | | 2 | C-Section | |
| | | | | | | 9 | Unknown | |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|----------|--|----------------------------|-------|----------------------------|--|
| 404-409 | 6 | FILLER | Filler | | | | |
| 410 | 1 | ATTEND | Attendant | | U,R | 1 2 3 4 5 9 | Doctor of Medicine (MD) Doctor of Osteopathy (DO) Certified Nurse Midwife (CNM) Other Midwife Other Unknown or not stated |
| 411-414 | 4 | FILLER | Filler | | | | |
| 415 | 2 | APGAR5 | Five Minute APGAR Score 574 | | U,R | 00-10 99 | A score of 0-10 Unknown or not stated |
| 417 | 1 | APGAR5R | Five Minute APGAR Recode 574 | | U,R | 1 2 3 4 5 | A score of 0-3 A score of 4-6 A score of 7-8 A score of 9-10 Unknown or not stated |
| 418-422 | 5 | FILLER | Filler | | | | |
| 423 | 1 | DPLURAL | Plurality Recode | | U,R | 1 2 3 4 5 | Single Twin Triplet Quadruplet Quintuplet or higher |
| 424 | 1 | FILLER | Filler | | | | |
| 425 | 1 | IMP_PLUR | Plurality Imputed | | U,R | Blank 1 | Plurality is imputed Plurality is not imputed |
| 426-435 | 10 | FILLER | Filler | | | | |
| 436 | 1 | SEX | Sex of Infant | | U,R | M F | Male Female |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-----------|---|----------------------------|--------|--|---|
| 437 | 1 | IMP_SEX | Imputed Sex | | U,R | Blank 1 | Infant Sex not Imputed Infant Sex is Imputed |
| 438-439 | 2 | DLMP_MM | Last Normal Menses Month | | U,R | 01 02 03 04 05 06 07 08 09 10 11 12 99 | January February March April May June July August September October November December Unknown or not stated |
| 440-441 | 2 | FILLER | Filler | | | | |
| 442-445 | 4 | DLMP_YY | Date of Last Normal Menses Began | | U,R | nnnn 9999 | Year of last normal menses Unknown or not stated |
| 446-447 | 2 | ESTGEST | Obstetric Gestation Est. Clinical Gestation Est. | 573 573 | R U | 0-98 17-47 99 | Reported Obstetric estimate of gestation Accepted range of Clinical estimate of gestation Unknown or not stated |
| 448-450 | 3 | FILLER | Filler | | | | |
| 451-452 | 2 | COMBGEST | Gestation – Detail in Weeks | 670 | U,R | 17-47 99 | 17 th through 47 th week of Gestation Unknown |
| 453-454 | 2 | GESTREC10 | Gestation Recode 10 | | U,R | 01 02 03 04 05 06 07 08 09 | Under 20 weeks 20-27 weeks 28-31 weeks 32-33 weeks 34-36 weeks 37-38 weeks 39 weeks 40 weeks 41 weeks |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|------------|---|-------------------------|-------|--|---|
| | | | | | | 10 99 | 42 weeks and over Unknown |
| 455 | 1 | GESTREC3 | Gestation Recode 3 | | U,R | 1 2 3 | Under 37 weeks 37 weeks and over Not stated |
| 456 | 1 | OBGEST_FLG | Clinical Estimate of Gestation Used Flag | | U,R | Blank 1 | Clinical Estimate is not used Clinical Estimate is used |
| 457 | 1 | GEST_IMP | Gestation Imputed Flag | | U,R | Blank 1 | Gestation is not imputed Gestation is imputed |
| 458-466 | 9 | FILLER | Filler | | | | |
| 467-470 | 4 | BRTHWGT | Imputed Birth Weight | | U,R | 0227-8165 9999 | Number of grams Not stated birth weight |
| 471-472 | 2 | BWTR14 | Birth Weight Recode 14 | | U,R | 01 02 03 04 05 06 07 08 09 10 11 12 13 14 | 499 grams or less 500 – 749 grams 750 - 999 grams 1000 - 1249 grams 1250 – 1499 grams 1500 – 1999 grams 2000 – 2499 grams 2500 – 2999 grams 3000 – 3400 grams 3500 – 3999 grams 4000 – 4499 grams 4500 – 4999 grams 5000 – 8165 grams Not Stated |
| 473 | 1 | BWTR4 | Birth Weight Recode 4 | | U,R | 1 2 3 4 | 1499 grams or less 1500 – 2499 grams 2500 grams or more Unknown or not stated |
| 474 | 1 | FILLER | Filler | | | | |
| 475 | 1 | BWTIMP | Imputed Birth Weight Flag | | U,R | Blank | Birth Weight is not imputed |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|---|---------------------------------------|----------------------------|-------|--------|----------------------------|
| | | | | | | 1 | Birth Weight is imputed |
| 476-482 | 7 | <u>Abnormal Conditions of the Newborn (Revised)</u> The checkbox items indented below follow this structure: | | | R | | |
| | | | | | | Y | Yes, Complication reported |
| | | | | | | N | No Complication reported |
| | | | | | | U | Unknown or not stated |
| | | | | | | Blank | Not on Certificate |
| 476 | 1 | AB_AVEN1 | Assisted Ventilation | 628 | | | |
| 477 | 1 | AB_AVEN6 | Assisted Ventilation > 6 hrs | 629 | | | |
| 478 | 1 | AB_NICU | Admission to NICU | 630 | | | |
| 479 | 1 | AB_SURF | Surfactant | 631 | | | |
| 480 | 1 | AB_ANTI | Antibiotics | 632 | | | |
| 481 | 1 | AB_SEIZ | Seizures | 633 | | | |
| 482 | 1 | AB_BINJ | Birth Injury | 634 | | | |
| 483-491 | 9 | FILLER | Filler | | | | |
| 492-503 | 12 | <u>Congenital Anomalies of the Newborn (Revised)</u> The checkbox items indented below follow this structure: | | | R | | |
| | | | | | | Y | Yes, anomaly reported |
| | | | | | | N | No, anomaly not reported |
| | | | | | | U | Unknown |
| | | | | | | Blank | Not on certificate |
| 492 | 1 | CA_ANEN | Anencephaly | 635 | | | |
| 493 | 1 | CA_MNSB | Meningomyelocele / Spina Bifida | 636 | | | |
| 494 | 1 | CA_CCHD | Cyanotic Congenital Heart Disease | 637 | | | |
| 495 | 1 | CA_CDH | Congenital Diaphragmatic Hernia | 638 | | | |
| 496 | 1 | CA_OMP | Omphalocele | 639 | | | |
| 497 | 1 | CA_GAST | Gastrochisis | 640 | | | |
| 498 | 1 | CA_LIMB | Limb Reduction Defect | 641 | | | |
| 499 | 1 | CA_CLEFT | Cleft Lip w/ or w/o Cleft Palate | 642 | | | |
| 500 | 1 | CA_CLPAL | Cleft Palate alone | 643 | | | |
| 501 | 1 | CA_DOWN | Downs Syndrome | 644 | R | C | Confirmed |
| | | | | | | P | Pending |
| | | | | | | N | No |
| | | | | | | U | Unknown |
| | | | | | | Blank | Not on certificate |
| 502 | 1 | CA_DISOR | Suspected Chromosomal Disorder | 645 | R | C | Confirmed |
| | | | | | | P | Pending |
| | | | | | | N | No |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|---------|---|--------------------|--------------------------------|-------|----------------------|---|
| | | | | | | U Blank | Unknown Not on certificate |
| 503 | 1 | CA_HYPO | Hypospadias | 646 | R | Y N U Blank | Yes, anomaly reported No, anomaly not reported Unknown Not on certificate |
| 504-523 | 20 | <u>Congenital Anomalies of the Newborn</u> The checkbox items indented below follow this structure: | | | U,R | 1 2 9 Blank | Anomaly reported Anomaly not reported Anomaly not classifiable Not on certificate |
| | 504 | 1 | UCA_ANEN | Anencephalus | 752 | | |
| | 505 | 1 | UCA_SPINA | Spina Bifida / Meningocele | 753 | | |
| | 506-512 | 7 | FILLER | Filler | | | |
| | 513 | 1 | UCA_OMPHA | Omphalocele / Gastroschisis | 760 | | |
| | 514-517 | 4 | FILLER | Filler | | | |
| | 518 | 1 | UCA_CELFTLP | Cleft Lip / Palate | 765 | | |
| | 519-522 | 4 | FILLER | Filler | | | |
| | 523 | 1 | UCA_DOWNS | Downs Syndrome | 771 | | |
| 524-568 | 45 | FILLER | Filler | | | | |
| 569-771 | 203 | <u>Flag File for Reporting Flags</u> The reporting flags indented below follow this coding structure: | | | | 0 1 2 3 | Not reported either year Reported both years Reported in 2008/Not reported in 2009 Not reported in 2008/Reported in 2009 |
| | 569 | 1 | F_MORIGIN | Origin of Mother | | U,R | |
| | 570 | 1 | F_FORIGIN | Origin of Father | | U,R | |
| | 571 | 1 | F_MEDUC | Education of Mother | | R | |
| | 572 | 1 | FILLER | Filler | | | |
| | 573 | 1 | F_CLINEST | Clinical Estimate of Gestation | | U,R | |
| | 574 | 1 | F_APGAR5 | Five minute APGAR | | U,R | |
| | 575 | 1 | F_TOBACO | Tobacco use | | R | |
| | 576-581 | 6 | FILLER | Filler | | | |
| | 582 | 1 | F_RF_PDIAB | Prepregnancy Diabetes | | R | |
| | 583 | 1 | F_RF_GDIAB | Gestational Diabetes | | R | |
| | 584 | 1 | F_RF_PHYPER | Prepregnancy Hypertension | | R | |
| | 585 | 1 | F_RF_GHYPER | Gestational Hypertension | | R | |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|---------------|--------------------------------------|----------------------------|-------|--------|------------|
| 586 | 1 | F_RF_ECLAMP | Hypertension Eclampsia | | R | | |
| 587 | 1 | F_RF_PPB | Previous Preterm Birth | | R | | |
| 588 | 1 | F_RF_PPO | Poor Pregnancy outcomes | | R | | |
| 589-592 | 4 | FILLER | Filler | | | | |
| 593 | 1 | F_RF_CESAR | Previous Cesarean | | R | | |
| 594 | 1 | F_RF_NCESAR | Number of Previous Cesareans | | R | | |
| 595-600 | 6 | FILLER | Filler | | | | |
| 601 | 1 | F_OB_CERVIC | Cervical Cerclage | | R | | |
| 602 | 1 | F_OB_TOCO | Tocolysis | | R | | |
| 603 | 1 | F_OB_SUCC | Successful External Cephalic Version | | R | | |
| 604 | 1 | F_OB_FAIL | Failed External Cephalic Version | | R | | |
| 605 | 1 | F_OL_RUPTURE | Premature Rupture of the Membranes | | R | | |
| 606 | 1 | F_OL_PRECIP | Precipitous Labor | | R | | |
| 607 | 1 | F_OL_PROLONG | Prolonged Labor | | R | | |
| 608 | 1 | F_LD_INDUCT | Induction of Labor | | R | | |
| 609 | 1 | F_LD_AUGMENT | Augmentation of Labor | | R | | |
| 610 | 1 | F_LD_NVRTX | Non Vertex Presentation | | R | | |
| 611 | 1 | F_LD_STERIODS | Steroids | | R | | |
| 612 | 1 | F_LD_ANTIBIO | Antibiotics | | R | | |
| 613 | 1 | F_LD_CHORIO | Chorioamnionitis | | R | | |
| 614 | 1 | F_LD_MECON | Meconium Staining | | R | | |
| 615 | 1 | F_LD_FINTOL | Fetal Intolerance | | R | | |
| 616 | 1 | F_LD_ANESTH | Anesthesia | | R | | |
| 617 | 1 | F_MD_ATTFOR | Attempted Forceps | | R | | |
| 618 | 1 | F_MD_ATTVAC | Attempted Vacuum | | R | | |
| 619 | 1 | F_MD_PRESENT | Fetal Presentation | | R | | |
| 620 | 1 | F_MD_ROUTE | Final Route and Method of Delivery | | R | | |
| 621 | 1 | F_MD_TRIAL | Trial of Labor Attempted | | R | | |
| 622-627 | 6 | FILLER | Filler | | | | |
| 628 | 1 | F_AB_VENT | Assisted Ventilation | | R | | |
| 629 | 1 | F_AB_VENT6 | Assisted Ventilation >6 hrs | | R | | |
| 630 | 1 | F_AB_NIUC | Admission to NICU | | R | | |
| 631 | 1 | F_AB_SURFAC | Surfactant | | R | | |
| 632 | 1 | F_AB_ANTIBIO | Antibiotics | | R | | |
| 633 | 1 | F_AB_SEIZ | Seizures | | R | | |
| 634 | 1 | F_AB_INJ | Birth Injury | | R | | |
| 635 | 1 | F_CA_ANEN | Anencephaly | | R | | |
| 636 | 1 | F_CA_MENIN | Meningomyelocele/Spina Bifida | | R | | |
| 637 | 1 | F_CA_HEART | Cyanotic Congenital Heart Disease | | R | | |
| 638 | 1 | F_CA_HERNIA | Congenital Diaphragmatic Hernia | | R | | |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|----------------|--|----------------------------|-------|--------|------------|
| 639 | 1 | F_CA_OMPHA | Omphalocele | | R | | |
| 640 | 1 | F_CA_GASTRO | Gastroschisis | | R | | |
| 641 | 1 | F_CA_LIMB | Limb Reduction Defect | | R | | |
| 642 | 1 | F_CA_CLEFTLP | Cleft Lip with or without Cleft Palate | | R | | |
| 643 | 1 | F_CA_CLEFT | Cleft Plate Alone | | R | | |
| 644 | 1 | F_CA_DOWNS | Down Syndrome | | R | | |
| 645 | 1 | F_CA_CHROM | Suspected Chromosomal Disorder | | R | | |
| 646 | 1 | F_CA_HYPOS | Hypospadias | | R | | |
| 647 | 1 | F_MED | Mother's Education | | U | | |
| 648 | 1 | F_WTGAIN | Weight Gain | | U,R | | |
| 649-666 | 18 | FILLER | Filler | | | | |
| 667 | 1 | F_TOBAC | Tobacco Use | | U | | |
| 668 | 1 | F_MPCB | Month Prenatal Care Began | | R | | |
| 669 | 1 | F_MPCB_U | Month Prenatal Care Began | | U | | |
| 670-683 | 14 | FILLER | Filler | | | | |
| 684 | 1 | F_URF_DIABETES | Diabetes | | U,R | | |
| 685-687 | 3 | FILLER | Filler | | | | |
| 688 | 1 | F_URF_CHYPER | Chronic Hypertension | | U,R | | |
| 689 | 1 | F_URF_PHYPER | Prepregnancy Hypertension | | U,R | | |
| 690 | 1 | F_URF_ECLAMP | Eclampsia | | U,R | | |
| 691-702 | 12 | FILLER | Filler | | | | |
| 703 | 1 | F_UOB_INDUCT | Induction | | U,R | | |
| 704 | 1 | FILLER | Filler | | | | |
| 705 | 1 | F_UOB_TOCOL | Tocolysis | | U,R | | |
| 706-711 | 6 | FILLER | Filler | | | | |
| 712 | 1 | F_ULD_MECONIUM | Meconium | | U,R | | |
| 713-717 | 5 | FILLER | Filler | | | | |
| 718 | 1 | F_ULD_PRECIP | Precipitous Labor | | U,R | | |
| 719-720 | 2 | FILLER | Filler | | | | |
| 721 | 1 | F_ULD_BREECH | Breech | | U,R | | |
| 722-729 | 8 | FILLER | Filler | | | | |
| 730 | 1 | F_U_VAGINAL | Vaginal | | U | | |
| 731 | 1 | F_U_VBAC | VBAC | | U | | |
| 732 | 1 | F_U_PRIMAC | Primary C | | U | | |
| 733 | 1 | F_U_REPEAC | Repeat C | | U | | |
| 734 | 1 | F_U_FORCEP | Forceps | | U,R | | |
| 735 | 1 | F_U_VACUUM | Vacuum | | U,R | | |
| 736-751 | 16 | FILLER | Filler | | | | |
| 752 | 1 | F_UCA_ANEN | Anencephalus | | U,R | | |
| 753 | 1 | F_UCA_SPINA | Spina Bifida | | U,R | | |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|---------------|--|----------------------------|-------|--------|------------|
| 754-760 | 7 | FILLER | Filler | | | | |
| 761 | 1 | F_UCA_OMPHALO | Omphalocele/Gastroschisis | | | U,R | |
| 762-765 | 4 | FILLER | Filler | | | | |
| 766 | 1 | F_UCA_CLEFTLP | Cleft Lip/Palate | | | U,R | |
| 767-770 | 4 | FILLER | Filler | | | | |
| 771 | 1 | F_UCA_DOWNS | Downs Syndrome | | | U,R | |
| 772-867 | 96 | FILLER | Filler | | | | |
| 868 | 1 | FLGND | Flag indicating records in both numerator and denominator file | | | | |

