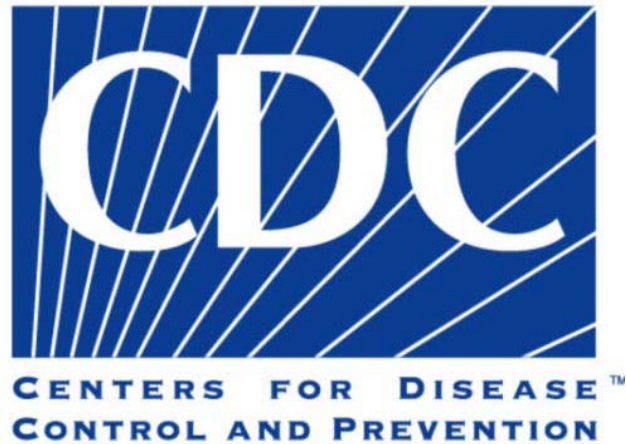


**User Guide
to the
2011 Period Linked
Birth/Infant Death
Public Use File**



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

2011 Period Linked Birth/Infant Death Data Set

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External Links

[User's Guide for the 2011 Natality File](#)

[Deaths: Final Data for 2011](#)

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 2011 period linked file. Differences between period and birth cohort data are outlined below.

Period data - The numerator for the 2011 period linked file consists of all infant deaths occurring in 2011 linked to their corresponding birth certificates, whether the birth occurred in 2010 or 2011. The denominator file for this data set is the 2011 natality file, that is, all births occurring in 2011.

The 2011 period linked birth/infant death data set includes several data files. The first file includes all US infant deaths which occurred in the 2011 data year linked to their corresponding birth certificates, whether the birth occurred in 2010 or 2011 - 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 2011 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-six states, the District of Columbia (DC), and Puerto Rico, representing 83 percent of all U.S. births, implemented the 2003 revision on or before January 1, 2011. 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, 2011. 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 2011 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 [2011 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 2011 linked file contains information on infants born in both 2010 and 2011. As reporting areas changed between 2010 and 2011, 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 2010 and 2011. 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 2011 linked file are different from those for the 2011 birth file, as items had to be reported by a state in both 2010 and 2011 to be able to provide complete data. Thus, data for non-comparable items from states that revised in 2011 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 often 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 2011 data for the month prenatal care began for the thirty-three and DC revised states which had implemented the revised certificate by January 1st 2010.

Sample SAS program

```
01 DATA work;  
02 INFILE 'C:\VS11LINK.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:\VS11LINK.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, forty states and DC reported multiple race data, representing 86% of all U.S. births. For the 2011 period linked file, complete data for both 2010 and 2011 births are available from 39 areas, representing 83 percent of all U.S. births.

In 2011, multiple race data were reported on the death certificates of 38 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.

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 3.55 to 0.60 in the numerator file, and from 0.12 to 0.04 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 2011 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. 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 2011 linked file for the 50 States and D.C. includes 23,723 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 24,022.

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 (97.5), California (96.2), Louisiana (97.4), New Jersey (97.7), Oklahoma (97.8), and Texas (95.5). When a high percentage of deaths remain unlinked, unweighted infant mortality rates computed for these states are underestimated. It is for this reason that weights 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, 2011 linked file

United States	98.8	Nebraska	99.3
Alabama	100.0	Nevada	100.0
Alaska	97.5	New Hampshire	100.0
Arizona	98.6	New Jersey	97.7
Arkansas	99.3	New Mexico	100.0
California	96.2	New York State	99.5
Colorado	100.0	New York City	99.7
Connecticut	99.5	North Carolina	99.5
Delaware	100.0	North Dakota	100.0
District of Columbia	100.0	Ohio	98.2
Florida	99.9	Oklahoma	97.8
Georgia	98.6	Oregon	100.0
Hawaii	100.0	Pennsylvania	100.0
Idaho	100.0	Rhode Island	100.0
Illinois	99.5	South Carolina	100.0
Indiana	99.2	South Dakota	100.0
Iowa	100.0	Tennessee	100.0
Kansas	100.0	Texas	95.5
Kentucky	99.7	Utah	99.7
Louisiana	97.4	Vermont	100.0

Maine	100.0	Virginia	100.0
Maryland	100.0	Washington	100.0
Massachusetts	99.7	West Virginia	99.3
Michigan	100.0	Wisconsin	100.0
Minnesota	100.0	Wyoming	100.0
Mississippi	99.4	Puerto Rico	99.2
Missouri	99.3	Virgin Islands	88.9
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.

2011 Period Linked Birth/Infant Death Data Set

Numerator Files:

United States

A. Record count:	23,723
B. Record length:	1,259
C. Data counts:	a. By occurrence: 23,723 b. By residence: 23,702 c. To foreign residents: 21

Territories

A. Record count:	402
B. Record length:	1,259

Denominator Files:

United States

A. Record count:	3,961,220
B. Record length:	868
C. Data counts:	a. By occurrence: 3,961,220 b. By residence: 3,953,590 c. To foreign residents: 7,630

Territories

A. Record count:	45,971
B. Record length:	868

Unlinked Files:

United States

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

Territories

A. Record count:	4
B. Record length:	1,259

Linked 2011 Data Elements and Locations

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

Pregnancy items				
Month pre-care began	245-47, 256-59	245-47, 256-59	--	--
Number prenatal visits	270-73	270-73	--	--
Live birth order	212	212	--	--
Total birth order	217	217	--	--
Month of last live birth	220-21	220-21	--	--
Year of last live birth	222-25	222-25	--	--
Medical and health data				
Method of delivery	390-403	390-403	--	--
Medical risk factors	313-19, 328-37	313-19, 328-37	--	--
Tobacco	284-94	284-94	--	--
Weight gain during preg	276-78	276-78	--	--
Obstetric procedures	351-61	351-61	--	--
Complications / Characteristics of L/D	365-89	365-89	--	--
Abnormal conditions	476-82	476-82	--	--
Congenital anomalies	492-523	492-523	--	--
Underlying cause, death	--	--	884-87	884-87
130 infant cause recode	--	--	889-91	889-91
Multiple conditions	--	--	903-1148	903-1148
Other items				
Residence reporting				
Flags	569-771	569-771	--	--
Late record flag	9	9	--	--
Place of birth	42,59	42,59	--	--
Attendant at birth	410	410	--	--
Place of death and decedent's status	--	--	1186	1186
Place of injury	--	--	882	882
Manner of death	--	--	878	878
Method of disposition	--	--	879	879
Autopsy	--	--	880	880

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

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

2011 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	2010 2011	2010 2011
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
21-24	4	FILLER	Filler				
25-28	4	DOB_TT	Birth Time	c571	R	0000-2359 9999	Time of Birth Not Stated
29	1	DOB_WK	Weekday		U,R	1 2 3 4 5	Sunday Monday Tuesday Wednesday Thursday

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U 1989 Version of US Standard Birth Certificate

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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
						6	Friday
						7	Saturday
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	Guam
						PR	Puerto Rico
						VI	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)	676	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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
43-58	16	FILLER	Filler				
59	1	BFACIL3	Birth Place Recode		U,R	1 2 3	In Hospital Not in Hospital 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	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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						38	38 years
						39	39 years
						40	40 years
						41	41 years
						42	42 years
						43	43 years
						44	44 years
						45	45 years
						46	46 years
						47	47 years
						48	48 years
						49	49 years
						50	50 -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)		R,u	AA-ZZ	See Geographic Documentation

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
			only, geographic codes are not available in the U.S. file.)				