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

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|--------|----------------------|----------------------------|-------|---|---|
| 869-871 | 3 | FILLER | Filler | | | | |
| 872-874 | 3 | AGED | Age at Death in Days | | | 000-365 | Number of days |
| 875 | 1 | AGER5 | Infant age recode 5 | | | 1 2 3 4 5 | Under 1 hour 1 – 23 hours 1 – 6 days 7 – 27 days (late neonatal) 28 days and over (postneonatal) |
| 876-877 | 2 | AGER22 | Infant age recode 22 | | | Blank 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 | Age 1 year and over or not stated Under 1 hour (includes not stated hours and minutes) 1 – 23 hours 1 day (includes not stated days) 2 days 3 days 4 days 5 days 6 days 7 days (includes not stated weeks) 14 – 20 days 21 – 27 days 1 month (includes not stated months) 2 months 3 months 4 months 5 months 6 months 7 months 8 months 9 months 10 months 11 months |
| 878 | 1 | MANNER | Manner of Death | | | 1 2 3 4 5 6 | Accident Suicide Homicide Pending investigation Could not determine Self-inflicted |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|---|--|-------------------------|-------|---|---|
| | | | | | | 7 Blank | Natural Not specified |
| 879 | 1 | DISPO | Method of Disposition | | | B C O U | Burial Cremation Other Unknown |
| 880 | 1 | AUTOPSY | Autopsy | | | Y N U | Yes No Unknown |
| 881 | 1 | FILLER | Filler | | | | |
| 882 | 1 | PLACE | Place of injury for causes W00-Y34, except Y06.- and Y07.- | | | 0 1 2 3 4 5 6 7 8 9 Blank | Home Residential institution School, other institution and public administrative area Sports and athletics area Street and highway Trade and service area Industrial and construction area Farm Other Specified Places Unspecified place Cause other than W00-Y34, except Y06.- and Y07.- |
| 883 | 1 | FILLER | Filler | | | | |
| 884-891 | | <u>UNDERLYING CAUSE OF DEATH</u> | | | | | |
| 884-887 | 4 | UCOD | ICD Code (10 th Revision) See the <u>International Classification of Diseases, 1992</u> Revision, Volume 1. | | | | |
| 888 | 1 | FILLER | Filler | | | | |
| 889-891 | 3 | UCODR130 | 130 Infant Cause Recode | | | 001-158 | Code Range |
| 892 | 1 | FILLER | Filler | | | | |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|----------|-----|-----------------------------------|---|---|--------------------|-----------|------------|
| 893-900 | 8 | RECWT | Record Weight (no weights computed for possessions file) | | | 1.XXXXXXX | |
| 901-902 | 2 | FILLER | Filler | | | | |
| 903-1148 | 246 | <u>MULTIPLE CONDITIONS</u> | | | | | |
| 903-904 | 2 | EANUM | Number of Entity-Axis Conditions | | | 00-20 | Code range |
| 905-1044 | 140 | ENTITY | Entity-Axis Conditions Space has been provided for a maximum of 20 conditions. Each condition takes 7 positions in the record. The 7 th position will be blank. Records that do not have 20 conditions are blank in the unused area. | | | | |
| | | | Position 1: | Part/line number on certificate | | | |
| | | | 1 | ... | Part I, line 1 (a) | | |
| | | | 2 | ... | Part I, line 2 (b) | | |
| | | | 3 | ... | Part I, line 3 (c) | | |
| | | | 4 | ... | Part I, line 4 (d) | | |
| | | | 5 | ... | Part I, line 5 (e) | | |
| | | | 6 | ... | Part II, | | |
| | | | Position 2: | Sequence of condition within part/line | | | |
| | | | 1-7 | ... | Code range | | |
| | | | Position 3 – 6: | Condition code See ICD-10 for a complete list of codes | | | |
| 905-911 | 7 | | 1 st Condition | | | | |
| 912-918 | 7 | | 2 nd Condition | | | | |
| 919-925 | 7 | | 3 rd Condition | | | | |
| 926-932 | 7 | | 4 th Condition | | | | |
| 933-939 | 7 | | 5 th Condition | | | | |
| 940-946 | 7 | | 6 th Condition | | | | |
| 947-953 | 7 | | 7 th Condition | | | | |
| 954-960 | 7 | | 8 th Condition | | | | |
| 961-967 | 7 | | 9 th Condition | | | | |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|-----------|-----|--------|--|----------------------------|-------|--------|------------|
| 968-974 | 7 | | 10 th Condition | | | | |
| 975-981 | 7 | | 11 th Condition | | | | |
| 982-988 | 7 | | 12 th Condition | | | | |
| 989-995 | 7 | | 13 th Condition | | | | |
| 996-1002 | 7 | | 14 th Condition | | | | |
| 1003-1009 | 7 | | 15 th Condition | | | | |
| 1010-1016 | 7 | | 16 th Condition | | | | |
| 1017-1023 | 7 | | 17 th Condition | | | | |
| 1024-1030 | 7 | | 18 th Condition | | | | |
| 1031-1037 | 7 | | 19 th Condition | | | | |
| 1038-1044 | 7 | | 20 th Condition | | | | |
| 1045-1046 | 2 | FILLER | Filler | | | | |
| 1047-1048 | 2 | RANUM | Number of Record-Axis Conditions | | | 00-20 | Code range |
| 1049-1148 | 100 | RECORD | Record-Axis Conditions Space has been provided for a maximum of 20 conditions. Each condition takes 5 positions in the record. The 5 th position will be blank. Records that do not have 20 conditions are blank in the unused area. | | | | |
| | | | Positions 1 – 4: Condition Code See ICD-10 for a complete list of codes | | | | |
| 1049-1053 | 5 | | 1 st Condition | | | | |
| 1054-1058 | 5 | | 2 nd Condition | | | | |
| 1059-1063 | 5 | | 3 rd Condition | | | | |
| 1064-1068 | 5 | | 4 th Condition | | | | |
| 1069-1073 | 5 | | 5 th Condition | | | | |
| 1074-1078 | 5 | | 6 th Condition | | | | |
| 1079-1083 | 5 | | 7 th Condition | | | | |
| 1084-1088 | 5 | | 8 th Condition | | | | |
| 1089-1093 | 5 | | 9 th Condition | | | | |
| 1094-1098 | 5 | | 10 th Condition | | | | |
| 1099-1103 | 5 | | 11 th Condition | | | | |
| 1104-1108 | 5 | | 12 th Condition | | | | |
| 1109-1113 | 5 | | 13 th Condition | | | | |
| 1114-1118 | 5 | | 14 th Condition | | | | |
| 1119-1123 | 5 | | 15 th Condition | | | | |

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|-----------|-----|------------|------------------------------|----------------------------|-------|--------|---|
| 1124-1128 | 5 | | 16 th Condition | | | | |
| 1129-1133 | 5 | | 17 th Condition | | | | |
| 1134-1138 | 5 | | 18 th Condition | | | | |
| 1139-1143 | 5 | | 19 th Condition | | | | |
| 1144-1148 | 5 | | 20 th Condition | | | | |
| 1149-1150 | 2 | FILLER | Filler | | | | |
| 1151 | 1 | D_RESTATUS | <u>Death Resident Status</u> | | | | |
| | | | 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 |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|-----------|-----|-----------|---|-------------------------|-------|----------------|---|
| | | | | | | | Territory of Occurrence and Residence are the same, but County-equivalent is different. |
| | | | | | 3 | | INTERTERRITORY NONRESIDENTS |
| | | | | | 4 | | Territory of occurrence and residence are different, but both are a Territory. |
| | | | | | 4 | | FOREIGN RESIDENTS |
| | | | 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 | <u>State of Occurrence (FIPS) of Death</u> (This item is available in the territory file only, geography codes are not available in the US file.) | | | PR VI GU | Puerto Rico Virgin Islands Guam |
| 1154-1155 | 3 | CNTOCFIPD | <u>County of Occurrence (FIPS) of Death</u> 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, geography codes are not available in the US file.) | | | 001-nnn | Code range |
| 1157-1159 | 3 | FILLER | Filler | | | | |
| 1160-1161 | 2 | STRESFIPD | <u>State of Residence (FIPS)</u> (This item is available in the territory file only, geography codes are not available in the US file.) | | | | |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|-----------|-----|--------|--|-------------------------|-------|----------------------|---|
| | | | Territories | | | PR VI GU | Puerto Rico Virgin Islands Guam |
| | | | Foreign residents | | | CC MX CU YY | Canada Mexico Cuban Remainder of 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 |
| 1162-1163 | 2 | FILLER | Filler | | | | |
| 1164-1165 | 2 | DRCNTY | <u>State/Country of Residence of Death Recode</u> (This item is available in the territory file only, geography codes are not available in the US 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 |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|-----------|-----|----------|---|----------------------------|-------|--------------------------------------|---|
| | | | Guam Occurrence | | | GU US ZZ | Guam U.S. resident. Also considered a resident of Guam. Foreign residents |
| 1166-1167 | 3 | CNTYRFPD | <u>County of Residence (FIPS) of Death</u> This item is available in the territory file only, geography codes are not available in the US file. | | | 000 001-999 | Foreign residents Code range County less than 250,000 population |
| 1169-1181 | 13 | FILLER | Filler | | | | |
| 1182 | 1 | CNTRSPPD | <u>Population Size of County of Residence of Death</u> This item is available in the territory file only, geography codes are not available in the US 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 |
| 1183-185 | 3 | FILLER | Filler | | | | |
| 1186 | 1 | HOSPPD | <u>Place of Death and Decedent's Status</u> | | | 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 | <u>Day of Week of Death</u> | | | 1 2 3 4 5 6 7 9 | Sunday Monday Tuesday Wednesday Thursday Friday Saturday Unknown |

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| Position | Len | Field | Description | Reporting Flag Position | Vers* | Values | Definition |
|-----------|-----|--------|-----------------------|----------------------------|-------|--|--|
| 1188-1191 | 4 | DTHYR | <u>Death Year</u> | | | 2010 | 2010 |
| 1192-1257 | 66 | FILLER | Filler | | | | |
| 1258-1259 | 2 | DOD_MM | <u>Month of Death</u> | | | 01 02 03 04 05 06 07 08 09 10 11 12 | January February March April May June July August September October November December |

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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, 2010 Period Data.
(Residence of birth is of the mother)

| State | Live births | | Infant deaths | | | |
|-------------------|-------------|-----------|-----------------------|----------------------|------------------------|-----------------------|
| | Occurrence | Residence | Unweighted Occurrence | Unweighted Residence | Weighted 1/ Occurrence | Weighted 1/ Residence |
| United States /2 | 4007105 | 3999386 | 24292 | 24273 | 24591 | 24572 |
| Alabama | 58783 | 60050 | 517 | 523 | 518 | 524 |
| Alaska | 11366 | 11471 | 35 | 40 | 36 | 41 |
| Arizona | 88090 | 87477 | 512 | 511 | 521 | 520 |
| Arkansas | 37536 | 38540 | 265 | 277 | 267 | 279 |
| California | 510980 | 510198 | 2373 | 2368 | 2422 | 2417 |
| Colorado | 66822 | 66355 | 410 | 391 | 411 | 392 |
| Connecticut | 38539 | 37708 | 194 | 199 | 195 | 200 |
| Delaware | 11682 | 11364 | 81 | 85 | 81 | 85 |
| Dist of Columbia | 13790 | 9165 | 115 | 70 | 115 | 70 |
| Florida | 214962 | 214590 | 1409 | 1392 | 1414 | 1397 |
| Georgia | 135411 | 133947 | 829 | 837 | 841 | 849 |
| Hawaii | 18948 | 18988 | 111 | 115 | 114 | 118 |
| Idaho | 22799 | 23198 | 98 | 110 | 99 | 111 |
| Illinois | 161758 | 165200 | 1054 | 1116 | 1067 | 1130 |
| Indiana | 84794 | 83940 | 627 | 632 | 635 | 640 |
| Iowa | 38574 | 38719 | 169 | 188 | 169 | 188 |
| Kansas | 41598 | 40649 | 244 | 249 | 247 | 252 |
| Kentucky | 53565 | 55784 | 341 | 374 | 347 | 380 |
| Louisiana | 62531 | 62379 | 468 | 461 | 478 | 471 |
| Maine | 12814 | 12970 | 74 | 70 | 74 | 70 |
| Maryland | 71739 | 73801 | 470 | 504 | 470 | 504 |
| Massachusetts | 73275 | 72865 | 323 | 316 | 327 | 320 |
| Michigan | 113509 | 114531 | 796 | 809 | 803 | 816 |
| Minnesota | 68269 | 68610 | 321 | 311 | 322 | 312 |
| Mississippi | 39177 | 40036 | 375 | 384 | 376 | 385 |
| Missouri | 77588 | 76759 | 548 | 494 | 560 | 505 |
| Montana | 12066 | 12060 | 65 | 71 | 66 | 72 |
| Nebraska | 26242 | 25918 | 139 | 135 | 140 | 136 |
| Nevada | 35671 | 35934 | 187 | 190 | 195 | 198 |
| New Hampshire | 13032 | 12874 | 44 | 50 | 44 | 50 |
| New Jersey | 103932 | 106922 | 486 | 505 | 494 | 513 |
| New Mexico | 27021 | 27850 | 131 | 144 | 143 | 156 |
| New York | 121290 | 123678 | 644 | 689 | 649 | 694 |
| New York City | 124791 | 120697 | 592 | 548 | 592 | 548 |
| North Carolina | 123468 | 122350 | 872 | 865 | 874 | 867 |
| North Dakota | 10470 | 9104 | 62 | 62 | 62 | 62 |
| Ohio | 139858 | 139128 | 1093 | 1063 | 1104 | 1074 |
| Oklahoma | 52347 | 53238 | 380 | 391 | 388 | 399 |
| Oregon | 45904 | 45540 | 240 | 225 | 241 | 226 |
| Pennsylvania | 142724 | 143321 | 1069 | 1032 | 1073 | 1036 |
| Rhode Island | 11843 | 11177 | 87 | 80 | 87 | 80 |
| South Carolina | 55599 | 58342 | 404 | 427 | 405 | 428 |
| South Dakota | 12382 | 11811 | 90 | 84 | 90 | 84 |
| Tennessee | 84533 | 79495 | 689 | 626 | 689 | 626 |
| Texas | 392764 | 386118 | 2312 | 2292 | 2394 | 2373 |
| Utah | 53395 | 52258 | 268 | 253 | 269 | 254 |
| Vermont | 5775 | 6223 | 24 | 26 | 24 | 26 |
| Virginia | 101202 | 103002 | 687 | 700 | 690 | 703 |
| Washington | 86507 | 86539 | 386 | 388 | 386 | 388 |
| West Virginia | 20757 | 20470 | 164 | 150 | 164 | 150 |
| Wisconsin | 67719 | 68487 | 386 | 400 | 386 | 400 |
| Wyoming | 6914 | 7556 | 32 | 51 | 33 | 52 |
| Foreign Residents | - | 7719 | - | 19 | - | 19 |
| Puerto Rico | 42247 | 42153 | 318 | 314 | 318 | 314 |
| Virgin Islands | 1651 | 1600 | 12 | 15 | 12 | 15 |
| Guam | 3422 | 3414 | 49 | 48 | 49 | 48 |

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, 2010 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..... | 3,999,386 | 6,557 | 10,636 | 11,672 | 13,443 | 16,498 | 63,512 | 204,483 | 3,671,997 | 588 |
| Infant deaths..... | 24,572 | 5,489 | 4,516 | 1,495 | 864 | 699 | 1,556 | 2,041 | 7,821 | 90 |
| Infant mortality rate.... | 6.14 | 837.12 | 424.60 | 128.08 | 64.27 | 42.37 | 24.50 | 9.98 | 2.13 | 153.06 |
| Male | | | | | | | | | | |
| Live births..... | 2,046,935 | 3,275 | 5,398 | 6,004 | 6,909 | 8,294 | 31,026 | 93,711 | 1,892,003 | 315 |
| Infant deaths..... | 13,718 | 2,813 | 2,665 | 950 | 496 | 381 | 786 | 1,045 | 4,517 | 65 |
| Infant mortality rate.... | 6.70 | 858.93 | 493.70 | 158.23 | 71.79 | 45.94 | 25.33 | 11.15 | 2.39 | 206.35 |
| Female | | | | | | | | | | |
| Live births..... | 1,952,451 | 3,282 | 5,238 | 5,668 | 6,534 | 8,204 | 32,486 | 110,772 | 1,779,994 | 273 |
| Infant deaths..... | 10,854 | 2,677 | 1,851 | 544 | 369 | 319 | 769 | 996 | 3,303 | 25 |
| Infant mortality rate.... | 5.56 | 815.66 | 353.38 | 95.98 | 56.47 | 38.88 | 23.67 | 8.99 | 1.86 | 91.58 |
| White | | | | | | | | | | |
| Both sexes | | | | | | | | | | |
| Live births..... | 3,069,315 | 3,656 | 6,199 | 7,178 | 8,663 | 10,760 | 43,061 | 138,335 | 2,851,023 | 440 |
| Infant deaths..... | 15,998 | 3,088 | 2,730 | 953 | 592 | 469 | 1,113 | 1,407 | 5,586 | 60 |
| Infant mortality rate.... | 5.21 | 844.64 | 440.39 | 132.77 | 68.34 | 43.59 | 25.85 | 10.17 | 1.96 | 136.36 |
| Male | | | | | | | | | | |
| Live births..... | 1,571,470 | 1,808 | 3,196 | 3,718 | 4,516 | 5,511 | 21,124 | 63,692 | 1,467,670 | 235 |
| Infant deaths..... | 8,897 | 1,568 | 1,595 | 608 | 345 | 260 | 561 | 712 | 3,207 | 42 |
| Infant mortality rate.... | 5.66 | 867.26 | 499.06 | 163.53 | 76.40 | 47.18 | 26.56 | 11.18 | 2.19 | 178.72 |
| Female | | | | | | | | | | |
| Live births..... | 1,497,845 | 1,848 | 3,003 | 3,460 | 4,147 | 5,249 | 21,937 | 74,643 | 1,383,353 | 205 |
| Infant deaths..... | 7,100 | 1,520 | 1,135 | 345 | 247 | 209 | 552 | 695 | 2,379 | 18 |
| Infant mortality rate.... | 4.74 | 822.51 | 377.96 | 99.71 | 59.56 | 39.82 | 25.16 | 9.31 | 1.72 | * |
| Black | | | | | | | | | | |
| Both sexes | | | | | | | | | | |
| Live births..... | 636,425 | 2,524 | 3,877 | 3,809 | 3,969 | 4,622 | 15,967 | 49,591 | 551,955 | 111 |
| Infant deaths..... | 7,134 | 2,068 | 1,533 | 463 | 221 | 191 | 358 | 514 | 1,762 | 23 |
| Infant mortality rate.... | 11.21 | 819.33 | 395.41 | 121.55 | 55.68 | 41.32 | 22.42 | 10.36 | 3.19 | 207.21 |
| Male | | | | | | | | | | |
| Live births..... | 323,956 | 1,262 | 1,913 | 1,933 | 1,974 | 2,214 | 7,599 | 22,170 | 284,829 | 62 |
| Infant deaths..... | 3,975 | 1,059 | 913 | 295 | 122 | 99 | 180 | 272 | 1,018 | 17 |
| Infant mortality rate.... | 12.27 | 839.14 | 477.26 | 152.61 | 61.80 | 44.72 | 23.69 | 12.27 | 3.57 | * |
| Female | | | | | | | | | | |
| Live births..... | 312,469 | 1,262 | 1,964 | 1,876 | 1,995 | 2,408 | 8,368 | 27,421 | 267,126 | 49 |
| Infant deaths..... | 3,159 | 1,009 | 619 | 168 | 99 | 92 | 179 | 242 | 745 | 6 |
| Infant mortality rate.... | 10.11 | 799.52 | 315.17 | 89.55 | 49.62 | 38.21 | 21.39 | 8.83 | 2.79 | * |

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child: United States, 2010 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..... | 46,760 | 65 | 118 | 111 | 127 | 193 | 716 | 2,248 | 43,178 | 4 |
| Infant deaths..... | 387 | 53 | 56 | 14 | 14 | 11 | 26 | 29 | 182 | 0 |
| Infant mortality rate.... | 8.28 | 815.38 | 474.58 | * | * | * | 36.31 | 12.90 | 4.22 | * |
| Male | | | | | | | | | | |
| Live births..... | 23,672 | 38 | 57 | 64 | 66 | 100 | 391 | 1,023 | 21,930 | 3 |
| Infant deaths..... | 217 | 30 | 30 | 10 | 9 | 4 | 14 | 9 | 109 | 0 |
| Infant mortality rate.... | 9.17 | 789.47 | 526.32 | * | * | * | * | * | 4.97 | * |
| Female | | | | | | | | | | |
| Live births..... | 23,088 | 27 | 61 | 47 | 61 | 93 | 325 | 1,225 | 21,248 | 1 |
| Infant deaths..... | 170 | 23 | 26 | 4 | 5 | 7 | 12 | 19 | 73 | 0 |
| Infant mortality rate.... | 7.36 | 851.85 | 426.23 | * | * | * | * | * | 3.44 | * |
| Asian or Pacific Islander | | | | | | | | | | |
| Both sexes | | | | | | | | | | |
| Live births..... | 246,886 | 312 | 442 | 574 | 684 | 923 | 3,768 | 14,309 | 225,841 | 33 |
| Infant deaths..... | 1,053 | 281 | 197 | 65 | 36 | 28 | 58 | 91 | 290 | 7 |
| Infant mortality rate.... | 4.27 | 900.64 | 445.70 | 113.24 | 52.63 | 30.34 | 15.39 | 6.36 | 1.28 | * |
| Male | | | | | | | | | | |
| Live births..... | 127,837 | 167 | 232 | 289 | 353 | 469 | 1,912 | 6,826 | 117,574 | 15 |
| Infant deaths..... | 628 | 155 | 126 | 37 | 19 | 18 | 31 | 52 | 183 | 6 |
| Infant mortality rate.... | 4.91 | 928.14 | 543.10 | 128.03 | * | * | 16.21 | 7.62 | 1.56 | * |
| Female | | | | | | | | | | |
| Live births..... | 119,049 | 145 | 210 | 285 | 331 | 454 | 1,856 | 7,483 | 108,267 | 18 |
| Infant deaths..... | 425 | 125 | 71 | 27 | 17 | 10 | 26 | 40 | 107 | 1 |
| Infant mortality rate.... | 3.57 | 862.07 | 338.10 | 94.74 | * | * | 14.01 | 5.35 | 0.99 | * |

* 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, 2009 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 | 3,999,386 | 29,581 | 48,861 | 61,159 | 339,189 | 2,204,378 | 763,191 | 328,954 | 218,794 | 5,279 |
| Infant deaths | 24,572 | 11,052 | 1,936 | 968 | 2,426 | 5,442 | 1,339 | 630 | 591 | 187 |
| Infant mortality rate | 6.14 | 373.62 | 39.62 | 15.83 | 7.15 | 2.47 | 1.75 | 1.92 | 2.70 | 35.42 |
| Less than 2,500 grams | | | | | | | | | | |
| Live births | 326,801 | 28,438 | 37,164 | 40,864 | 108,625 | 89,948 | 10,675 | 4,807 | 5,712 | 568 |
| Infant deaths | 16,661 | 11,038 | 1,852 | 817 | 1,404 | 1,116 | 178 | 78 | 104 | 73 |
| Infant mortality rate | 50.98 | 388.14 | 49.83 | 19.99 | 12.93 | 12.41 | 16.67 | 16.23 | 18.21 | 128.52 |
| Less than 500 grams | | | | | | | | | | |
| Live births | 6,557 | 6,285 | 193 | 7 | 12 | 15 | 7 | 2 | - | 36 |
| Infant deaths | 5,489 | 5,305 | 129 | 5 | 10 | 10 | 2 | 2 | - | 26 |
| Infant mortality rate | 837.12 | 844.07 | 668.39 | * | * | * | * | * | - | 722.22 |
| 500-749 grams | | | | | | | | | | |
| Live births | 10,636 | 9,324 | 1,141 | 62 | 43 | 26 | 3 | 1 | 5 | 31 |
| Infant deaths | 4,516 | 4,178 | 282 | 14 | 13 | 7 | - | - | 2 | 19 |
| Infant mortality rate | 424.60 | 448.09 | 247.15 | * | * | * | - | - | * | * |
| 750-999 grams | | | | | | | | | | |
| Live births | 11,672 | 7,274 | 3,810 | 305 | 116 | 97 | 25 | 10 | 14 | 21 |
| Infant deaths | 1,495 | 1,114 | 313 | 32 | 12 | 16 | 1 | - | 2 | 4 |
| Infant mortality rate | 128.08 | 153.15 | 82.15 | 104.92 | * | * | * | - | * | * |
| 1,000-1,249 grams | | | | | | | | | | |
| Live births | 13,443 | 3,105 | 7,423 | 1,456 | 750 | 414 | 130 | 62 | 85 | 18 |
| Infant deaths | 864 | 278 | 390 | 83 | 66 | 31 | 8 | 2 | 3 | 3 |
| Infant mortality rate | 64.27 | 89.53 | 52.54 | 57.01 | 88.00 | 74.88 | * | * | * | * |
| 1,250-1,499 grams | | | | | | | | | | |
| Live births | 16,498 | 900 | 8,768 | 3,580 | 2,071 | 736 | 126 | 114 | 170 | 33 |
| Infant deaths | 699 | 78 | 310 | 132 | 113 | 52 | 4 | 1 | 5 | 5 |
| Infant mortality rate | 42.37 | 86.67 | 35.36 | 36.87 | 54.56 | 70.65 | * | * | * | * |
| 1,500-1,999 grams | | | | | | | | | | |
| Live births | 63,512 | 867 | 11,871 | 18,790 | 22,225 | 7,455 | 956 | 436 | 795 | 117 |
| Infant deaths | 1,556 | 64 | 323 | 334 | 464 | 278 | 41 | 19 | 23 | 9 |
| Infant mortality rate | 24.50 | 73.82 | 27.21 | 17.78 | 20.88 | 37.29 | 42.89 | * | 28.93 | * |
| 2,000-2,499 grams | | | | | | | | | | |
| Live births | 204,483 | 683 | 3,958 | 16,664 | 83,408 | 81,205 | 9,428 | 4,182 | 4,643 | 312 |
| Infant deaths | 2,041 | 21 | 105 | 216 | 727 | 722 | 121 | 54 | 69 | 6 |
| Infant mortality rate | 9.98 | 30.75 | 26.53 | 12.96 | 8.72 | 8.89 | 12.83 | 12.91 | 14.86 | * |
| 2,500-2,999 grams | | | | | | | | | | |
| Live births | 744,711 | 1,143 | 4,151 | 8,656 | 114,665 | 458,858 | 90,350 | 35,046 | 30,852 | 990 |
| Infant deaths | 2,828 | 14 | 51 | 88 | 598 | 1,518 | 293 | 122 | 136 | 8 |
| Infant mortality rate | 3.80 | * | 12.29 | 10.17 | 5.22 | 3.31 | 3.24 | 3.48 | 4.41 | * |
| 3,000-3,499 grams | | | | | | | | | | |
| Live births | 1,567,643 | - | 4,939 | 7,591 | 79,643 | 949,668 | 312,092 | 124,352 | 87,539 | 1,819 |
| Infant deaths | 3,101 | - | 25 | 38 | 296 | 1,831 | 471 | 218 | 209 | 12 |
| Infant mortality rate | 1.98 | - | 5.06 | 5.01 | 3.72 | 1.93 | 1.51 | 1.75 | 2.39 | * |

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, 2009 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 | 1,055,553 | - | 2,607 | 3,386 | 29,306 | 561,333 | 266,970 | 120,158 | 70,800 | 993 |
| Infant deaths | 1,456 | - | 7 | 19 | 89 | 773 | 319 | 147 | 101 | - |
| Infant mortality rate | 1.38 | - | * | * | 3.04 | 1.38 | 1.19 | 1.22 | 1.43 | - |
| 4,000-4,499 grams | | | | | | | | | | |
| Live births | 263,145 | - | - | 559 | 5,902 | 125,153 | 72,634 | 38,258 | 20,373 | 266 |
| Infant deaths | 344 | - | - | 2 | 27 | 165 | 65 | 51 | 34 | 1 |
| Infant mortality rate | 1.31 | - | - | * | 4.57 | 1.32 | 0.89 | 1.33 | 1.67 | * |
| 4,500-4,999 grams | | | | | | | | | | |
| Live births | 36,729 | - | - | 85 | 903 | 17,168 | 9,611 | 5,735 | 3,187 | 40 |
| Infant deaths | 72 | - | - | 2 | 9 | 31 | 10 | 11 | 6 | 2 |
| Infant mortality rate | 1.96 | - | - | * | * | 1.81 | * | * | * | * |
| 5,000 grams or more | | | | | | | | | | |
| Live births | 4,216 | - | - | 18 | 145 | 2,250 | 859 | 598 | 331 | 15 |
| Infant deaths | 20 | - | - | 2 | 2 | 8 | 3 | 3 | 1 | 1 |
| Infant mortality rate | 4.74 | - | - | * | * | * | * | * | * | * |
| Not stated | | | | | | | | | | |
| Live births | 588 | - | - | - | - | - | - | - | - | 588 |
| Infant deaths | 90 | - | - | - | - | - | - | - | - | 90 |
| Infant mortality rate | 153.06 | - | - | - | - | - | - | - | - | 153.06 |
| White | | | | | | | | | | |
| Total | | | | | | | | | | |
| Live births | 3,069,315 | 17,508 | 32,662 | 42,540 | 246,316 | 1,690,578 | 600,646 | 262,243 | 172,995 | 3,827 |
| Infant deaths | 15,998 | 6,522 | 1,243 | 694 | 1,701 | 3,835 | 963 | 485 | 438 | 117 |
| Infant mortality rate | 5.21 | 372.52 | 38.06 | 16.31 | 6.91 | 2.27 | 1.60 | 1.85 | 2.53 | 30.57 |
| Less than 2,500 grams | | | | | | | | | | |
| Live births | 217,852 | 16,808 | 24,575 | 28,420 | 74,813 | 58,797 | 7,110 | 3,124 | 3,876 | 329 |
| Infant deaths | 10,352 | 6,515 | 1,192 | 588 | 971 | 779 | 129 | 64 | 75 | 39 |
| Infant mortality rate | 47.52 | 387.61 | 48.50 | 20.69 | 12.98 | 13.25 | 18.14 | 20.49 | 19.35 | 118.54 |
| Less than 500 grams | | | | | | | | | | |
| Live births | 3,656 | 3,503 | 100 | 5 | 9 | 7 | 6 | 2 | - | 24 |
| Infant deaths | 3,088 | 2,987 | 66 | 4 | 8 | 2 | 2 | 2 | - | 16 |
| Infant mortality rate | 844.64 | 852.70 | 660.00 | * | * | * | * | * | - | * |
| 500-749 grams | | | | | | | | | | |
| Live births | 6,199 | 5,356 | 734 | 43 | 29 | 17 | 3 | 1 | 4 | 12 |
| Infant deaths | 2,730 | 2,522 | 171 | 12 | 10 | 5 | - | - | 1 | 8 |
| Infant mortality rate | 440.39 | 470.87 | 232.97 | * | * | * | - | - | * | * |
| 750-999 grams | | | | | | | | | | |
| Live births | 7,178 | 4,413 | 2,361 | 223 | 73 | 63 | 20 | 8 | 8 | 9 |
| Infant deaths | 953 | 715 | 189 | 26 | 8 | 11 | 1 | - | - | 2 |
| Infant mortality rate | 132.77 | 162.02 | 80.05 | 116.59 | * | * | * | - | - | * |
| 1,000-1,249 grams | | | | | | | | | | |
| Live births | 8,663 | 1,996 | 4,747 | 985 | 479 | 266 | 90 | 37 | 56 | 7 |
| Infant deaths | 592 | 184 | 273 | 61 | 43 | 21 | 4 | 2 | 3 | 1 |
| Infant mortality rate | 68.34 | 92.18 | 57.51 | 61.93 | 89.77 | 78.95 | * | * | * | * |