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	RESIDENT: State and county of occurrence and residence are the same.

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						2	INTRASTATE NONRESIDENT: State of occurrence and residence are the same but county is different.
						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	White

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R 2003 Version of US Standard Birth Certificate

U 1989 Version of US Standard Birth Certificate

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						02	Black
						00	Other
141-142	2	MRACE	Mother's Race <u>United States</u>	650 (API groups)	U	01	White
						02	Black
						03	American Indian or 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 or 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 or Alaskan Natives
						04	Chinese

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R 2003 Version of US Standard Birth Certificate

U 1989 Version of US Standard Birth Certificate

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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
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						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 or South 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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
150-151	2	FILLER	Filler				
152	1	MAR_P	Paternity Acknowledged	653	R	Y N U X	Yes No Unknown Not Applicable
153	1	MAR	Mother's Marital Status	652	U,R		
			<u>United States & all non-Puerto Rican Territories</u>			1 2 9	Yes No Unknown or not Stated
			<u>Puerto Rico</u>			1 2 3 9	Yes Unmarried parents living together Unmarried parents not living together Unknown or not stated
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 Education –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
156-174	19	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)		R	09-98	Father's combined age in years

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition	
						c571	99	Unknown or not stated
184-185	2	UFAGECOMB	Father's Combined Age (Unrevised)		U	10-98 99	Father's combined age in years Unknown or not stated	
186-187	2	FAGEREC11	Father's Age Recode 11		U,R	01 02 03 04 05 06 07 08 09 10 11	Under 15 years 15-19 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years 45-49 years 50-54 years 55-98 years Not stated	
188-189	2	FBRACE	Father's Bridged Race <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 11 12 13 14 21 22 23 24 99 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 Unknown or not stated, also includes states not reporting multiple race Not on certificate	
			<u>Puerto Rico</u>			01	White	

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						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 or Alaskan Native
						4	Asian or 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 or South American
						5	Other and Unknown Hispanic
						9	Origin unknown or not stated
196	1	FRACEHISP	Father's Race/Hispanic Origin	570	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
197	1	FEDUC	Father's Education	572	R	1	8 th grade or less
						2	9 th through 12 th grade with no diploma

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						3	High school graduate or GED completed
						4	Some college credit, but not a degree.
						5	Associate degree (AA,AS)
						6	Bachelor's degree (BA, AB, BS)
						7	Master's degree (MA, MS, MEng, MEd, MSW, MBA)
						8	Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD)
						9	Unknown
198	1	FILLER	Filler				
199-200	2	UFRACE	Father's Race (Unrevised)		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.
						99	Unknown or not stated
			<u>Puerto Rico</u>			01	White
						03	Black
						00	Other races not classified white or black
						99	Unknown or not stated
			<u>Guam</u>			01	White
						02	Black
						03	American Indian & Alaskan Natives
						04	Chinese

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

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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
						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
201-207	7	FILLER	Filler				
208-209	2	PRIORTERM	Prior Other Terminations		U,R	00-30	Number other terminations
						99	Unknown or not stated
210-211	2	FILLER	Filler				
212	1	LBO_REC	Live Birth Order Recode		U,R	1-7	Number of live birth order.
						8	8 or more live births
						9	Unknown or not stated
213-216	4	FILLER	Filler				
217	1	TBO_REC	Total Birth Order Recode		U,R	1-7	Number of total birth order.
						8	8 or more total births
						9	Unknown or not stated
218-244	27	FILLER	Filler				
245-246	2	PRECARE	Month Prenatal Care Began (Revised)				
			668		R	00	No prenatal care
						01-10	Month prenatal care began
						99	Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
247	1	PRECARE_REC	Month Prenatal Care Began Recode (Revised)	668	R	1 2 3 4 5	1 st to 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated
248-269	22	FILLER	Filler				
270-271	2	UPREVIS	Number of Prenatal Visits	671	U,R	00-49 99	Number of prenatal visits Unknown or not stated
272-273	2	PREVIS_REC	Number of Prenatal Visits Recode	671	U,R	01 02 03 04 05 06 07 08 09 10 11 12	No visits 1 to 2 visits 3 to 4 visits 5 to 6 visits 7 to 8 visits 9 to 10 visits 11 to 12 visits 13 to 14 visits 15 to 16 visits 17 to 18 visits 19 or more visits Unknown or not stated
274-275	2	FILLER	Filler				
276-277	2	WTGAIN	Weight Gain	648	U,R	00-97 98 99	Weight gain in pounds 98 pounds and over Unknown or not stated
278	1	WTGAIN_REC	Weight Gain Recode	648	U,R	1 2 3 4 5 9	Less than 11 pounds 11 to 20 pounds 21 to 30 pounds 31 to 40 pounds 41 to 98 pounds Unknown or not stated
279	1	FILLER	Filler				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition	
280	1	DFPC_IMP	Day of Date First Prenatal Care Imputed		R	Blank 1	Day of date first prenatal care not imputed Day of date first prenatal care imputed	
281	1	WIC	WIC	579	R	Y N U	Yes No Unknown or not stated	
282-283	2	CIG_0	Cigarettes Before Pregnancy	672	R	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated	
284-285	2	CIG_1	Cigarettes 1st Trimester	575	R	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated	
286-287	2	CIG_2	Cigarettes 2nd Trimester	575	R	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated	