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, 2009 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 | 10,760 | 572 | 5,766 | 2,287 | 1,361 | 495 | 71 | 76 | 113 | 19 |
| Infant deaths | 469 | 54 | 195 | 100 | 78 | 35 | 2 | - | 3 | 2 |
| Infant mortality rate | 43.59 | 94.41 | 33.82 | 43.73 | 57.31 | 70.71 | * | - | * | * |
| 1,500-1,999 grams | | | | | | | | | | |
| Live births | 43,061 | 531 | 8,282 | 12,858 | 14,883 | 4,949 | 650 | 291 | 547 | 70 |
| Infant deaths | 1,113 | 38 | 222 | 236 | 339 | 203 | 33 | 19 | 17 | 5 |
| Infant mortality rate | 25.85 | 71.56 | 26.81 | 18.35 | 22.78 | 41.02 | 50.77 | * | * | * |
| 2,000-2,499 grams | | | | | | | | | | |
| Live births | 138,335 | 437 | 2,585 | 12,019 | 57,979 | 53,000 | 6,270 | 2,709 | 3,148 | 188 |
| Infant deaths | 1,407 | 14 | 76 | 149 | 485 | 502 | 86 | 41 | 51 | 4 |
| Infant mortality rate | 10.17 | * | 29.40 | 12.40 | 8.37 | 9.47 | 13.72 | 15.13 | 16.20 | * |
| 2,500-2,999 grams | | | | | | | | | | |
| Live births | 519,143 | 700 | 2,626 | 5,823 | 83,309 | 317,715 | 62,244 | 24,389 | 21,699 | 638 |
| Infant deaths | 1,901 | 7 | 30 | 62 | 418 | 1,015 | 194 | 77 | 93 | 5 |
| Infant mortality rate | 3.66 | * | 11.42 | 10.65 | 5.02 | 3.19 | 3.12 | 3.16 | 4.29 | * |
| 3,000-3,499 grams | | | | | | | | | | |
| Live births | 1,199,243 | - | 3,462 | 5,218 | 59,804 | 726,798 | 238,604 | 96,141 | 67,860 | 1,356 |
| Infant deaths | 2,234 | - | 16 | 26 | 225 | 1,301 | 330 | 173 | 154 | 10 |
| Infant mortality rate | 1.86 | - | * | 4.98 | 3.76 | 1.79 | 1.38 | 1.80 | 2.27 | * |
| 3,500-3,999 grams | | | | | | | | | | |
| Live births | 871,364 | - | 1,999 | 2,574 | 22,823 | 463,618 | 220,867 | 99,947 | 58,738 | 798 |
| Infant deaths | 1,106 | - | 4 | 14 | 59 | 586 | 241 | 119 | 83 | - |
| Infant mortality rate | 1.27 | - | * | * | 2.59 | 1.26 | 1.09 | 1.19 | 1.41 | - |
| 4,000-4,499 grams | | | | | | | | | | |
| Live births | 226,023 | - | - | 428 | 4,735 | 107,166 | 62,680 | 33,071 | 17,722 | 221 |
| Infant deaths | 274 | - | - | 1 | 22 | 127 | 56 | 40 | 26 | 1 |
| Infant mortality rate | 1.21 | - | - | * | 4.65 | 1.19 | 0.89 | 1.21 | 1.47 | * |
| 4,500-4,999 grams | | | | | | | | | | |
| Live births | 31,772 | - | - | 63 | 723 | 14,658 | 8,417 | 5,062 | 2,814 | 35 |
| Infant deaths | 55 | - | - | 1 | 6 | 22 | 10 | 8 | 6 | 1 |
| Infant mortality rate | 1.73 | - | - | * | * | 1.50 | * | * | * | * |
| 5,000 grams or more | | | | | | | | | | |
| Live births | 3,478 | - | - | 14 | 109 | 1,826 | 724 | 509 | 286 | 10 |
| Infant deaths | 16 | - | - | 2 | 1 | 5 | 3 | 3 | 1 | 1 |
| Infant mortality rate | * | - | - | * | * | * | * | * | * | * |
| Not stated | | | | | | | | | | |
| Live births | 440 | - | - | - | - | - | - | - | - | 440 |
| Infant deaths | 60 | - | - | - | - | - | - | - | - | 60 |
| Infant mortality rate | 136.36 | - | - | - | - | - | - | - | - | 136.36 |
| Black | | | | | | | | | | |
| Total | | | | | | | | | | |
| Live births | 636,425 | 10,434 | 13,021 | 14,544 | 69,057 | 347,160 | 105,610 | 43,871 | 31,621 | 1,107 |
| Infant deaths | 7,134 | 3,891 | 579 | 219 | 583 | 1,273 | 296 | 116 | 116 | 60 |
| Infant mortality rate | 11.21 | 372.92 | 44.47 | 15.06 | 8.44 | 3.67 | 2.80 | 2.64 | 3.67 | 54.20 |

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, 2009 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 | 84,359 | 10,056 | 10,212 | 9,702 | 25,600 | 23,122 | 2,683 | 1,307 | 1,478 | 199 |
| Infant deaths | 5,349 | 3,885 | 551 | 189 | 363 | 256 | 40 | 10 | 22 | 31 |
| Infant mortality rate | 63.41 | 386.34 | 53.96 | 19.48 | 14.18 | 11.07 | 14.91 | * | 14.88 | 155.78 |
| Less than 500 grams | | | | | | | | | | |
| Live births | 2,524 | 2,418 | 83 | 2 | 3 | 6 | 1 | - | - | 11 |
| Infant deaths | 2,068 | 1,996 | 54 | 1 | 2 | 6 | - | - | - | 9 |
| Infant mortality rate | 819.33 | 825.48 | 650.60 | * | * | * | - | - | - | * |
| 500-749 grams | | | | | | | | | | |
| Live births | 3,877 | 3,485 | 340 | 15 | 9 | 8 | - | - | 1 | 19 |
| Infant deaths | 1,533 | 1,421 | 95 | 1 | 2 | 2 | - | - | 1 | 11 |
| Infant mortality rate | 395.41 | 407.75 | 279.41 | * | * | * | - | - | * | * |
| 750-999 grams | | | | | | | | | | |
| Live births | 3,809 | 2,460 | 1,203 | 64 | 33 | 28 | 3 | - | 6 | 12 |
| Infant deaths | 463 | 346 | 101 | 4 | 4 | 4 | - | - | 2 | 2 |
| Infant mortality rate | 121.55 | 140.65 | 83.96 | * | * | * | - | - | * | * |
| 1,000-1,249 grams | | | | | | | | | | |
| Live births | 3,969 | 931 | 2,236 | 367 | 222 | 121 | 34 | 23 | 28 | 7 |
| Infant deaths | 221 | 77 | 99 | 19 | 17 | 5 | 4 | - | - | - |
| Infant mortality rate | 55.68 | 82.71 | 44.28 | * | * | * | * | - | - | - |
| 1,250-1,499 grams | | | | | | | | | | |
| Live births | 4,622 | 279 | 2,416 | 1,021 | 563 | 201 | 47 | 35 | 47 | 13 |
| Infant deaths | 191 | 17 | 97 | 26 | 30 | 13 | 1 | 1 | 2 | 3 |
| Infant mortality rate | 41.32 | * | 40.15 | 25.47 | 53.29 | * | * | * | * | * |
| 1,500-1,999 grams | | | | | | | | | | |
| Live births | 15,967 | 276 | 2,848 | 4,635 | 5,651 | 1,967 | 226 | 125 | 200 | 39 |
| Infant deaths | 358 | 22 | 81 | 82 | 101 | 56 | 7 | - | 5 | 4 |
| Infant mortality rate | 22.42 | 79.71 | 28.44 | 17.69 | 17.87 | 28.47 | * | - | * | * |
| 2,000-2,499 grams | | | | | | | | | | |
| Live births | 49,591 | 207 | 1,086 | 3,598 | 19,119 | 20,791 | 2,372 | 1,124 | 1,196 | 98 |
| Infant deaths | 514 | 6 | 24 | 56 | 207 | 169 | 28 | 9 | 12 | 2 |
| Infant mortality rate | 10.36 | * | 22.10 | 15.56 | 10.83 | 8.13 | 11.80 | * | * | * |
| 2,500-2,999 grams | | | | | | | | | | |
| Live births | 159,573 | 378 | 1,220 | 2,252 | 23,179 | 98,540 | 19,305 | 7,576 | 6,844 | 279 |
| Infant deaths | 754 | 6 | 17 | 15 | 135 | 421 | 84 | 39 | 33 | 3 |
| Infant mortality rate | 4.73 | * | * | * | 5.82 | 4.27 | 4.35 | 5.15 | 4.82 | * |
| 3,000-3,499 grams | | | | | | | | | | |
| Live births | 247,027 | - | 1,151 | 1,872 | 14,679 | 148,880 | 47,917 | 18,577 | 13,608 | 343 |
| Infant deaths | 674 | - | 8 | 9 | 52 | 415 | 109 | 39 | 39 | 2 |
| Infant mortality rate | 2.73 | - | * | * | 3.54 | 2.79 | 2.27 | 2.10 | 2.87 | * |
| 3,500-3,999 grams | | | | | | | | | | |
| Live births | 118,582 | - | 438 | 600 | 4,664 | 63,273 | 28,810 | 12,805 | 7,855 | 137 |
| Infant deaths | 258 | - | 3 | 3 | 23 | 138 | 55 | 20 | 15 | - |
| Infant mortality rate | 2.18 | - | * | * | 4.93 | 2.18 | 1.91 | 1.56 | * | - |

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, 2009 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 | 23,280 | - | - | 98 | 791 | 11,466 | 6,112 | 3,182 | 1,600 | 31 |
| Infant deaths | 57 | - | - | 1 | 5 | 33 | 8 | 4 | 6 | - |
| Infant mortality rate | 2.45 | - | - | * | * | 2.88 | * | * | * | - |
| 4,500-4,999 grams | | | | | | | | | | |
| Live births | 3,044 | - | - | 17 | 118 | 1,609 | 709 | 377 | 211 | 3 |
| Infant deaths | 14 | - | - | 1 | 3 | 6 | - | 3 | - | 1 |
| Infant mortality rate | * | - | - | * | * | * | - | * | - | * |
| 5,000 grams or more | | | | | | | | | | |
| Live births | 449 | - | - | 3 | 26 | 270 | 74 | 47 | 25 | 4 |
| Infant deaths | 4 | - | - | - | 1 | 3 | - | - | - | - |
| Infant mortality rate | * | - | - | - | * | * | - | - | - | - |
| Not stated | | | | | | | | | | |
| Live births | 111 | - | - | - | - | - | - | - | - | 111 |
| Infant deaths | 23 | - | - | - | - | - | - | - | - | 23 |
| Infant mortality rate | 207.21 | - | - | - | - | - | - | - | - | 207.21 |
| American Indian ¹ | | | | | | | | | | |
| Total | | | | | | | | | | |
| Live births | 46,760 | 331 | 692 | 835 | 4,491 | 24,506 | 8,617 | 3,970 | 3,250 | 68 |
| Infant deaths | 387 | 121 | 28 | 13 | 56 | 109 | 32 | 11 | 16 | - |
| Infant mortality rate | 8.28 | 365.56 | 40.46 | * | 12.47 | 4.45 | 3.71 | * | * | - |
| Less than 2,500 grams | | | | | | | | | | |
| Live births | 3,578 | 312 | 421 | 485 | 1,155 | 953 | 113 | 52 | 78 | 9 |
| Infant deaths | 205 | 120 | 25 | 10 | 25 | 18 | 2 | 1 | 3 | - |
| Infant mortality rate | 57.29 | 384.62 | 59.38 | * | 21.65 | * | * | * | * | - |
| Less than 500 grams | | | | | | | | | | |
| Live births | 65 | 63 | 2 | - | - | - | - | - | - | - |
| Infant deaths | 53 | 51 | 2 | - | - | - | - | - | - | - |
| Infant mortality rate | 815.38 | 809.52 | * | - | - | - | - | - | - | - |
| 500-749 grams | | | | | | | | | | |
| Live births | 118 | 96 | 19 | 3 | - | - | - | - | - | - |
| Infant deaths | 56 | 49 | 6 | 1 | - | - | - | - | - | - |
| Infant mortality rate | 474.58 | 510.42 | * | * | - | - | - | - | - | - |
| 750-999 grams | | | | | | | | | | |
| Live births | 111 | 71 | 32 | 6 | 1 | 1 | - | - | - | - |
| Infant deaths | 14 | 10 | 2 | 2 | - | - | - | - | - | - |
| Infant mortality rate | * | * | * | * | - | - | - | - | - | - |
| 1,000-1,249 grams | | | | | | | | | | |
| Live births | 127 | 33 | 62 | 11 | 13 | 5 | 2 | 1 | - | - |
| Infant deaths | 14 | 6 | 3 | - | 3 | 2 | - | - | - | - |
| Infant mortality rate | * | * | * | - | * | * | - | - | - | - |
| 1,250-1,499 grams | | | | | | | | | | |
| Live births | 193 | 16 | 103 | 40 | 25 | 4 | 2 | - | 2 | 1 |
| Infant deaths | 11 | 2 | 3 | 1 | 3 | 1 | 1 | - | - | - |
| Infant mortality rate | * | * | * | * | * | * | * | - | - | - |

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United States, 2009 period data

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

| Birthweight | Gestation | | | | | | | | | |
|------------------------------|-----------|-----------|-------------|-------------|-------------|-------------|----------|----------|------------------|------------|
| | Total | <28 Weeks | 28-31 Weeks | 32-33 Weeks | 34-36 Weeks | 37-39 Weeks | 40 Weeks | 41 Weeks | 42 Weeks or more | Not Stated |
| American Indian ¹ | | | | | | | | | | |
| 1,500-1,999 grams | | | | | | | | | | |
| Live births | 716 | 16 | 147 | 225 | 229 | 75 | 9 | 1 | 12 | 2 |
| Infant deaths | 26 | 1 | 8 | 5 | 7 | 4 | - | - | 1 | - |
| Infant mortality rate | 36.31 | * | * | * | * | * | - | - | * | - |
| 2,000-2,499 grams | | | | | | | | | | |
| Live births | 2,248 | 17 | 56 | 200 | 887 | 868 | 100 | 50 | 64 | 6 |
| Infant deaths | 29 | - | 1 | 1 | 11 | 11 | 1 | 1 | 2 | - |
| Infant mortality rate | 12.90 | - | * | * | * | * | * | * | * | - |
| 2,500-2,999 grams | | | | | | | | | | |
| Live births | 8,094 | 19 | 96 | 143 | 1,451 | 4,606 | 941 | 414 | 409 | 15 |
| Infant deaths | 64 | 1 | 2 | 2 | 22 | 27 | 6 | - | 3 | - |
| Infant mortality rate | 7.91 | * | * | * | 15.16 | 5.86 | * | - | * | - |
| 3,000-3,499 grams | | | | | | | | | | |
| Live births | 17,598 | - | 114 | 130 | 1,174 | 10,172 | 3,300 | 1,421 | 1,265 | 22 |
| Infant deaths | 68 | - | 1 | 1 | 7 | 37 | 13 | 2 | 6 | - |
| Infant mortality rate | 3.86 | - | * | * | * | 3.64 | * | * | * | - |
| 3,500-3,999 grams | | | | | | | | | | |
| Live births | 12,905 | - | 61 | 66 | 520 | 6,609 | 3,106 | 1,438 | 1,093 | 12 |
| Infant deaths | 44 | - | - | - | 2 | 25 | 10 | 5 | 2 | - |
| Infant mortality rate | 3.41 | - | - | - | * | 3.78 | * | * | * | - |
| 4,000-4,499 grams | | | | | | | | | | |
| Live births | 3,806 | - | - | 9 | 154 | 1,783 | 997 | 516 | 342 | 5 |
| Infant deaths | 7 | - | - | - | - | 3 | - | 3 | 1 | - |
| Infant mortality rate | * | - | - | - | - | * | - | * | * | - |
| 4,500-4,999 grams | | | | | | | | | | |
| Live births | 664 | - | - | 1 | 34 | 323 | 143 | 109 | 53 | 1 |
| Infant deaths | - | - | - | - | - | - | - | - | - | - |
| Infant mortality rate | - | - | - | - | - | - | - | - | - | - |
| 5,000 grams or more | | | | | | | | | | |
| Live births | 111 | - | - | 1 | 3 | 60 | 17 | 20 | 10 | - |
| Infant deaths | - | - | - | - | - | - | - | - | - | - |
| Infant mortality rate | - | - | - | - | - | - | - | - | - | - |
| Not stated | | | | | | | | | | |
| Live births | 4 | - | - | - | - | - | - | - | - | 4 |
| Infant deaths | - | - | - | - | - | - | - | - | - | - |
| Infant mortality rate | - | - | - | - | - | - | - | - | - | - |
| Asian or Pacific Islander | | | | | | | | | | |
| Total | | | | | | | | | | |
| Live births | 246,886 | 1,308 | 2,486 | 3,240 | 19,325 | 142,134 | 48,318 | 18,870 | 10,928 | 277 |
| Infant deaths | 1,053 | 518 | 85 | 42 | 85 | 224 | 49 | 18 | 21 | 10 |
| Infant mortality rate | 4.27 | 396.02 | 34.19 | 12.96 | 4.40 | 1.58 | 1.01 | * | 1.92 | * |
| Less than 2,500 grams | | | | | | | | | | |
| Live births | 21,012 | 1,262 | 1,956 | 2,257 | 7,057 | 7,076 | 769 | 324 | 280 | 31 |
| Infant deaths | 756 | 518 | 84 | 29 | 46 | 62 | 7 | 3 | 4 | 3 |
| Infant mortality rate | 35.98 | 410.46 | 42.94 | 12.85 | 6.52 | 8.76 | * | * | * | * |

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, 2009 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 | 312 | 301 | 8 | - | - | 2 | - | - | - | 1 |
| Infant deaths | 281 | 270 | 7 | - | - | 2 | - | - | - | 1 |
| Infant mortality rate | 900.64 | 897.01 | * | - | - | * | - | - | - | * |
| 500-749 grams | | | | | | | | | | |
| Live births | 442 | 387 | 48 | 1 | 5 | 1 | - | - | - | - |
| Infant deaths | 197 | 186 | 10 | - | 1 | - | - | - | - | - |
| Infant mortality rate | 445.70 | 480.62 | * | - | * | - | - | - | - | - |
| 750-999 grams | | | | | | | | | | |
| Live births | 574 | 330 | 214 | 12 | 9 | 5 | 2 | 2 | - | - |
| Infant deaths | 65 | 42 | 21 | - | - | 1 | - | - | - | - |
| Infant mortality rate | 113.24 | 127.27 | 98.13 | - | - | * | - | - | - | - |
| 1,000-1,249 grams | | | | | | | | | | |
| Live births | 684 | 145 | 378 | 93 | 36 | 22 | 4 | 1 | 1 | 4 |
| Infant deaths | 36 | 11 | 15 | 3 | 3 | 2 | - | - | - | 2 |
| Infant mortality rate | 52.63 | * | * | * | * | * | - | - | - | * |
| 1,250-1,499 grams | | | | | | | | | | |
| Live births | 923 | 33 | 483 | 232 | 122 | 36 | 6 | 3 | 8 | - |
| Infant deaths | 28 | 5 | 14 | 5 | 1 | 3 | - | - | - | - |
| Infant mortality rate | 30.34 | * | * | * | * | * | - | - | - | - |
| 1,500-1,999 grams | | | | | | | | | | |
| Live births | 3,768 | 44 | 594 | 1,072 | 1,462 | 464 | 71 | 19 | 36 | 6 |
| Infant deaths | 58 | 2 | 12 | 11 | 17 | 15 | 1 | - | - | - |
| Infant mortality rate | 15.39 | * | * | * | * | * | * | - | - | - |
| 2,000-2,499 grams | | | | | | | | | | |
| Live births | 14,309 | 22 | 231 | 847 | 5,423 | 6,546 | 686 | 299 | 235 | 20 |
| Infant deaths | 91 | 1 | 4 | 10 | 24 | 39 | 6 | 3 | 4 | - |
| Infant mortality rate | 6.36 | * | * | * | 4.43 | 5.96 | * | * | * | - |
| 2,500-2,999 grams | | | | | | | | | | |
| Live births | 57,901 | 46 | 209 | 438 | 6,726 | 37,997 | 7,860 | 2,667 | 1,900 | 58 |
| Infant deaths | 109 | - | 1 | 9 | 22 | 56 | 9 | 5 | 6 | - |
| Infant mortality rate | 1.88 | - | * | * | 3.27 | 1.47 | * | * | * | - |
| 3,000-3,499 grams | | | | | | | | | | |
| Live births | 103,775 | - | 212 | 371 | 3,986 | 63,818 | 22,271 | 8,213 | 4,806 | 98 |
| Infant deaths | 125 | - | - | 2 | 12 | 78 | 19 | 4 | 9 | - |
| Infant mortality rate | 1.20 | - | - | * | * | 1.22 | * | * | * | - |
| 3,500-3,999 grams | | | | | | | | | | |
| Live births | 52,702 | - | 109 | 146 | 1,299 | 27,833 | 14,187 | 5,968 | 3,114 | 46 |
| Infant deaths | 48 | - | - | 2 | 5 | 24 | 12 | 3 | 1 | - |
| Infant mortality rate | 0.91 | - | - | * | * | 0.86 | * | * | * | - |
| 4,000-4,499 grams | | | | | | | | | | |
| Live births | 10,036 | - | - | 24 | 222 | 4,738 | 2,845 | 1,489 | 709 | 9 |
| Infant deaths | 6 | - | - | - | - | 1 | 1 | 3 | 1 | - |
| Infant mortality rate | * | - | - | - | - | * | * | * | * | - |

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United states, 2009 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 | 1,249 | - | - | 4 | 28 | 578 | 342 | 187 | 109 | 1 |
| Infant deaths | 3 | - | - | - | - | 3 | - | - | - | - |
| Infant mortality rate | * | - | - | - | - | * | - | - | - | - |
| 5,000 grams or more | | | | | | | | | | |
| Live births | 178 | - | - | - | 7 | 94 | 44 | 22 | 10 | 1 |
| Infant deaths | - | - | - | - | - | - | - | - | - | - |
| Infant mortality rate | - | - | - | - | - | - | - | - | - | - |
| Not stated | | | | | | | | | | |
| Live births | 33 | - | - | - | - | - | - | - | - | 33 |
| Infant deaths | 7 | - | - | - | - | - | - | - | - | 7 |
| Infant mortality rate | * | - | - | - | - | - | - | - | - | * |

-/ Quality zero.

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

¹/ Includes Aleuts and Eskimos.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2010 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)..... | 3,999,386 | 24,572 | 16,193 | 12,900 | 3,293 | 8,379 |
| Rate..... | | 6.14 | 4.05 | 3.23 | 0.82 | 2.10 |
| Less than 2,500 grams..... | 326,801 | 16,661 | 13,420 | 11,232 | 2,189 | 3,241 |
| Rate..... | | 50.98 | 41.06 | 34.37 | 6.70 | 9.92 |
| Less than 500 grams..... | 6,557 | 5,489 | 5,367 | 5,194 | 173 | 122 |
| Rate..... | | 837.12 | 818.51 | 792.13 | 26.38 | 18.61 |
| 500-749 grams..... | 10,636 | 4,516 | 3,793 | 3,001 | 792 | 723 |
| Rate..... | | 424.60 | 356.62 | 282.15 | 74.46 | 67.98 |
| 750-999 grams..... | 11,672 | 1,495 | 1,115 | 749 | 366 | 380 |
| Rate..... | | 128.08 | 95.53 | 64.17 | 31.36 | 32.56 |
| 1,000-1,249 grams..... | 13,443 | 864 | 635 | 457 | 178 | 229 |
| Rate..... | | 64.27 | 47.24 | 34.00 | 13.24 | 17.03 |
| 1,250-1,499 grams..... | 16,498 | 699 | 475 | 350 | 125 | 224 |
| Rate..... | | 42.37 | 28.79 | 21.21 | 7.58 | 13.58 |
| 1,500-1,999 grams..... | 63,512 | 1,556 | 999 | 768 | 230 | 557 |
| Rate..... | | 24.50 | 15.73 | 12.09 | 3.62 | 8.77 |
| 2,000-2,499 grams..... | 204,483 | 2,041 | 1,036 | 711 | 325 | 1,005 |
| Rate..... | | 9.98 | 5.07 | 3.48 | 1.59 | 4.91 |
| 2,500-2,999 grams..... | 744,711 | 2,828 | 1,107 | 671 | 436 | 1,721 |
| Rate..... | | 3.80 | 1.49 | 0.90 | 0.59 | 2.31 |
| 3,000-3,499 grams..... | 1,567,643 | 3,101 | 993 | 557 | 436 | 2,107 |
| Rate..... | | 1.98 | 0.63 | 0.36 | 0.28 | 1.34 |
| 3,500-3,999 grams..... | 1,055,553 | 1,456 | 431 | 255 | 176 | 1,024 |
| Rate..... | | 1.38 | 0.41 | 0.24 | 0.17 | 0.97 |
| 4,000-4,499 grams..... | 263,145 | 344 | 99 | 62 | 37 | 245 |
| Rate..... | | 1.31 | 0.38 | 0.24 | 0.14 | 0.93 |
| 4,500-4,999 grams..... | 36,729 | 72 | 44 | 32 | 12 | 28 |
| Rate..... | | 1.96 | 1.20 | 0.87 | * | 0.76 |
| 5,000 grams or more..... | 4,216 | 20 | 12 | 7 | 5 | 8 |
| Rate..... | | 4.74 | * | * | * | * |
| Not stated..... | 588 | 90 | 86 | 84 | 2 | 4 |
| Rate..... | | 153.06 | 146.26 | 142.86 | * | * |

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, 2010 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)..... | 3,069,315 | 15,998 | 10,596 | 8,368 | 2,228 | 5,402 |
| Rate..... | | 5.21 | 3.45 | 2.73 | 0.73 | 1.76 |
| Less than 2,500 grams..... | 217,852 | 10,352 | 8,491 | 7,082 | 1,409 | 1,861 |
| Rate..... | | 47.52 | 38.98 | 32.51 | 6.47 | 8.54 |
| Less than 500 grams..... | 3,656 | 3,088 | 3,029 | 2,924 | 104 | 59 |
| Rate..... | | 844.64 | 828.50 | 799.78 | 28.45 | 16.14 |
| 500-749 grams..... | 6,199 | 2,730 | 2,362 | 1,914 | 448 | 368 |
| Rate..... | | 440.39 | 381.03 | 308.76 | 72.27 | 59.36 |
| 750-999 grams..... | 7,178 | 953 | 758 | 526 | 233 | 194 |
| Rate..... | | 132.77 | 105.60 | 73.28 | 32.46 | 27.03 |
| 1,000-1,249 grams..... | 8,663 | 592 | 459 | 335 | 124 | 133 |
| Rate..... | | 68.34 | 52.98 | 38.67 | 14.31 | 15.35 |
| 1,250-1,499 grams..... | 10,760 | 469 | 345 | 256 | 89 | 124 |
| Rate..... | | 43.59 | 32.06 | 23.79 | 8.27 | 11.52 |
| 1,500-1,999 grams..... | 43,061 | 1,113 | 763 | 583 | 180 | 350 |
| Rate..... | | 25.85 | 17.72 | 13.54 | 4.18 | 8.13 |
| 2,000-2,499 grams..... | 138,335 | 1,407 | 775 | 543 | 231 | 633 |
| Rate..... | | 10.17 | 5.60 | 3.93 | 1.67 | 4.58 |
| 2,500-2,999 grams..... | 519,143 | 1,901 | 813 | 509 | 304 | 1,089 |
| Rate..... | | 3.66 | 1.57 | 0.98 | 0.59 | 2.10 |
| 3,000-3,499 grams..... | 1,199,243 | 2,234 | 767 | 436 | 332 | 1,467 |
| Rate..... | | 1.86 | 0.64 | 0.36 | 0.28 | 1.22 |
| 3,500-3,999 grams..... | 871,364 | 1,106 | 340 | 207 | 133 | 767 |
| Rate..... | | 1.27 | 0.39 | 0.24 | 0.15 | 0.88 |
| 4,000-4,499 grams..... | 226,023 | 274 | 84 | 51 | 33 | 190 |
| Rate..... | | 1.21 | 0.37 | 0.23 | 0.15 | 0.84 |
| 4,500-4,999 grams..... | 31,772 | 55 | 32 | 20 | 11 | 23 |
| Rate..... | | 1.73 | 1.01 | 0.63 | * | 0.72 |
| 5,000 grams or more..... | 3,478 | 16 | 12 | 7 | 5 | 4 |
| Rate..... | | * | * | * | * | * |
| Not stated..... | 440 | 60 | 58 | 56 | 2 | 2 |
| Rate..... | | 136.36 | 131.82 | 127.27 | * | * |