288-289	2	CIG_3	Cigarettes 3rd Trimester	575	R	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated	
290-293	4	FILLER	Filler					
294	1	CIG_REC	Cigarette Recode (Revised)	575	R	Y N U	Yes No Unknown or not stated	
295-312	18	FILLER	Filler					
313-321	9	<u>Risk Factors (Revised)</u>			R	Y N U	Yes No Unknown or not stated	
		The checkbox items indented below follow this code structure:						
	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			

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
318	1	RF_PPTERM	Previous Preterm Birth	587			
319	1	RF_PPOUTC	Poor Pregnancy Outcome	588			
320	1	FILLER	Filler				
321	1	RF_INFTR	Infertility Treatment	590			
322	1	RF_FEDRG	Fertility Enhancing Drugs	591	R	Y N X U	Yes No Not applicable Unknown or not stated
323	1	RF_ARTEC	Asst. Reproductive Technology	592	R	Y N X U	Yes No Not applicable Unknown or not stated
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
327-330	4	FILLER	Filler				
331-337	7	<u>Risk Factors</u>			U,R		
			The checkbox items indented below follow this structure:			1 2 9	Yes No Unknown
331	1	URF_DIAB	Diabetes	684			
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			
338-344	7	FILLER	Filler				
345-350	6	<u>Infections Present</u>			R		
			The checkbox items indented below follow this structure:			Y N U	Yes No Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
345	1	IP_GONN	Gonorrhea	595			
346	1	IP_SYPH	Syphillis	596			
347	1	FILLER	Filler				
348	1	IP_CHLAM	Chlamydia	598			
349	1	IP_HEPB	Hepatitis B	599			
350	1	IP_HEPC	Hepatitis C	600			
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
						8	Not on certificate
						9	Unknown or not stated
357	1	UOP_INDUC	Induction of Labor	703			
358	1	FILLER	Filler				
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			
365-373	9	<u>Characteristics of Labor and Delivery (Revised)</u>			R		
		The checkbox items indented below follow this structure:				Y	Yes
						N	No
						U	Unknown or not stated
365	1	LD_INDL	Induction of Labor	608			
366	1	LD_AUGM	Augmentation of Labor	609			
367	1	FILLER	Filler				
368	1	LD_STER	Steroids	611			

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
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>			U,R		
		The checkbox items indented below follow this structure:				1	Yes
						2	No
375	1	ULD_MECO	Meconium	712		8	Not on certificate
376-380	5	FILLER	Filler			9	Unknown or not stated
381	1	ULD_PRECIP	Precipitous Labor	718			
382-383	2	FILLER	Filler				
384	1	ULD_BREECH	Breech	721			
385-391	7	FILLER	Filler				
392-394	3	<u>Method of Delivery (Revised)</u>					
392	1	ME_PRES	Fetal Presentation	619	R	1	Cephalic
						2	Breech
						3	Other
						9	Unknown or not stated
393	1	ME_ROUT	Route & Method of Delivery	620	R	1	Spontaneous
						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
395-398	4	FILLER	Filler				
399-400	2	<u>Method of Delivery (Unrevised)</u>					

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition	
			The checkbox items indented below follow this structure:				1	Yes
							2	No
							9	Unknown or not stated
399	1	UME_FORCP	Forceps	734	U,R			
400	1	UME_VAC	Vacuum	735	U,R			
401	1	RDMETH_REC	Delivery Method Recode (Revised)	679	R	1	Vaginal (excludes vaginal after previous C-section)	
						2	Vaginal after previous c-section	
						3	Primary C-section	
						4	Repeat C-section	
						5	Vaginal (unknown if previous c-section) (2003 Standard only)	
						6	C-section (unknown if previous c-section) (2003 Standard Only)	
						9	Not stated	
402	1	FILLER	Filler					
403	1	DMETH_REC	Delivery Method Recode Combined		U,R	1	Vaginal	
						2	C-Section	
						9	Unknown	
404-409	6	<u>Maternal Morbidity</u>			R	Y	Yes	
		The checkbox items indented below follow this structure:				N	No	
						U	Unknown or not stated	
404	1	MM_MTR	Maternal Transfusion	622				
405	1	MM_PLAC	Perineal Laceration	623				
406	1	MM_RUPT	Ruptured Uterus	624				
407	1	MM_UHYST	Unplanned Hysterectomy	625				
408	1	MM_ICU	Admit to Intensive Care	626				
409	1	MM_UOPER	Unplanned Operation	627				
410	1	ATTEND	Attendant		U,R	1	Doctor of Medicine (MD)	
						2	Doctor of Osteopathy (DO)	
						3	Certified Nurse Midwife (CNM)	
						4	Other Midwife	
						5	Other	
						9	Unknown or not stated	

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
411	1	MTRAN	Mother Transferred	c571	R	Y N U	Yes No Unknown
412	1	PAY	Payment Source	580	R	1 2 3 4 5 6 8 9	Medicaid Private Insurance Self-Pay Indian Health Service CHAMPUS/TRICARE Other Government (Federal, State, Local) Other Unknown
413	1	PAYR	Payment Recode	678	R	1 2 3 4 9	Medicaid Private Insurance Self Pay Other Unknown
414	1	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	2	APGAR10	Ten Minute APGAR Score	c579	R	00-10 88 99	A score of 0-10 Not applicable Unknown or not stated
420	1	APGAR10R	Ten Minute APGAR Recode	c579	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 Not stated / not applicable

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
421-422	2	FILLER	Filler				
423	1	DPLURAL	Plurality Recode		U,R	1 2 3 4 5	Single Twin Triplet Quadruplet Quintuplet or higher
424	1	FILLER	Filler				
425	1	IMP_PLUR	Plurality Imputed		U,R	Blank 1	Plurality is imputed Plurality is not imputed
426-435	10	FILLER	Filler				
436	1	SEX	Sex of Infant		U,R	M F	Male Female
437	1	IMP_SEX	Imputed Sex		U,R	Blank 1	Infant Sex not Imputed Infant Sex is Imputed
438-439	2	DLMP_MM	Last Normal Menses Month		U,R	01 02 03 04 05 06 07 08 09 10 11 12 99	January February March April May June July August September October November December Unknown or not stated
440-441	2	FILLER	Filler				
442-445	4	DLMP_YY	Year of Last Normal Menses Began		U,R	nnnn 9999	Year of last normal menses Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
446-447	2	ESTGEST	Obstetric/Clinical Gestation Est.	573	U,R	17-47 99	17 th through 47 th week 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 10 99	Under 20 weeks 20-27 weeks 28-31 weeks 32-33 weeks 34-36 weeks 37-38 weeks 39 weeks 40 weeks 41 weeks 42 weeks and over Unknown
455	1	GESTREC3	Gestation Recode 3		U,R	1 2 3	Under 37 weeks 37 weeks and over Not stated
456	1	OBGEST_FLG	Clinical Estimate of Gestation Used Flag		U,R	Blank 1	Clinical Estimate is not used Clinical Estimate is used
457	1	GEST_IMP	Gestation Imputed Flag		U,R	Blank 1	Gestation is not imputed Gestation is imputed