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, 2010 period data -Cont

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

| Birthweight and race of mother | Live | | Total | Early | Late | Post- |
|--------------------------------|---------|--------|----------|----------|----------|----------|
| | Births | Infant | Neonatal | Neonatal | Neonatal | Neonatal |
| Black | | | | | | |
| Total (all birthweights)..... | 636,425 | 7,134 | 4,653 | 3,755 | 898 | 2,482 |
| Rate..... | | 11.21 | 7.31 | 5.90 | 1.41 | 3.90 |
| Less than 2,500 grams..... | 84,359 | 5,349 | 4,151 | 3,481 | 670 | 1,197 |
| Rate..... | | 63.41 | 49.21 | 41.26 | 7.94 | 14.19 |
| Less than 500 grams..... | 2,524 | 2,068 | 2,012 | 1,949 | 63 | 56 |
| Rate..... | | 819.33 | 797.15 | 772.19 | 24.96 | 22.19 |
| 500-749 grams..... | 3,877 | 1,533 | 1,209 | 913 | 296 | 324 |
| Rate..... | | 395.41 | 311.84 | 235.49 | 76.35 | 83.57 |
| 750-999 grams..... | 3,809 | 463 | 298 | 178 | 119 | 165 |
| Rate..... | | 121.55 | 78.24 | 46.73 | 31.24 | 43.32 |
| 1,000-1,249 grams..... | 3,969 | 221 | 141 | 98 | 43 | 81 |
| Rate..... | | 55.68 | 35.53 | 24.69 | 10.83 | 20.41 |
| 1,250-1,499 grams..... | 4,622 | 191 | 104 | 72 | 32 | 87 |
| Rate..... | | 41.32 | 22.50 | 15.58 | 6.92 | 18.82 |
| 1,500-1,999 grams..... | 15,967 | 358 | 185 | 143 | 42 | 173 |
| Rate..... | | 22.42 | 11.59 | 8.96 | 2.63 | 10.83 |
| 2,000-2,499 grams..... | 49,591 | 514 | 203 | 129 | 74 | 311 |
| Rate..... | | 10.36 | 4.09 | 2.60 | 1.49 | 6.27 |
| 2,500-2,999 grams..... | 159,573 | 754 | 226 | 119 | 107 | 528 |
| Rate..... | | 4.73 | 1.42 | 0.75 | 0.67 | 3.31 |
| 3,000-3,499 grams..... | 247,027 | 674 | 171 | 83 | 88 | 503 |
| Rate..... | | 2.73 | 0.69 | 0.34 | 0.36 | 2.04 |
| 3,500-3,999 grams..... | 118,582 | 258 | 59 | 32 | 27 | 199 |
| Rate..... | | 2.18 | 0.50 | 0.27 | 0.23 | 1.68 |
| 4,000-4,499 grams..... | 23,280 | 57 | 13 | 9 | 4 | 44 |
| Rate..... | | 2.45 | * | * | * | 1.89 |
| 4,500-4,999 grams..... | 3,044 | 14 | 10 | 9 | 1 | 4 |
| Rate..... | | * | * | * | * | * |
| 5,000 grams or more..... | 449 | 4 | - | - | - | 4 |
| Rate..... | | * | - | - | - | * |
| Not stated..... | 111 | 23 | 21 | 21 | - | 2 |
| Rate..... | | 207.21 | 189.19 | 189.19 | - | * |

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, 2010 period data -Cont

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

| Birthweight and race of mother | Live | | Total | Early | Late | Post- |
|--------------------------------|--------|--------|----------|----------|----------|----------|
| | Births | Infant | Neonatal | Neonatal | Neonatal | Neonatal |
| American Indian ¹ | | | | | | |
| Total (all birthweights)..... | 46,760 | 387 | 200 | 156 | 44 | 187 |
| Rate..... | | 8.28 | 4.28 | 3.34 | 0.94 | 4.00 |
| Less than 2,500 grams..... | 3,578 | 205 | 151 | 131 | 19 | 54 |
| Rate..... | | 57.29 | 42.20 | 36.61 | * | 15.09 |
| Less than 500 grams..... | 65 | 53 | 51 | 50 | 1 | 2 |
| Rate..... | | 815.38 | 784.62 | 769.23 | * | * |
| 500-749 grams..... | 118 | 56 | 48 | 43 | 5 | 8 |
| Rate..... | | 474.58 | 406.78 | 364.41 | * | * |
| 750-999 grams..... | 111 | 14 | 11 | 8 | 3 | 3 |
| Rate..... | | * | * | * | * | * |
| 1,000-1,249 grams..... | 127 | 14 | 10 | 8 | 2 | 4 |
| Rate..... | | * | * | * | * | * |
| 1,250-1,499 grams..... | 193 | 11 | 6 | 5 | 1 | 5 |
| Rate..... | | * | * | * | * | * |
| 1,500-1,999 grams..... | 716 | 26 | 12 | 11 | 1 | 14 |
| Rate..... | | 36.31 | * | * | * | * |
| 2,000-2,499 grams..... | 2,248 | 29 | 11 | 5 | 6 | 17 |
| Rate..... | | 12.90 | * | * | * | * |
| 2,500-2,999 grams..... | 8,094 | 64 | 21 | 12 | 9 | 42 |
| Rate..... | | 7.91 | 2.59 | * | * | 5.19 |
| 3,000-3,499 grams..... | 17,598 | 68 | 16 | 7 | 9 | 51 |
| Rate..... | | 3.86 | * | * | * | 2.90 |
| 3,500-3,999 grams..... | 12,905 | 44 | 11 | 4 | 7 | 33 |
| Rate..... | | 3.41 | * | * | * | 2.56 |
| 4,000-4,499 grams..... | 3,806 | 7 | 1 | 1 | - | 6 |
| Rate..... | | * | * | * | - | * |
| 4,500-4,999 grams..... | 664 | - | - | - | - | - |
| Rate..... | | - | - | - | - | - |
| 5,000 grams or more..... | 111 | - | - | - | - | - |
| Rate..... | | - | - | - | - | - |
| Not stated..... | 4 | - | - | - | - | - |
| 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, 2010 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)..... | 246,886 | 1,053 | 744 | 622 | 123 | 309 |
| Rate..... | | 4.27 | 3.01 | 2.52 | 0.50 | 1.25 |
| Less than 2,500 grams..... | 21,012 | 756 | 627 | 537 | 90 | 129 |
| Rate..... | | 35.98 | 29.84 | 25.56 | 4.28 | 6.14 |
| Less than 500 grams..... | 312 | 281 | 274 | 270 | 4 | 6 |
| Rate..... | | 900.64 | 878.21 | 865.38 | * | * |
| 500-749 grams..... | 442 | 197 | 174 | 130 | 43 | 23 |
| Rate..... | | 445.70 | 393.67 | 294.12 | 97.29 | 52.04 |
| 750-999 grams..... | 574 | 65 | 47 | 36 | 11 | 17 |
| Rate..... | | 113.24 | 81.88 | 62.72 | * | * |
| 1,000-1,249 grams..... | 684 | 36 | 25 | 16 | 9 | 11 |
| Rate..... | | 52.63 | 36.55 | * | * | * |
| 1,250-1,499 grams..... | 923 | 28 | 20 | 17 | 3 | 8 |
| Rate..... | | 30.34 | 21.67 | * | * | * |
| 1,500-1,999 grams..... | 3,768 | 58 | 39 | 31 | 7 | 19 |
| Rate..... | | 15.39 | 10.35 | 8.23 | * | * |
| 2,000-2,499 grams..... | 14,309 | 91 | 47 | 34 | 13 | 44 |
| Rate..... | | 6.36 | 3.28 | 2.38 | * | 3.07 |
| 2,500-2,999 grams..... | 57,901 | 109 | 48 | 32 | 16 | 61 |
| Rate..... | | 1.88 | 0.83 | 0.55 | * | 1.05 |
| 3,000-3,499 grams..... | 103,775 | 125 | 38 | 31 | 7 | 86 |
| Rate..... | | 1.20 | 0.37 | 0.30 | * | 0.83 |
| 3,500-3,999 grams..... | 52,702 | 48 | 21 | 12 | 9 | 26 |
| Rate..... | | 0.91 | 0.40 | * | * | 0.49 |
| 4,000-4,499 grams..... | 10,036 | 6 | 1 | 1 | - | 5 |
| Rate..... | | * | * | * | - | * |
| 4,500-4,999 grams..... | 1,249 | 3 | 2 | 2 | - | 1 |
| Rate..... | | * | * | * | - | * |
| 5,000 grams or more..... | 178 | - | - | - | - | - |
| Rate..... | | - | - | - | - | - |
| Not stated..... | 33 | 7 | 7 | 7 | - | - |
| Rate..... | | * | * | * | - | - |

See footnotes at end of table.

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

- / Quantity zero

¹ / Includes Aleuts and Eskimos

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2010 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 | 3,999,386 | 24,572 614.4 | 16,193 404.9 | 12,900 322.5 | 3,293 82.3 | 8,379 209.5 |
| Congenital malformations (Q00-Q99)..... | . | 5,115 127.9 | 3,625 90.6 | 2,787 69.7 | 838 21.0 | 1,490 37.3 |
| Short gestation and low birthweight nec (P07)..... | . | 4,151 103.8 | 4,066 101.7 | 3,944 98.6 | 123 3.1 | 85 2.1 |
| Sudden infant death syndrome (R95)..... | . | 2,058 51.5 | 196 4.9 | 27 0.7 | 170 4.3 | 1,862 46.6 |
| Maternal complications of pregnancy (P01)..... | . | 1,563 39.1 | 1,548 38.7 | 1,528 38.2 | 20 0.5 | 14 * |
| Accidents (unintentional injures) (V01-X59)..... | . | 1,107 27.7 | 131 3.3 | 25 0.6 | 105 2.6 | 976 24.4 |
| Complications of placenta, cord, membranes (P02)..... | . | 1,015 25.4 | 1,000 25.0 | 968 24.2 | 32 0.8 | 15 * |
| Bacterial sepsis of newborn (P36)..... | . | 588 14.7 | 557 13.9 | 230 5.8 | 327 8.2 | 31 0.8 |
| Respiratory distress of newborn (P22)..... | . | 518 13.0 | 500 12.5 | 379 9.5 | 121 3.0 | 17 * |
| Diseases of the circulatory system (I00-I99)..... | . | 508 12.7 | 107 2.7 | 63 1.6 | 44 1.1 | 401 10.0 |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 472 11.8 | 461 11.5 | 305 7.6 | 156 3.9 | 11 * |
| All other causes..... | . | 7,477 187.0 | 4,001 100.0 | 2,644 66.1 | 1,356 33.9 | 3,476 86.9 |
| Less than 2,500 grams | | | | | | |
| All Causes | 326,801 | 16,661 5,098.2 | 13,420 4,106.5 | 11,232 3,437.0 | 2,189 669.8 | 3,241 991.7 |
| Congenital malformations (Q00-Q99)..... | . | 3,111 952.0 | 2,407 736.5 | 1,978 605.3 | 430 131.6 | 703 215.1 |
| Short gestation and low birthweight nec (P07)..... | . | 4,088 1,250.9 | 4,006 1,225.8 | 3,884 1,188.5 | 123 37.6 | 82 25.1 |
| Sudden infant death syndrome (R95)..... | . | 438 134.0 | 24 7.3 | 4 * | 20 6.1 | 414 126.7 |
| Maternal complications of pregnancy (P01)..... | . | 1,521 465.4 | 1,508 461.4 | 1,489 455.6 | 19 * | 13 * |
| Accidents (unintentional injures) (V01-X59)..... | . | 161 49.3 | 17 * | 5 * | 12 * | 144 44.1 |
| Complications of placenta, cord, membranes (P02)..... | . | 932 285.2 | 921 281.8 | 894 273.6 | 27 8.3 | 11 * |
| Bacterial sepsis of newborn (P36)..... | . | 511 156.4 | 487 149.0 | 194 59.4 | 292 89.4 | 24 7.3 |
| Respiratory distress of newborn (P22)..... | . | 507 155.1 | 492 150.6 | 371 113.5 | 121 37.0 | 15 * |
| Diseases of the circulatory system (I00-I99)..... | . | 266 81.4 | 51 15.6 | 32 9.8 | 19 * | 215 65.8 |

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2010 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)..... | . | 437 133.7 | 426 130.4 | 284 86.9 | 143 43.8 | 11 * |
| All other causes..... | . | 4,689 1,434.8 | 3,080 942.5 | 2,097 641.7 | 983 300.8 | 1,609 492.3 |
| 2,500 grams or more | | | | | | |
| All Causes | 3,671,997 | 7,821 213.0 | 2,687 73.2 | 1,584 43.1 | 1,102 30.0 | 5,134 139.8 |
| Congenital malformations (Q00-Q99)..... | . | 2,002 54.5 | 1,216 33.1 | 807 22.0 | 408 11.1 | 787 21.4 |
| Short gestation and low birthweight nec (P07)..... | . | 21 0.6 | 18 * | 18 * | - - | 3 * |
| Sudden infant death syndrome (R95)..... | . | 1,620 44.1 | 172 4.7 | 22 0.6 | 150 4.1 | 1,448 39.4 |
| Maternal complications of pregnancy (P01)..... | . | 17 * | 17 * | 16 * | 1 * | - - |
| Accidents (unintentional injuries) (V01-X59)..... | . | 946 25.8 | 114 3.1 | 20 0.5 | 93 2.5 | 833 22.7 |
| Complications of placenta, cord, membranes (P02)..... | . | 78 2.1 | 74 2.0 | 69 1.9 | 5 * | 4 * |
| Bacterial sepsis of newborn (P36)..... | . | 76 2.1 | 69 1.9 | 35 1.0 | 34 0.9 | 6 * |
| Respiratory distress of newborn (P22)..... | . | 10 * | 8 * | 8 * | - - | 2 * |
| Diseases of the circulatory system (I00-I99)..... | . | 242 6.6 | 55 1.5 | 30 0.8 | 25 0.7 | 187 5.1 |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 33 0.9 | 33 0.9 | 21 0.6 | 12 * | - - |
| All other causes..... | . | 2,775 75.6 | 910 24.8 | 536 14.6 | 374 10.2 | 1,865 50.8 |
| Not stated birthweight | | | | | | |
| All Causes | 588 | 90 15,306.1 | 86 14,625.9 | 84 14,285.7 | 2 * | 4 * |
| Congenital malformations (Q00-Q99)..... | . | 2 * | 2 * | 2 * | - - | - - |
| Short gestation and low birthweight nec (P07)..... | . | 43 7,312.9 | 43 7,312.9 | 43 7,312.9 | - - | - - |
| Sudden infant death syndrome (R95)..... | . | - - | - - | - - | - - | - - |
| Maternal complications of pregnancy (P01)..... | . | 24 4,081.6 | 23 3,911.6 | 23 3,911.6 | - - | 1 * |
| Accidents (unintentional injuries) (V01-X59)..... | . | - - | - - | - - | - - | - - |
| Complications of placenta, cord, membranes (P02)..... | . | 5 * | 5 * | 5 * | - - | - - |
| Bacterial sepsis of newborn (P36)..... | . | 2 * | 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, 2010 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 | | | | | | |
| Respiratory distress of newborn (P22)..... | . | - | - | - | - | - |
| Diseases of the circulatory system (I00-I99)..... | . | - | - | - | - | - |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 1 * | 1 * | - | 1 * | - |
| All other causes..... | . | 13 * | 11 * | 11 * | - | 2 * |
| White | | | | | | |
| All birthweights | | | | | | |
| All Causes | 3,069,315 | 15,998 521.2 | 10,596 345.2 | 8,368 272.6 | 2,228 72.6 | 5,402 176.0 |
| Congenital malformations (Q00-Q99)..... | . | 3,808 124.1 | 2,773 90.3 | 2,143 69.8 | 631 20.6 | 1,034 33.7 |
| Short gestation and low birthweight nec (P07)..... | . | 2,297 74.8 | 2,255 73.5 | 2,182 71.1 | 73 2.4 | 42 1.4 |
| Sudden infant death syndrome (R95)..... | . | 1,360 44.3 | 132 4.3 | 15 * | 117 3.8 | 1,228 40.0 |
| Maternal complications of pregnancy (P01)..... | . | 989 32.2 | 978 31.9 | 965 31.4 | 13 * | 11 * |
| Accidents (unintentional injuries) (V01-X59)..... | . | 729 23.8 | 98 3.2 | 18 * | 79 2.6 | 631 20.6 |
| Complications of placenta, cord, membranes (P02)..... | . | 626 20.4 | 615 20.0 | 595 19.4 | 20 0.7 | 10 * |
| Bacterial sepsis of newborn (P36)..... | . | 391 12.7 | 368 12.0 | 157 5.1 | 211 6.9 | 22 0.7 |
| Respiratory distress of newborn (P22)..... | . | 306 10.0 | 297 9.7 | 232 7.6 | 65 2.1 | 9 * |
| Diseases of the circulatory system (I00-I99)..... | . | 337 11.0 | 77 2.5 | 43 1.4 | 33 1.1 | 260 8.5 |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 339 11.0 | 333 10.8 | 226 7.4 | 107 3.5 | 5 * |
| All other causes..... | . | 4,818 157.0 | 2,668 86.9 | 1,791 58.4 | 878 28.6 | 2,150 70.0 |
| Less than 2,500 grams | | | | | | |
| All Causes | 217,852 | 10,352 4,751.8 | 8,491 3,897.6 | 7,082 3,250.8 | 1,409 646.8 | 1,861 854.2 |
| Congenital malformations (Q00-Q99)..... | . | 2,292 1,052.1 | 1,820 835.4 | 1,502 689.5 | 318 146.0 | 472 216.7 |
| Short gestation and low birthweight nec (P07)..... | . | 2,256 1,035.6 | 2,217 1,017.7 | 2,143 983.7 | 73 33.5 | 40 18.4 |
| Sudden infant death syndrome (R95)..... | . | 247 113.4 | 15 * | 1 * | 14 * | 231 106.0 |
| Maternal complications of pregnancy (P01)..... | . | 959 440.2 | 948 435.2 | 935 429.2 | 13 * | 10 * |