458-466	9	FILLER	Filler				
467-470	4	BRTHWGT	Imputed 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	227- 499 grams 500 – 749 grams 750 - 999 grams 1000 - 1249 grams 1250 – 1499 grams

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						06	1500 – 1999 grams
						07	2000 – 2499 grams
						08	2500 – 2999 grams
						09	3000 – 3400 grams
						10	3500 – 3999 grams
						11	4000 – 4499 grams
						12	4500 – 4999 grams
						13	5000 – 8165 grams
						14	Not Stated
473	1	BWTR4	Birth Weight Recode 4		U,R	1	227- 1499 grams
						2	1500 – 2499 grams
						3	2500 - 8165 grams
						4	Unknown or not stated
474-475	2	FILLER	Filler				
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				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
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 P N U Blank	Confirmed Pending No Unknown Not on certificate
502	1	CA_DISOR	Suspected Chromosomal Disorder	645	R	C P N U Blank	Confirmed Pending No 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			
519-520	2	FILLER	Filler				
521	1	UCA_HERNIA	Diaphragmatic Hernia	769			
522	1	FILLER	Filler				
523	1	UCA_DOWNS	Downs Syndrome	771			
524-525	2	FILLER	Filler				
526	1	ITRAN	Infant Transferred	c571	R	Y	Yes

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						N	No
						U	Unknown or not stated
527	1	ILIVE	Infant Living at Time of Report c571		R	Y	Yes
						N	No
						U	Unknown or not stated
528	1	BFED	Infant Being Breastfed 581		R	Y	Yes
						N	No
						U	Unknown or not stated
529-532	4	FILLER	Filler				
533	1	BMI_R	Body Mass Index Recode 576 (prepregnancy)		R	1	Underweight <18.5
						2	Normal 18.5-24.9
						3	Overweight 25.0-29.9
						4	Obesity I 30.0-34.9
						5	Obesity II 35.0-39.9
						6	Extreme Obesity III ≥40
						9	Unknown or not stated
534-536	3	ILLB_R	Interval of Last Live Birth Recode c571		R	000-003	Plural delivery
						004-300	Months since last live birth
						888	Not applicable / 1 st live birth
						999	Unknown or not stated
537-538	2	ILLB_R11	Interval of Last Live Birth Recode 11 c571		R	00	Zero to 3 months (plural delivery)
						01	4-11 months
						02	12-17 months
						03	18-23 months
						04	24-35 months
						05	36-47 months
						06	48-59 months
						07	60-71 months
						08	72 months and over
						88	Not applicable (1 st live birth)
						99	Unknown or not stated
539-541	3	ILOP_R	Interval of Last Other Pregnancy c571		R	000-003	Plural delivery
						004-300	Months since last live birth

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						888 999	Not applicable / 1 st natality event Unknown or not stated
542-543	2	ILOP	Interval of Last Other Pregnancy Recode 11 c571	R		00 01 02 03 04 05 06 07 08 88 99	Zero to 3 months (plural delivery) 4-11 months 12-17 months 18-23 months 24-35 months 36-47 months 48-59 months 60-71 months 72 months and over Not applicable (1 st natality event) Unknown or not stated
544-546	3	ILP	Interval of Last Pregnancy c571	R		000-003 004-300 888 999	Plural delivery Months since last live birth Not applicable / no previous pregnancy Unknown or not stated
547-548	2	ILP_R11	Interval of Last Pregnancy Recode 11 c571	R		00 01 02 03 04 05 06 07 08 88 99	Zero to 3 months (plural delivery) 4-11 months 12-17 months 18-23 months 24-35 months 36-47 months 48-59 months 60-71 months 72 months and over Not applicable (no previous pregnancy) Unknown or not stated
549-551	3	PWgt_R	Pre-pregnancy Weight Recode 577	R		075-375 999	Weight in pounds Unknown or not stated
552-554	3	DWgt_R	Delivery Weight Recode 578	R		100-400 999	Weight in pounds Unknown or not stated
555-556	2	M_Ht_In	Mother's Height in Inches 576	R		30-78 99	Height in inches Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
557	1	SetOrder_R	Set Order Recode	c571	R	1 2 3 4 5 9	1 st 2 nd 3 rd 4 th 5 th to 16 th Unknown or not stated
558-568	11	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	F_FEDUC	Education of Father		R		
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	1	F_M_HT	Mother's Height		R		
577	1	F_PWGT	Prepregnancy Weight		R		
578	1	F_DWGT	Weight at Delivery		R		
579	1	F_WIC	WIC		R		
580	1	F_PAY	Source of Payment		R		
581	1	F_BFED	Breastfed at Discharge		R		
582	1	F_RF_PDIAB	Prepregnancy Diabetes		R		
583	1	F_RF_GDIAB	Gestational Diabetes		R		
584	1	F_RF_PHYPER	Prepregnancy Hypertension		R		
585	1	F_RF_GHYPER	Gestational Hypertension		R		
586	1	F_RF_ECLAMP	Hypertension Eclampsia		R		
587	1	F_RF_PPB	Previous Preterm Birth		R		
588	1	F_RF_PPO	Poor Pregnancy outcomes		R		
589	1	FILLER	Filler				
590	1	F_RF_INFT	Infertility Treatment		R		
591	1	F_RF_INFT_DRG	Fertility Enhance Drugs		R		
592	1	F_RF_INF_ART	Reproductive Technology		R		
593	1	F_RF_CESAR	Previous Cesarean		R		

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
594	1	F_RF_NCESAR	Number of Previous Cesareans		R		
595	1	F_IP_GONOR	Gonorrhea		R		
596	1	F_IP_SYPH	Syphilis		R		
597	1	FILLER	Filler				
598	1	F_IP_CHLAM	Chlamydia		R		
599	1	F_IP_HEPATB	Hepatitis B		R		
600	1	F_IP_HEPATC	Hepatitis C		R		
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	FILLER	Filler				
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		
617-8	2	FILLER	Filler				
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	1	F_MM_MTRANS	Maternal Transfusion		R		
623	1	F_MM_LACER	Perineal Laceration		R		
624	1	F_MM_RUPTUR	Ruptured Uterus		R		
625	1	F_MM_UHYSTR	Unplanned Hysterectomy		R		
626	1	F_MM_ICU	Admission to Intensive Care		R		
627	1	F_MM_OR	Unplanned Operating Room Procedure		R		
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		

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
635	1	F_CA_ANEN	Anencephaly		R		
636	1	F_CA_MENIN	Meningomyelocele/Spina Bifida		R		
637	1	F_CA_HEART	Cyanotic Congenital Heart Disease		R		
638	1	F_CA_HERNIA	Congenital Diaphragmatic Hernia		R		
639	1	F_CA_OMPHA	Omphalocele		R		
640	1	F_CA_GASTRO	Gastroschisis		R		
641	1	F_CA_LIMB	Limb Reduction Defect		R		
642	1	F_CA_CLEFTLP	Cleft Lip 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	FILLER	Filler				
648	1	F_WTGAIN	Weight Gain		U,R		
649-651	3	FILLER	Filler				
652	1	F_MAR_G	Mother's Marital Status		R		
653	1	F_MAR_P	Paternity Acknowledged		R		
654-667	14	FILLER	Filler				
668	1	F_MPCB	Month Prenatal Care Began		R		
669-670	2	FILLER	Filler				
671	1	F_TPCV	Total Number of Prenatal Visits		U,R		
672	1	F_CIGS_0	Cigarettes before Pregnancy		R		
673	1	F_CIGS_1	Cigarettes 1 st Trimester		R		
674	1	F_CIGS_2	Cigarettes 2 nd Trimester		R		
675	1	F_CIGS_3	Cigarettes 3 rd Trimester		R		
676	1	F_FACILITY	Facility		R		
677	1	FILLER	Filler				
678	1	F_PAY_REC	Payment Recode		R		
679	1	F_RD METH_REC	Method of Delivery		R		
680-683	4	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				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
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		
722-733	12	FILLER	Filler				
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		
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		
767-768	2	FILLER	Filler				
769	1	F_UCA_HERNIA	Hernia		U,R		
770	1	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			1 Blank	Record in both files Record not in both files

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 1 2 3 4 5 6 7 8 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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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
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. 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
1154-1156	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
1166-1168	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
1183-1185	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>			2011	2011
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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***** Cause Subtotals are not identified in this file *****

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

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

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

056			Influenza (J10-J11)
057			Pneumonia (J12-J18)
058			Acute bronchitis and acute bronchiolitis (J20-J21)
059			Bronchitis, chronic and unspecified (J40-J42)
060			Asthma (J45-J46)
061			Pneumonitis due to solids and liquids (J69)
062			Other and unspecified diseases of respiratory system (J22,J30-J39,J43-J44,J47-J68,J70-J98)
063	1		Diseases of the digestive system (K00-K92)
064			Gastritis, duodenitis, and noninfective enteritis and colitis (K29,K50-K55)
065			Hernia of abdominal cavity and intestinal obstruction without hernia (K40-K46,K56)
066			All other and unspecified diseases of digestive system (K00-K28,K30-K38,K57-K92)
067	1		Diseases of the genitourinary system (N00-N95)
068			Renal failure and other disorders of kidney (N17-N19,N25,N27)
069			Other and unspecified diseases of genitourinary system (N00-N15,N20-N23,N26,N28-N95)
070	1		Certain conditions originating in the perinatal period (P00-P96)
071	1		Newborn affected by maternal factors and by complications of pregnancy, labor and delivery (P00-P04)
072			Newborn affected by maternal hypertensive disorders (P00.0)
073			Newborn affected by other maternal conditions which may be unrelated to present pregnancy (P00.1-P00.9)
074	1		Newborn affected by maternal complications of pregnancy (P01)
075			Newborn affected by incompetent cervix (P01.0)
076			Newborn affected by premature rupture of membranes (P01.1)
077			Newborn affected by multiple pregnancy (P01.5)
078			Newborn affected by other maternal complications of pregnancy (P01.2-P01.4,P01.6-P01.9)
079	1		Newborn affected by complications of placenta, cord and membranes (P02)
080			Newborn affected by complications involving placenta (P02.0-P02.3)
081			Newborn affected by complications involving cord (P02.4-P02.6)
082			Newborn affected by chorioamnionitis (P02.7)
083			Newborn affected by other and unspecified abnormalities of membranes (P02.8-P02.9)
084			Newborn affected by other complications of labor and delivery (P03)
085			Newborn affected by noxious influences transmitted via placenta or breast milk (P04)
086	1		Disorders related to length of gestation and fetal malnutrition (P05-P08)
087			Slow fetal growth and fetal malnutrition (P05)
088	1		Disorders related to short gestation and low birthweight, not elsewhere classified (P07)
089			Extremely low birthweight or extreme immaturity (P07.0,P07.2)
090			Other low birthweight or preterm (P07.1,P07.3)
091			Disorders related to long gestation and high birthweight (P08)
092			Birth trauma (P10-P15)
093	1		Intrauterine hypoxia and birth asphyxia (P20-P21)
094			Intrauterine hypoxia (P20)
095			Birth asphyxia (P21)
096			Respiratory distress of newborn (P22)
097	1		Other respiratory conditions originating in the perinatal period (P23-P28)
098			Congenital pneumonia (P23)
099			Neonatal aspiration syndromes (P24)
100			Interstitial emphysema and related conditions originating in the perinatal period (P25)
101			Pulmonary hemorrhage originating in the perinatal period (P26)
102			Chronic respiratory disease originating in the perinatal period (P27)
103			Atelectasis (P28.0-P28.1)
104			All other respiratory conditions originating in the perinatal period (P28.2-P28.9)
105	1		Infections specific to the perinatal period (P35-P39)
106			Bacterial sepsis of newborn (P36)
107			Omphalitis of newborn with or without mild hemorrhage (P38)

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

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

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

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

158 Other external causes (X60-X84, Y10-Y36)

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, 2011 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	3961220	3953590	23723	23702	24022	24001
Alabama	57891	59354	469	487	470	488
Alaska	11339	11456	40	43	41	44
Arizona	86103	85543	509	506	514	511
Arkansas	37855	38715	265	278	269	282
California	503018	502120	2334	2331	2406	2403
Colorado	65514	65055	377	356	379	358
Connecticut	37988	37281	189	191	190	192
Delaware	11631	11257	98	99	99	100
Dist of Columbia	13836	9295	114	69	114	69
Florida	213716	213414	1389	1377	1391	1379
Georgia	133828	132409	918	902	924	908
Hawaii	18971	18956	94	96	98	100
Idaho	21859	22305	105	111	107	113
Illinois	157737	161312	1010	1053	1015	1058
Indiana	84582	83701	625	633	630	638
Iowa	38040	38214	170	181	170	181
Kansas	40472	39642	240	246	241	247
Kentucky	53344	55370	330	352	334	356
Louisiana	61983	61888	489	495	503	509
Maine	12564	12704	93	85	93	85
Maryland	70958	73093	470	497	471	498
Massachusetts	73499	73166	318	310	319	311