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2010 period data -Cont

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

| Cause of death, birthweight, and race of mother | Live | | Total | Early | Late | Post- |
|---|--------------------|----------------|----------------|----------------|---------------|----------------|
| | Births | Infant | Neonatal | Neonatal | Neonatal | Neonatal |
| White | | | | | | |
| Accidents (unintentional injuries) (V01-X59)..... | . 93 42.7 | 12 * | 4 * | 8 * | 81 37.2 | |
| Complications of placenta, cord, membranes (P02)..... | . 567 260.3 | 560 257.1 | 542 248.8 | 18 * | 7 * | |
| Bacterial sepsis of newborn (P36)..... | . 338 155.2 | 321 147.3 | 133 61.1 | 188 86.3 | 17 * | |
| Respiratory distress of newborn (P22)..... | . 298 136.8 | 289 132.7 | 224 102.8 | 65 29.8 | 9 * | |
| Diseases of the circulatory system (I00-I99)..... | . 161 73.9 | 33 15.1 | 22 10.1 | 11 * | 128 58.8 | |
| Neonatal hemorrhage (P50-P52, P54)..... | . 310 142.3 | 305 140.0 | 209 95.9 | 96 44.1 | 5 * | |
| All other causes..... | . 2,831 1,299.5 | 1,970 904.3 | 1,367 627.5 | 603 276.8 | 861 395.2 | |
| 2,500 grams or more | | | | | | |
| All Causes | 2,851,023 195.9 | 5,586 71.8 | 2,047 43.1 | 1,230 28.7 | 817 124.1 | 3,539 124.1 |
| Congenital malformations (Q00-Q99)..... | . 1,514 53.1 | 951 33.4 | 639 22.4 | 313 11.0 | 562 19.7 | |
| Short gestation and low birthweight nec (P07)..... | . 15 * | 13 * | 13 * | - - | 2 * | |
| Sudden infant death syndrome (R95)..... | . 1,113 39.0 | 117 4.1 | 14 * | 102 3.6 | 997 35.0 | |
| Maternal complications of pregnancy (P01)..... | . 13 * | 13 * | 13 * | - - | - - | |
| Accidents (unintentional injuries) (V01-X59)..... | . 636 22.3 | 86 3.0 | 14 * | 71 2.5 | 550 19.3 | |
| Complications of placenta, cord, membranes (P02)..... | . 56 2.0 | 53 1.9 | 51 1.8 | 2 * | 3 * | |
| Bacterial sepsis of newborn (P36)..... | . 50 1.8 | 46 1.6 | 24 0.8 | 22 0.8 | 4 * | |
| Respiratory distress of newborn (P22)..... | . 8 * | 8 * | 8 * | - - | - - | |
| Diseases of the circulatory system (I00-I99)..... | . 176 6.2 | 43 1.5 | 21 0.7 | 22 0.8 | 132 4.6 | |
| Neonatal hemorrhage (P50-P52, P54)..... | . 27 0.9 | 27 0.9 | 17 * | 10 * | - - | |
| All other causes..... | . 1,977 69.3 | 689 24.2 | 414 14.5 | 275 9.6 | 1,289 45.2 | |
| Not stated birthweight | | | | | | |
| All Causes | 440 13,636.4 | 60 13,181.8 | 58 12,727.3 | 56 12,727.3 | 2 * | 2 * |
| Congenital malformations (Q00-Q99)..... | . 2 * | 2 * | 2 * | - - | - - | |
| Short gestation and low birthweight nec (P07)..... | . 25 5,681.8 | 25 5,681.8 | 25 5,681.8 | - - | - - | |

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2010 period data -Cont

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

| Cause of death, birthweight, and race of mother | Live | | Total | Early | Late | Post- |
|---|---------|---------|----------|----------|----------|----------|
| | Births | Infant | Neonatal | Neonatal | Neonatal | Neonatal |
| White | | | | | | |
| Sudden infant death syndrome (R95)..... | . | - | - | - | - | - |
| Maternal complications of pregnancy (P01)..... | . | 17 | 16 | 16 | - | 1 |
| Accidents (unintentional injuries) (V01-X59)..... | . | - | - | - | - | - |
| Complications of placenta, cord, membranes (P02)..... | . | 3 | 3 | 3 | - | - |
| Bacterial sepsis of newborn (P36)..... | . | 2 | 1 | - | 1 | 1 |
| Respiratory distress of newborn (P22)..... | . | - | - | - | - | - |
| Diseases of the circulatory system (I00-I99)..... | . | - | - | - | - | - |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 1 | 1 | - | 1 | - |
| All other causes..... | . | 9 | 9 | 9 | - | - |
| Black | | | | | | |
| All birthweights | | | | | | |
| All Causes | 636,425 | 7,134 | 4,653 | 3,755 | 898 | 2,482 |
| | | 1,120.9 | 731.1 | 590.0 | 141.1 | 390.0 |
| Congenital malformations (Q00-Q99)..... | . | 984 | 643 | 476 | 166 | 341 |
| | | 154.6 | 101.0 | 74.8 | 26.1 | 53.6 |
| Short gestation and low birthweight nec (P07)..... | . | 1,624 | 1,588 | 1,545 | 43 | 36 |
| | | 255.2 | 249.5 | 242.8 | 6.8 | 5.7 |
| Sudden infant death syndrome (R95)..... | . | 602 | 52 | 8 | 44 | 549 |
| | | 94.6 | 8.2 | * | 6.9 | 86.3 |
| Maternal complications of pregnancy (P01)..... | . | 471 | 469 | 463 | 6 | 2 |
| | | 74.0 | 73.7 | 72.8 | * | * |
| Accidents (unintentional injuries) (V01-X59)..... | . | 320 | 26 | 5 | 21 | 294 |
| | | 50.3 | 4.1 | * | 3.3 | 46.2 |
| Complications of placenta, cord, membranes (P02)..... | . | 314 | 309 | 299 | 10 | 5 |
| | | 49.3 | 48.6 | 47.0 | * | * |
| Bacterial sepsis of newborn (P36)..... | . | 170 | 162 | 61 | 101 | 8 |
| | | 26.7 | 25.5 | 9.6 | 15.9 | * |
| Respiratory distress of newborn (P22)..... | . | 179 | 173 | 121 | 52 | 6 |
| | | 28.1 | 27.2 | 19.0 | 8.2 | * |
| Diseases of the circulatory system (I00-I99)..... | . | 143 | 23 | 13 | 10 | 120 |
| | | 22.5 | 3.6 | * | * | 18.9 |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 115 | 111 | 68 | 43 | 4 |
| | | 18.1 | 17.4 | 10.7 | 6.8 | * |
| All other causes..... | . | 2,213 | 1,097 | 696 | 400 | 1,116 |
| | | 347.7 | 172.4 | 109.4 | 62.9 | 175.4 |
| Less than 2,500 grams | | | | | | |
| All Causes | 84,359 | 5,349 | 4,151 | 3,481 | 670 | 1,197 |
| | | 6,340.8 | 4,920.6 | 4,126.4 | 794.2 | 1,418.9 |

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, 2010 period data -Cont

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

| Cause of death, birthweight, and race of mother | Live | | Total | Early | Late | Post- |
|---|---------|---------|----------|----------|----------|----------|
| | Births | Infant | Neonatal | Neonatal | Neonatal | Neonatal |
| Black | | | | | | |
| Congenital malformations (Q00-Q99)..... | . 632 | 452 | 360 | 92 | 180 | |
| | 749.2 | 535.8 | 426.7 | 109.1 | 213.4 | |
| Short gestation and low birthweight nec (P07)..... | . 1,604 | 1,568 | 1,525 | 43 | 35 | |
| | 1,901.4 | 1,858.7 | 1,807.8 | 51.0 | 41.5 | |
| Sudden infant death syndrome (R95)..... | . 170 | 7 | 2 | 5 | 163 | |
| | 201.5 | * | * | * | 193.2 | |
| Maternal complications of pregnancy (P01)..... | . 464 | 462 | 457 | 5 | 2 | |
| | 550.0 | 547.7 | 541.7 | * | * | |
| Accidents (unintentional injuries) (V01-X59)..... | . 63 | 4 | 1 | 3 | 59 | |
| | 74.7 | * | * | * | 69.9 | |
| Complications of placenta, cord, membranes (P02)..... | . 297 | 293 | 285 | 8 | 4 | |
| | 352.1 | 347.3 | 337.8 | * | * | |
| Bacterial sepsis of newborn (P36)..... | . 147 | 141 | 51 | 90 | 6 | |
| | 174.3 | 167.1 | 60.5 | 106.7 | * | |
| Respiratory distress of newborn (P22)..... | . 178 | 173 | 121 | 52 | 5 | |
| | 211.0 | 205.1 | 143.4 | 61.6 | * | |
| Diseases of the circulatory system (I00-I99)..... | . 92 | 16 | 8 | 8 | 76 | |
| | 109.1 | * | * | * | 90.1 | |
| Neonatal hemorrhage (P50-P52, P54)..... | . 109 | 105 | 64 | 41 | 4 | |
| | 129.2 | 124.5 | 75.9 | 48.6 | * | |
| All other causes..... | . 1,594 | 930 | 608 | 322 | 664 | |
| | 1,889.5 | 1,102.4 | 720.7 | 381.7 | 787.1 | |
| 2,500 grams or more | | | | | | |
| All Causes | 551,955 | 1,762 | 480 | 252 | 228 | 1,282 |
| | | 319.2 | 87.0 | 45.7 | 41.3 | 232.3 |
| Congenital malformations (Q00-Q99)..... | . 352 | 190 | 116 | 74 | 162 | |
| | 63.8 | 34.4 | 21.0 | 13.4 | 29.4 | |
| Short gestation and low birthweight nec (P07)..... | . 5 | 4 | 4 | - | 1 | |
| | * | * | * | - | * | |
| Sudden infant death syndrome (R95)..... | . 431 | 45 | 6 | 39 | 386 | |
| | 78.1 | 8.2 | * | 7.1 | 69.9 | |
| Maternal complications of pregnancy (P01)..... | . 4 | 4 | 3 | 1 | - | |
| | * | * | * | * | - | |
| Accidents (unintentional injuries) (V01-X59)..... | . 257 | 22 | 4 | 18 | 235 | |
| | 46.6 | 4.0 | * | * | 42.6 | |
| Complications of placenta, cord, membranes (P02)..... | . 15 | 14 | 12 | 2 | 1 | |
| | * | * | * | * | * | |
| Bacterial sepsis of newborn (P36)..... | . 23 | 21 | 10 | 11 | 2 | |
| | 4.2 | 3.8 | * | * | * | |
| Respiratory distress of newborn (P22)..... | . 1 | - | - | - | 1 | |
| | * | - | - | - | * | |
| Diseases of the circulatory system (I00-I99)..... | . 51 | 7 | 5 | 2 | 44 | |
| | 9.2 | * | * | * | 8.0 | |
| Neonatal hemorrhage (P50-P52, P54)..... | . 6 | 6 | 4 | 2 | - | |
| | * | * | * | * | - | |
| All other causes..... | . 616 | 166 | 87 | 78 | 450 | |
| | 111.6 | 30.1 | 15.8 | 14.1 | 81.5 | |

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, 2010 period data -Cont

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

| Cause of death, birthweight, and race of mother | Live | | Total | Early | Late | Post- |
|---|--------|----------|----------|----------|----------|----------|
| | Births | Infant | Neonatal | Neonatal | Neonatal | Neonatal |
| Black | | | | | | |
| Not stated birthweight | | | | | | |
| All Causes | 111 | 23 | 21 | 21 | - | 2 |
| | | 20,720.7 | 18,918.9 | 18,918.9 | - | * |
| Congenital malformations (Q00-Q99)..... | . | - | - | - | - | - |
| Short gestation and low birthweight nec (P07)..... | . | 15 | 15 | 15 | - | - |
| | | * | * | * | - | - |
| Sudden infant death syndrome (R95)..... | . | - | - | - | - | - |
| Maternal complications of pregnancy (P01)..... | . | 3 | 3 | 3 | - | - |
| | | * | * | * | - | - |
| Accidents (unintentional injures) (V01-X59)..... | . | - | - | - | - | - |
| Complications of placenta, cord, membranes (P02)..... | . | 2 | 2 | 2 | - | - |
| | | * | * | * | - | - |
| 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..... | . | 3 | 1 | 1 | - | 2 |
| | | * | * | * | - | * |
| American Indian¹ | | | | | | |
| All birthweights | | | | | | |
| All Causes | 46,760 | 387 | 200 | 156 | 44 | 187 |
| | | 827.6 | 427.7 | 333.6 | 94.1 | 399.9 |
| Congenital malformations (Q00-Q99)..... | . | 86 | 52 | 41 | 10 | 35 |
| | | 183.9 | 111.2 | 87.7 | * | 74.9 |
| Short gestation and low birthweight nec (P07)..... | . | 46 | 44 | 44 | - | 2 |
| | | 98.4 | 94.1 | 94.1 | - | * |
| Sudden infant death syndrome (R95)..... | . | 42 | 5 | - | 5 | 37 |
| | | 89.8 | * | - | * | 79.1 |
| Maternal complications of pregnancy (P01)..... | . | 13 | 13 | 13 | - | - |
| | | * | * | * | - | - |
| Accidents (unintentional injures) (V01-X59)..... | . | 27 | 3 | - | 3 | 24 |
| | | 57.7 | * | - | * | 51.3 |
| Complications of placenta, cord, membranes (P02)..... | . | 21 | 21 | 20 | 1 | - |
| | | 44.9 | 44.9 | 42.8 | * | - |
| Bacterial sepsis of newborn (P36)..... | . | 5 | 5 | 3 | 2 | - |
| | | * | * | * | * | - |
| Respiratory distress of newborn (P22)..... | . | 5 | 5 | 4 | 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, 2010 period data -Cont