Michigan	113054	114008	744	745	745	746
Minnesota	68115	68409	339	324	340	325
Mississippi	38938	39860	344	368	344	368
Missouri	77136	76117	531	481	532	482
Montana	12018	12069	72	71	73	72
Nebraska	26095	25720	144	143	145	144
Nevada	35009	35296	196	198	199	201
New Hampshire	13080	12851	50	57	51	58
New Jersey	103033	105883	492	527	503	538
New Mexico	26414	27289	134	145	140	152
New York	119835	121917	660	687	667	694
New York City	123029	119395	566	542	566	542
North Carolina	121557	120389	864	865	866	867
North Dakota	10772	9527	64	62	64	62
Ohio	138581	137918	1107	1084	1126	1102
Oklahoma	51315	52272	365	376	369	380
Oregon	45480	45155	213	205	214	206
Pennsylvania	142527	143178	957	929	957	929
Rhode Island	11729	10960	78	70	78	70
South Carolina	54837	57393	399	417	402	420
South Dakota	12470	11846	79	72	79	72
Tennessee	84412	79588	650	586	656	592
Texas	384116	377445	2070	2042	2165	2135
Utah	52326	51223	292	281	292	281
Vermont	5702	6078	29	30	29	30
Virginia	101032	102652	677	696	678	697
Washington	86954	86976	389	394	391	396
West Virginia	20959	20717	138	135	139	136
Wisconsin	67255	67810	406	423	406	423
Wyoming	6712	7399	28	49	28	49
Foreign Residents	-	7630	-	21	-	21
Puerto Rico	41130	41080	351	344	351	344
Virgin Islands	1544	1491	10	12	10	12
Guam	3297	3294	41	41	41	41

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, 2011 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.....	3,953,590	6,572	10,236	11,338	13,318	16,293	62,585	200,608	3,630,952	1,688
Infant deaths.....	24,001	5,561	4,209	1,454	817	711	1,559	1,998	7,548	143
Infant mortality rate....	6.07	846.17	411.20	128.24	61.35	43.64	24.91	9.96	2.08	84.72
Male										
Live births.....	2,024,052	3,328	5,090	5,945	6,796	8,193	30,465	91,950	1,871,388	897
Infant deaths.....	13,326	2,868	2,391	876	480	387	809	1,074	4,346	96
Infant mortality rate....	6.58	861.78	469.74	147.35	70.63	47.24	26.56	11.68	2.32	107.02
Female										
Live births.....	1,929,538	3,244	5,146	5,393	6,522	8,100	32,120	108,658	1,759,564	791
Infant deaths.....	10,674	2,693	1,819	578	337	324	750	924	3,202	47
Infant mortality rate....	5.53	830.15	353.48	107.18	51.67	40.00	23.35	8.50	1.82	59.42
White										
Both sexes										
Live births.....	3,020,355	3,630	5,851	6,880	8,414	10,694	42,251	135,997	2,805,255	1,383
Infant deaths.....	15,453	3,119	2,519	932	542	481	1,062	1,390	5,338	70
Infant mortality rate....	5.12	859.23	430.52	135.47	64.42	44.98	25.14	10.22	1.90	50.61
Male										
Live births.....	1,547,927	1,834	2,931	3,599	4,344	5,395	20,708	62,660	1,445,734	722
Infant deaths.....	8,576	1,601	1,417	557	333	252	555	753	3,065	43
Infant mortality rate....	5.54	872.96	483.45	154.77	76.66	46.71	26.80	12.02	2.12	59.56
Female										
Live births.....	1,472,428	1,796	2,920	3,281	4,070	5,299	21,543	73,337	1,359,521	661
Infant deaths.....	6,877	1,518	1,102	375	209	229	507	637	2,273	26
Infant mortality rate....	4.67	845.21	377.40	114.29	51.35	43.22	23.53	8.69	1.67	39.33
Black										
Both sexes										
Live births.....	632,901	2,573	3,794	3,755	4,074	4,417	15,708	48,133	550,255	192
Infant deaths.....	7,058	2,116	1,434	444	233	185	383	487	1,721	55
Infant mortality rate....	11.15	822.39	377.97	118.24	57.19	41.88	24.38	10.12	3.13	286.46
Male										
Live births.....	321,666	1,297	1,856	1,968	2,019	2,228	7,443	21,444	283,306	105
Infant deaths.....	3,927	1,089	830	273	123	109	199	264	1,000	40
Infant mortality rate....	12.21	839.63	447.20	138.72	60.92	48.92	26.74	12.31	3.53	380.95
Female										
Live births.....	311,235	1,276	1,938	1,787	2,055	2,189	8,265	26,689	266,949	87
Infant deaths.....	3,131	1,028	604	172	110	77	184	222	720	15
Infant mortality rate....	10.06	805.64	311.66	96.25	53.53	35.18	22.26	8.32	2.70	*

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child: United States, 2011 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.....	46,419	70	103	119	146	183	678	2,216	42,884	20
Infant deaths.....	381	62	47	16	9	7	27	29	174	9
Infant mortality rate....	8.21	885.71	456.31	*	*	*	39.82	13.09	4.06	*
Male										
Live births.....	23,730	38	51	68	75	88	313	1,044	22,040	13
Infant deaths.....	208	37	24	9	4	6	12	15	95	5
Infant mortality rate....	8.77	973.68	470.59	*	*	*	*	*	4.31	*
Female										
Live births.....	22,689	32	52	51	71	95	365	1,172	20,844	7
Infant deaths.....	173	25	23	6	5	1	15	14	79	4
Infant mortality rate....	7.62	781.25	442.31	*	*	*	*	*	3.79	*
Asian or Pacific Islander										
Both sexes										
Live births.....	253,915	299	488	584	684	999	3,948	14,262	232,558	93
Infant deaths.....	1,108	263	209	62	33	38	87	92	316	9
Infant mortality rate....	4.36	879.60	428.28	106.16	48.25	38.04	22.04	6.45	1.36	*
Male										
Live births.....	130,729	159	252	310	358	482	2,001	6,802	120,308	57
Infant deaths.....	616	141	119	38	19	20	43	42	187	7
Infant mortality rate....	4.71	886.79	472.22	122.58	*	41.49	21.49	6.17	1.55	*
Female										
Live births.....	123,186	140	236	274	326	517	1,947	7,460	112,250	36
Infant deaths.....	493	122	90	24	13	17	44	51	129	2
Infant mortality rate....	4.00	871.43	381.36	87.59	*	*	22.60	6.84	1.15	*

* 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, 2011 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	3,953,590	28,762	47,437	59,831	327,133	2,173,866	761,804	330,066	219,845	4,846
Infant deaths	24,001	10,782	1,917	952	2,312	5,241	1,342	682	549	223
Infant mortality rate	6.07	374.87	40.41	15.91	7.07	2.41	1.76	2.07	2.50	46.02
Less than 2,500 grams										
Live births	320,950	27,655	36,289	40,512	106,444	88,645	10,521	4,638	5,821	425
Infant deaths	16,310	10,765	1,845	816	1,382	1,071	160	101	116	53
Infant mortality rate	50.82	389.26	50.84	20.14	12.98	12.08	15.21	21.78	19.93	124.71
Less than 500 grams										
Live births	6,572	6,294	203	7	12	16	2	1	3	34
Infant deaths	5,561	5,369	142	4	7	10	1	-	3	25
Infant mortality rate	846.17	853.03	699.51	*	*	*	*	-	*	735.29
500-749 grams										
Live births	10,236	8,938	1,145	53	34	24	1	5	8	28
Infant deaths	4,209	3,904	252	15	16	6	1	4	4	7
Infant mortality rate	411.20	436.79	220.09	*	*	*	*	*	*	*
750-999 grams										
Live births	11,338	7,104	3,714	253	117	93	22	4	10	21
Infant deaths	1,454	1,064	326	31	19	7	1	1	2	3
Infant mortality rate	128.24	149.77	87.78	122.53	*	*	*	*	*	*
1,000-1,249 grams										
Live births	13,318	3,064	7,419	1,439	705	403	114	56	96	22
Infant deaths	817	258	374	80	62	20	6	5	8	3
Infant mortality rate	61.35	84.20	50.41	55.59	87.94	49.63	*	*	*	*
1,250-1,499 grams										
Live births	16,293	852	8,638	3,554	2,103	713	164	89	160	20
Infant deaths	711	88	310	107	139	46	5	5	9	2
Infant mortality rate	43.64	103.29	35.89	30.11	66.10	64.52	*	*	*	*
1,500-1,999 grams										
Live births	62,585	788	11,557	18,560	21,807	7,613	939	450	797	74
Infant deaths	1,559	63	342	332	443	276	42	26	27	8
Infant mortality rate	24.91	79.95	29.59	17.89	20.31	36.25	44.73	57.78	33.88	*
2,000-2,499 grams										
Live births	200,608	615	3,613	16,646	81,666	79,783	9,279	4,033	4,747	226
Infant deaths	1,998	19	99	248	695	706	103	59	63	5
Infant mortality rate	9.96	*	27.40	14.90	8.51	8.85	11.10	14.63	13.27	*
2,500-2,999 grams										
Live births	728,579	1,107	3,957	8,208	109,874	449,865	89,129	34,528	31,212	699
Infant deaths	2,630	17	47	70	551	1,457	256	116	105	12
Infant mortality rate	3.61	*	11.88	8.53	5.01	3.24	2.87	3.36	3.36	*
3,000-3,499 grams										
Live births	1,546,032	-	4,705	7,134	76,076	934,091	311,153	124,307	87,423	1,143
Infant deaths	2,971	-	15	48	255	1,708	508	247	185	6
Infant mortality rate	1.92	-	*	6.73	3.35	1.83	1.63	1.99	2.12	*

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United States, 2011 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	1,049,353	-	2,486	3,283	27,978	556,297	266,601	121,082	70,968	658
Infant deaths	1,465	-	10	13	87	782	307	163	100	3
Infant mortality rate	1.40	-	*	*	3.11	1.41	1.15	1.35	1.41	*
4,000-4,499 grams										
Live births	265,164	-	-	588	5,652	125,300	73,659	38,934	20,842	189
Infant deaths	380	-	-	5	25	177	94	40	35	3
Infant mortality rate	1.43	-	-	*	4.42	1.41	1.28	1.03	1.68	*
4,500-4,999 grams										
Live births	37,486	-	-	89	939	17,364	9,850	5,986	3,224	34
Infant deaths	81	-	-	-	10	35	16	11	7	1
Infant mortality rate	2.16	-	-	-	*	2.02	*	*	*	*
5,000 grams or more										
Live births	4,338	-	-	17	170	2,304	891	591	355	10
Infant deaths	20	-	-	-	1	11	1	4	1	2
Infant mortality rate	4.61	-	-	-	*	*	*	*	*	*
Not stated										
Live births	1,688	-	-	-	-	-	-	-	-	1,688
Infant deaths	143	-	-	-	-	-	-	-	-	143
Infant mortality rate	84.72	-	-	-	-	-	-	-	-	84.72
White										
Total										
Live births	3,020,355	16,765	31,666	41,628	236,249	1,659,045	596,831	262,393	172,216	3,562
Infant deaths	15,453	6,307	1,267	636	1,612	3,679	955	483	395	120
Infant mortality rate	5.12	376.20	40.01	15.28	6.82	2.22	1.60	1.84	2.29	33.69
Less than 2,500 grams										
Live births	213,717	16,084	24,050	28,242	73,145	58,012	6,986	3,055	3,889	254
Infant deaths	10,045	6,295	1,212	548	971	725	115	69	80	31
Infant mortality rate	47.00	391.38	50.40	19.40	13.28	12.50	16.46	22.59	20.57	122.05
Less than 500 grams										
Live births	3,630	3,451	130	6	6	13	2	-	3	19
Infant deaths	3,119	2,995	88	4	6	9	1	-	3	13
Infant mortality rate	859.23	867.86	676.92	*	*	*	*	-	*	*
500-749 grams										
Live births	5,851	5,090	673	29	23	12	1	2	6	15
Infant deaths	2,519	2,337	152	6	11	3	1	2	4	2
Infant mortality rate	430.52	459.14	225.85	*	*	*	*	*	*	*
750-999 grams										
Live births	6,880	4,249	2,283	172	70	68	19	1	8	10
Infant deaths	932	682	215	18	8	6	1	-	2	-
Infant mortality rate	135.47	160.51	94.17	*	*	*	*	-	*	-
1,000-1,249 grams										
Live births	8,414	1,909	4,715	910	450	249	74	33	60	14
Infant deaths	542	169	247	53	47	12	5	2	4	3
Infant mortality rate	64.42	88.53	52.39	58.24	104.44	*	*	*	*	*

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, 2011 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	10,694	537	5,712	2,302	1,416	458	99	59	98	13
Infant deaths	481	61	197	73	108	30	2	3	5	2
Infant mortality rate	44.98	113.59	34.49	31.71	76.27	65.50	*	*	*	*
1,500-1,999 grams										
Live births	42,251	457	8,104	12,752	14,441	4,971	630	306	544	46
Infant deaths	1,062	38	238	223	289	198	33	20	16	7
Infant mortality rate	25.14	83.15	29.37	17.49	20.01	39.83	52.38	65.36	*	*
2,000-2,499 grams										
Live births	135,997	391	2,433	12,071	56,739	52,241	6,161	2,654	3,170	137
Infant deaths	1,390	13	75	170	502	467	72	41	46	4
Infant mortality rate	10.22	*	30.83	14.08	8.85	8.94	11.69	15.45	14.51	*
2,500-2,999 grams										
Live births	503,619	681	2,474	5,455	79,421	308,762	60,905	23,770	21,712	439
Infant deaths	1,778	12	36	47	380	990	160	78	67	7
Infant mortality rate	3.53	*	14.55	8.62	4.78	3.21	2.63	3.28	3.09	*
3,000-3,499 grams										
Live births	1,175,389	-	3,235	4,891	56,605	710,409	236,930	95,639	66,898	782
Infant deaths	2,075	-	11	27	169	1,211	350	167	134	6
Infant mortality rate	1.77	-	*	5.52	2.99	1.70	1.48	1.75	2.00	*
3,500-3,999 grams										
Live births	863,523	-	1,907	2,491	21,754	458,225	219,506	100,414	58,716	510
Infant deaths	1,113	-	8	9	65	585	243	124	79	1
Infant mortality rate	1.29	-	*	*	2.99	1.28	1.11	1.23	1.35	*
4,000-4,499 grams										
Live births	226,866	-	-	470	4,451	106,922	63,229	33,760	17,877	157
Infant deaths	289	-	-	4	18	133	72	31	28	2
Infant mortality rate	1.27	-	-	*	*	1.24	1.14	0.92	1.57	*
4,500-4,999 grams										
Live births	32,232	-	-	68	745	14,797	8,526	5,250	2,817	29
Infant deaths	67	-	-	-	8	26	14	10	7	1
Infant mortality rate	2.08	-	-	-	*	1.76	*	*	*	*
5,000 grams or more										
Live births	3,626	-	-	11	128	1,918	749	505	307	8
Infant deaths	16	-	-	-	1	8	1	4	-	2
Infant mortality rate	*	-	-	-	*	*	*	*	-	*
Not stated										
Live births	1,383	-	-	-	-	-	-	-	-	1,383
Infant deaths	70	-	-	-	-	-	-	-	-	70
Infant mortality rate	50.61	-	-	-	-	-	-	-	-	50.61
Black										
Total										
Live births	632,901	10,371	12,633	14,132	67,073	344,732	106,480	43,841	32,665	974
Infant deaths	7,058	3,844	528	248	556	1,254	282	144	118	85
Infant mortality rate	11.15	370.65	41.80	17.55	8.29	3.64	2.65	3.28	3.61	87.27

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United States, 2011 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	82,454	10,003	9,862	9,478	24,954	22,588	2,660	1,234	1,530	145
Infant deaths	5,282	3,839	515	209	330	279	32	27	30	21
Infant mortality rate	64.06	383.78	52.22	22.05	13.22	12.35	12.03	21.88	19.61	144.83
Less than 500 grams										
Live births	2,573	2,484	64	1	6	3	-	1	-	14
Infant deaths	2,116	2,058	45	-	1	1	-	-	-	11
Infant mortality rate	822.39	828.50	703.13	-	*	*	-	-	-	*
500-749 grams										
Live births	3,794	3,340	397	20	9	11	-	3	1	13
Infant deaths	1,434	1,330	82	8	4	3	-	2	-	5
Infant mortality rate	377.97	398.20	206.55	*	*	*	-	*	-	*