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

| Cause of death, birthweight, and race of mother | Live | | Total | Early | Late | Post- |
|---|--------|----------------|----------------|----------------|------------|---------------|
| | Births | Infant | Neonatal | Neonatal | Neonatal | Neonatal |
| American Indian¹ | | | | | | |
| Diseases of the circulatory system (I00-I99)..... | . | 9 * | 2 * | 1 * | 1 * | 7 * |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 3 * | 2 * | 2 * | - | 1 * |
| All other causes..... | . | 129 275.9 | 47 100.5 | 26 55.6 | 21 44.9 | 81 173.2 |
| Less than 2,500 grams | | | | | | |
| All Causes | 3,578 | 205 5,729.5 | 151 4,220.2 | 131 3,661.3 | 19 * | 54 1,509.2 |
| Congenital malformations (Q00-Q99)..... | . | 51 1,425.4 | 35 978.2 | 29 810.5 | 5 * | 16 * |
| Short gestation and low birthweight nec (P07)..... | . | 46 1,285.6 | 44 1,229.7 | 44 1,229.7 | - | 2 * |
| Sudden infant death syndrome (R95)..... | . | 9 * | 1 * | - | 1 * | 8 * |
| Maternal complications of pregnancy (P01)..... | . | 13 * | 13 * | 13 * | - | - |
| Accidents (unintentional injuries) (V01-X59)..... | . | 1 * | - | - | - | 1 * |
| Complications of placenta, cord, membranes (P02)..... | . | 16 * | 16 * | 16 * | - | - |
| Bacterial sepsis of newborn (P36)..... | . | 5 * | 5 * | 3 * | 2 * | - |
| Respiratory distress of newborn (P22)..... | . | 5 * | 5 * | 4 * | 1 * | - |
| Diseases of the circulatory system (I00-I99)..... | . | 3 * | 1 * | 1 * | - | 2 * |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 3 * | 2 * | 2 * | - | 1 * |
| All other causes..... | . | 52 1,453.3 | 28 782.6 | 18 * | 10 * | 23 642.8 |
| 2,500 grams or more | | | | | | |
| All Causes | 43,178 | 182 421.5 | 49 113.5 | 24 55.6 | 25 57.9 | 133 308.0 |
| Congenital malformations (Q00-Q99)..... | . | 35 81.1 | 17 * | 12 * | 5 * | 18 * |
| Short gestation and low birthweight nec (P07)..... | . | - | - | - | - | - |
| Sudden infant death syndrome (R95)..... | . | 33 76.4 | 4 * | - | 4 * | 29 67.2 |
| Maternal complications of pregnancy (P01)..... | . | - | - | - | - | - |
| Accidents (unintentional injuries) (V01-X59)..... | . | 26 60.2 | 3 * | - | 3 * | 23 53.3 |
| Complications of placenta, cord, membranes (P02)..... | . | 5 * | 5 * | 4 * | 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, 2010 period data -Cont

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

| Cause of death, birthweight, and race of mother | Live | | Total | Early | Late | Post- |
|---|---------|----------------|--------------|--------------|-------------|--------------|
| | Births | Infant | Neonatal | Neonatal | Neonatal | Neonatal |
| American Indian ¹ | | | | | | |
| Bacterial sepsis of newborn (P36)..... | . | - | - | - | - | - |
| Respiratory distress of newborn (P22)..... | . | - | - | - | - | - |
| Diseases of the circulatory system (I00-I99)..... | . | 6 * | 1 * | - | 1 * | 5 * |
| Neonatal hemorrhage (P50-P52, P54)..... | . | - | - | - | - | - |
| All other causes..... | . | 77 178.3 | 19 * | 8 * | 11 * | 58 134.3 |
| Not stated birthweight | | | | | | |
| All Causes | 4 | - | - | - | - | - |
| Congenital malformations (Q00-Q99)..... | . | - | - | - | - | - |
| Short gestation and low birthweight nec (P07)..... | . | - | - | - | - | - |
| 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)..... | . | - | - | - | - | - |
| 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 | 246,886 | 1,053 426.5 | 744 301.4 | 622 251.9 | 123 49.8 | 309 125.2 |
| Congenital malformations (Q00-Q99)..... | . | 237 96.0 | 157 63.6 | 127 51.4 | 30 12.2 | 80 32.4 |
| Short gestation and low birthweight nec (P07)..... | . | 184 74.5 | 179 72.5 | 173 70.1 | 6 * | 5 * |
| Sudden infant death syndrome (R95)..... | . | 55 22.3 | 7 * | 3 * | 4 * | 48 19.4 |

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, 2010 period data -Cont

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

| Cause of death, birthweight, and race of mother | Live | | Total | Early | Late | Post- |
|---|---------|----------------|----------------|----------------|-------------|--------------|
| | Births | Infant | Neonatal | Neonatal | Neonatal | Neonatal |
| Asian or Pacific Islander | | | | | | |
| Maternal complications of pregnancy (P01)..... | . | 90 36.5 | 89 36.0 | 87 35.2 | 1 * | 1 * |
| Accidents (unintentional injures) (V01-X59)..... | . | 32 13.0 | 4 * | 2 * | 2 * | 28 11.3 |
| Complications of placenta, cord, membranes (P02)..... | . | 55 22.3 | 55 22.3 | 54 21.9 | 1 * | - - |
| Bacterial sepsis of newborn (P36)..... | . | 22 8.9 | 21 8.5 | 8 * | 13 * | 1 * |
| Respiratory distress of newborn (P22)..... | . | 28 11.3 | 25 10.1 | 22 8.9 | 3 * | 2 * |
| Diseases of the circulatory system (I00-I99)..... | . | 19 * | 5 * | 5 * | - - | 14 * |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 15 * | 14 * | 9 * | 5 * | 1 * |
| All other causes..... | . | 318 128.8 | 188 76.1 | 131 53.1 | 57 23.1 | 129 52.3 |
| Less than 2,500 grams | | | | | | |
| All Causes | 21,012 | 756 3,597.9 | 627 2,984.0 | 537 2,555.7 | 90 428.3 | 129 613.9 |
| Congenital malformations (Q00-Q99)..... | . | 136 647.2 | 100 475.9 | 86 409.3 | 14 * | 35 166.6 |
| Short gestation and low birthweight nec (P07)..... | . | 182 866.2 | 177 842.4 | 171 813.8 | 6 * | 5 * |
| Sudden infant death syndrome (R95)..... | . | 12 * | 1 * | 1 * | - - | 11 * |
| Maternal complications of pregnancy (P01)..... | . | 85 404.5 | 84 399.8 | 83 395.0 | 1 * | 1 * |
| Accidents (unintentional injures) (V01-X59)..... | . | 4 * | 1 * | - - | 1 * | 3 * |
| Complications of placenta, cord, membranes (P02)..... | . | 53 252.2 | 53 252.2 | 52 247.5 | 1 * | - - |
| Bacterial sepsis of newborn (P36)..... | . | 20 95.2 | 19 * | 7 * | 12 * | 1 * |
| Respiratory distress of newborn (P22)..... | . | 26 123.7 | 25 119.0 | 22 104.7 | 3 * | 1 * |
| Diseases of the circulatory system (I00-I99)..... | . | 10 * | 1 * | 1 * | - - | 9 * |
| Neonatal hemorrhage (P50-P52, P54)..... | . | 15 * | 14 * | 9 * | 5 * | 1 * |
| All other causes..... | . | 212 1,008.9 | 151 718.6 | 104 495.0 | 47 223.7 | 61 290.3 |
| 2,500 grams or more | | | | | | |
| All Causes | 225,841 | 290 128.4 | 110 48.7 | 78 34.5 | 32 14.2 | 180 79.7 |
| Congenital malformations (Q00-Q99)..... | . | 101 44.7 | 57 25.2 | 41 18.2 | 16 * | 44 19.5 |

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, 2010 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)..... | . | - | - | - | - |
| Sudden infant death syndrome (R95)..... | . | 43 19.0 | 6 * | 2 * | 4 * 16.4 |
| Maternal complications of pregnancy (P01)..... | . | - | - | - | - |
| Accidents (unintentional injuries) (V01-X59)..... | . | 28 12.4 | 3 * | 2 * | 1 * 25 11.1 |
| Complications of placenta, cord, membranes (P02)..... | . | 2 * | 2 * | 2 * | - - |
| Bacterial sepsis of newborn (P36)..... | . | 2 * | 2 * | 1 * | 1 * - |
| Respiratory distress of newborn (P22)..... | . | 1 * | - | - | - 1 * |
| Diseases of the circulatory system (I00-I99)..... | . | 9 * | 4 * | 4 * | - * 5 * |
| Neonatal hemorrhage (P50-P52, P54)..... | . | - | - | - | - |
| All other causes..... | . | 105 46.5 | 36 15.9 | 26 11.5 | 10 * 68 30.1 |
| Not stated birthweight | | | | | |
| All Causes | 33 | 7 * | 7 * | 7 * | - - |
| Congenital malformations (Q00-Q99)..... | . | - | - | - | - |
| Short gestation and low birthweight nec (P07)..... | . | 2 * | 2 * | 2 * | - - |
| Sudden infant death syndrome (R95)..... | . | - | - | - | - |
| Maternal complications of pregnancy (P01)..... | . | 4 * | 4 * | 4 * | - - |
| 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..... | . | 1 * | 1 * | 1 * | - - |

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

- / Quality zero.

1/ Includes Aleuts and Eskimos.

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2010

[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 2010 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 | 299 | 210 | 194 | 16 | 89 |
| White | 194 | 132 | 120 | 12 | 62 |
| Black | 84 | 66 | 63 | 3 | 18 |
| Alabama | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Alaska | | | | | |
| Total | 1 | - | - | - | 1 |
| White | 1 | - | - | - | 1 |
| Black | - | - | - | - | - |
| Arizona | | | | | |
| Total | 13 | 4 | 4 | - | 9 |
| White | 8 | 3 | 3 | - | 5 |
| Black | 1 | 1 | 1 | - | - |
| Arkansas | | | | | |
| Total | 3 | 2 | - | 2 | 1 |
| White | 3 | 2 | - | 2 | 1 |
| Black | - | - | - | - | - |
| California | | | | | |
| Total | 63 | 44 | 42 | 2 | 19 |
| White | 41 | 32 | 30 | 2 | 9 |
| Black | 14 | 8 | 8 | - | 6 |
| Colorado | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Connecticut | | | | | |
| Total | 1 | - | - | - | 1 |
| White | 1 | - | - | - | 1 |
| Black | - | - | - | - | - |
| Delaware | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Dist of Columbia | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Florida | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Georgia | | | | | |
| Total | 17 | 11 | 10 | 1 | 6 |
| White | 10 | 6 | 6 | - | 4 |
| Black | 7 | 5 | 4 | 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, 2010

[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 2010 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

| State and race of child 1/ | Infant | Total neonatal | Early neonatal | Late neonatal | Postneonatal |
|----------------------------|--------|----------------|----------------|---------------|--------------|
| Idaho | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Illinois | | | | | |
| Total | 8 | 8 | 8 | - | - |
| White | 6 | 6 | 6 | - | - |
| Black | 2 | 2 | 2 | - | - |
| Indiana | | | | | |
| Total | 6 | 5 | 5 | - | 1 |
| White | 3 | 2 | 2 | - | 1 |
| Black | 3 | 3 | 3 | - | - |
| Iowa | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Kansas | | | | | |
| Total | 5 | 2 | - | 2 | 3 |
| White | 2 | 1 | - | 1 | 1 |
| Black | 2 | - | - | - | 2 |
| Kentucky | | | | | |
| Total | 7 | 3 | 2 | 1 | 4 |
| White | 6 | 3 | 2 | 1 | 3 |
| Black | 1 | - | - | - | 1 |
| Louisiana | | | | | |
| Total | 9 | 7 | 7 | - | 2 |
| White | - | - | - | - | - |
| Black | 9 | 7 | 7 | - | 2 |
| Maine | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Maryland | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Massachusetts | | | | | |
| Total | 2 | 1 | 1 | - | 1 |
| White | 2 | 1 | 1 | - | 1 |
| Black | - | - | - | - | - |
| Michigan | | | | | |
| Total | 7 | 4 | 4 | - | 3 |
| White | 5 | 2 | 2 | - | 3 |
| Black | 2 | 2 | 2 | - | - |
| Minnesota | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Mississippi | | | | | |
| Total | 1 | - | - | - | 1 |
| White | - | - | - | - | - |
| Black | 1 | - | - | - | 1 |

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2010

[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 2010 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 | 12 | 9 | 6 | 3 | 3 |
| White | 8 | 6 | 4 | 2 | 2 |
| Black | 3 | 2 | 1 | 1 | 1 |
| Montana | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Nebraska | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Nevada | | | | | |
| Total | 2 | 2 | 2 | - | - |
| White | 2 | 2 | 2 | - | - |
| Black | - | - | - | - | - |
| New Hampshire | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| New Jersey | | | | | |
| Total | 8 | 5 | 5 | - | 3 |
| White | 4 | 1 | 1 | - | 3 |
| Black | 2 | 2 | 2 | - | - |
| New Mexico | | | | | |
| Total | 1 | 1 | 1 | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| New York | | | | | |
| Total | 2 | - | - | - | 2 |
| White | 2 | - | - | - | 2 |
| Black | - | - | - | - | - |
| New York City | | | | | |
| Total | 1 | 1 | 1 | - | - |
| White | 1 | 1 | 1 | - | - |
| Black | - | - | - | - | - |
| North Carolina | | | | | |
| Total | 1 | 1 | 1 | - | - |
| White | - | - | - | - | - |
| Black | 1 | 1 | 1 | - | - |
| North Dakota | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Ohio | | | | | |
| Total | 13 | 11 | 10 | 1 | 2 |
| White | 7 | 6 | 5 | 1 | 1 |
| Black | 6 | 5 | 5 | - | 1 |
| Oklahoma | | | | | |
| Total | 6 | 2 | 2 | - | 4 |
| White | 5 | 1 | 1 | - | 4 |
| Black | 1 | 1 | 1 | - | - |

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2010

[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 2010 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

| State and race of child 1/ | Infant | Total neonatal | Early neonatal | Late neonatal | Postneonatal |
|----------------------------|--------|----------------|----------------|---------------|--------------|
| Oregon | | | | | |
| Total | 1 | 1 | 1 | - | - |
| White | 1 | 1 | 1 | - | - |
| Black | - | - | - | - | - |
| Pennsylvania | | | | | |
| Total | 3 | 3 | 3 | - | - |
| White | 3 | 3 | 3 | - | - |
| Black | - | - | - | - | - |
| Rhode Island | | | | | |
| Total | 2 | 2 | 1 | 1 | - |
| White | 1 | 1 | - | 1 | - |
| Black | 1 | 1 | 1 | - | - |
| South Carolina | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| South Dakota | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Tennessee | | | | | |
| Total | 1 | 1 | 1 | - | - |
| White | - | - | - | - | - |
| Black | 1 | 1 | 1 | - | - |
| Texas | | | | | |
| Total | 99 | 78 | 75 | 3 | 21 |
| White | 70 | 52 | 50 | 2 | 18 |
| Black | 25 | 23 | 22 | 1 | 2 |
| Utah | | | | | |
| Total | 1 | - | - | - | 1 |
| White | 1 | - | - | - | 1 |
| 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, 2010

[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 2010 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 | 28 | 20 | 15 | 5 | 8 |
| White | 28 | 20 | 15 | 5 | 8 |
| Black | - | - | - | - | - |
| Virgin Islands | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |
| Guam | | | | | |
| Total | - | - | - | - | - |
| White | - | - | - | - | - |
| Black | - | - | - | - | - |

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

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