750-999 grams										
Live births	3,755	2,447	1,174	63	39	17	2	3	1	9
Infant deaths	444	328	92	10	9	1	-	1	-	3
Infant mortality rate	118.24	134.04	78.36	*	*	*	-	*	-	*
1,000-1,249 grams										
Live births	4,074	991	2,233	426	208	127	30	22	31	6
Infant deaths	233	76	107	20	15	8	1	3	3	-
Infant mortality rate	57.19	76.69	47.92	46.95	*	*	*	*	*	-
1,250-1,499 grams										
Live births	4,417	266	2,312	986	508	207	55	26	50	7
Infant deaths	185	23	89	28	25	14	2	2	2	-
Infant mortality rate	41.88	86.47	38.49	28.40	49.21	*	*	*	*	-
1,500-1,999 grams										
Live births	15,708	281	2,718	4,524	5,566	2,019	250	121	205	24
Infant deaths	383	18	81	81	119	62	5	6	10	1
Infant mortality rate	24.38	*	29.80	17.90	21.38	30.71	*	*	*	*
2,000-2,499 grams										
Live births	48,133	194	964	3,458	18,618	20,204	2,323	1,058	1,242	72
Infant deaths	487	6	19	61	156	190	24	13	15	1
Infant mortality rate	10.12	*	*	17.64	8.38	9.40	10.33	*	*	*
2,500-2,999 grams										
Live births	157,805	368	1,211	2,182	22,388	97,562	19,387	7,489	7,000	218
Infant deaths	691	5	8	20	137	381	76	26	32	5
Infant mortality rate	4.38	*	*	9.17	6.12	3.91	3.92	3.47	4.57	*
3,000-3,499 grams										
Live births	246,226	-	1,127	1,783	14,248	148,339	47,861	18,487	14,091	290
Infant deaths	698	-	4	14	66	403	118	58	35	-
Infant mortality rate	2.83	-	*	*	4.63	2.72	2.47	3.14	2.48	-
3,500-3,999 grams										
Live births	118,584	-	433	591	4,488	62,680	29,324	12,973	7,994	101
Infant deaths	258	-	1	4	16	152	39	29	14	2
Infant mortality rate	2.18	-	*	*	*	2.43	1.33	2.24	*	*

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United States, 2011 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	23,935	-	-	81	842	11,671	6,374	3,183	1,761	23
Infant deaths	63	-	-	1	5	30	16	3	6	1
Infant mortality rate	2.63	-	-	*	*	2.57	*	*	*	*
4,500-4,999 grams										
Live births	3,282	-	-	14	129	1,659	784	433	260	3
Infant deaths	9	-	-	-	2	6	1	-	-	-
Infant mortality rate	*	-	-	-	*	*	*	-	-	-
5,000 grams or more										
Live births	423	-	-	3	24	233	90	42	29	2
Infant deaths	2	-	-	-	-	2	-	-	-	-
Infant mortality rate	*	-	-	-	-	*	-	-	-	-
Not stated										
Live births	192	-	-	-	-	-	-	-	-	192
Infant deaths	55	-	-	-	-	-	-	-	-	55
Infant mortality rate	286.46	-	-	-	-	-	-	-	-	286.46
American Indian ¹										
Total										
Live births	46,419	315	664	810	4,468	24,116	8,679	3,992	3,296	79
Infant deaths	381	120	26	15	46	91	39	23	12	9
Infant mortality rate	8.21	380.95	39.16	*	10.30	3.77	4.49	5.76	*	*
Less than 2,500 grams										
Live births	3,515	298	417	459	1,156	921	123	55	75	11
Infant deaths	198	120	25	14	20	13	4	-	1	-
Infant mortality rate	56.33	402.68	59.95	*	17.30	*	*	-	*	-
Less than 500 grams										
Live births	70	67	3	-	-	-	-	-	-	-
Infant deaths	62	59	3	-	-	-	-	-	-	-
Infant mortality rate	885.71	880.60	*	-	-	-	-	-	-	-
500-749 grams										
Live births	103	88	15	-	-	-	-	-	-	-
Infant deaths	47	44	3	-	-	-	-	-	-	-
Infant mortality rate	456.31	500.00	*	-	-	-	-	-	-	-
750-999 grams										
Live births	119	75	40	1	1	1	1	-	-	-
Infant deaths	16	12	4	-	-	-	-	-	-	-
Infant mortality rate	*	*	*	-	-	-	-	-	-	-
1,000-1,249 grams										
Live births	146	31	74	17	12	5	4	1	1	1
Infant deaths	9	1	7	1	-	-	-	-	-	-
Infant mortality rate	*	*	*	*	-	-	-	-	-	-
1,250-1,499 grams										
Live births	183	12	95	39	22	11	1	1	2	-
Infant deaths	7	1	4	-	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, 2011 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	678	15	134	193	242	71	11	2	9	1
Infant deaths	27	3	2	9	11	1	-	-	1	-
Infant mortality rate	39.82	*	*	*	*	*	-	-	*	-
2,000-2,499 grams										
Live births	2,216	10	56	209	879	833	106	51	63	9
Infant deaths	29	-	2	4	8	11	4	-	-	-
Infant mortality rate	13.09	-	*	*	*	*	*	-	-	-
2,500-2,999 grams										
Live births	7,914	17	72	136	1,419	4,523	942	373	420	12
Infant deaths	41	-	1	1	13	19	1	4	2	-
Infant mortality rate	5.18	-	*	*	*	*	*	*	*	-
3,000-3,499 grams										
Live births	17,454	-	116	121	1,214	9,931	3,230	1,512	1,315	15
Infant deaths	74	-	-	-	9	30	20	8	6	-
Infant mortality rate	4.24	-	-	-	*	3.02	6.19	*	*	-
3,500-3,999 grams										
Live births	12,979	-	59	75	518	6,657	3,164	1,450	1,039	17
Infant deaths	42	-	-	-	3	21	11	5	2	-
Infant mortality rate	3.24	-	-	-	*	3.15	*	*	*	-
4,000-4,499 grams										
Live births	3,776	-	-	14	138	1,712	1,014	498	396	4
Infant deaths	13	-	-	-	-	5	2	5	1	-
Infant mortality rate	*	-	-	-	-	*	*	*	*	-
4,500-4,999 grams										
Live births	660	-	-	4	16	313	189	93	45	-
Infant deaths	2	-	-	-	-	1	-	1	-	-
Infant mortality rate	*	-	-	-	-	*	-	*	-	-
5,000 grams or more										
Live births	101	-	-	1	7	59	17	11	6	-
Infant deaths	1	-	-	-	-	1	-	-	-	-
Infant mortality rate	*	-	-	-	-	*	-	-	-	-
Not stated										
Live births	20	-	-	-	-	-	-	-	-	20
Infant deaths	9	-	-	-	-	-	-	-	-	9
Infant mortality rate	*	-	-	-	-	-	-	-	-	*
Asian or Pacific Islander										
Total										
Live births	253,915	1,311	2,474	3,261	19,343	145,973	49,814	19,840	11,668	231
Infant deaths	1,108	511	95	52	99	218	66	32	24	10
Infant mortality rate	4.36	389.78	38.40	15.95	5.12	1.49	1.32	1.61	2.06	*
Less than 2,500 grams										
Live births	21,264	1,270	1,960	2,333	7,189	7,124	752	294	327	15
Infant deaths	783	511	93	45	61	54	8	5	5	1
Infant mortality rate	36.82	402.36	47.45	19.29	8.49	7.58	*	*	*	*

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, 2011 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	299	292	6	-	-	-	-	-	-	1
Infant deaths	263	257	5	-	-	-	-	-	-	1
Infant mortality rate	879.60	880.14	*	-	-	-	-	-	-	*
500-749 grams										
Live births	488	420	60	4	2	1	-	-	1	-
Infant deaths	209	192	15	1	1	-	-	-	-	-
Infant mortality rate	428.28	457.14	*	*	*	-	-	-	-	-
750-999 grams										
Live births	584	333	217	17	7	7	-	-	1	2
Infant deaths	62	43	15	2	2	-	-	-	-	-
Infant mortality rate	106.16	129.13	*	*	*	-	-	-	-	-
1,000-1,249 grams										
Live births	684	133	397	86	35	22	6	-	4	1
Infant deaths	33	12	13	6	-	-	-	-	1	-
Infant mortality rate	48.25	*	*	*	-	-	-	-	*	-
1,250-1,499 grams										
Live births	999	37	519	227	157	37	9	3	10	-
Infant deaths	38	3	20	5	5	1	1	-	2	-
Infant mortality rate	38.04	*	38.54	*	*	*	*	-	*	-
1,500-1,999 grams										
Live births	3,948	35	601	1,091	1,558	552	48	21	39	3
Infant deaths	87	4	21	18	23	15	4	-	-	-
Infant mortality rate	22.04	*	34.94	*	14.76	*	*	-	-	-
2,000-2,499 grams										
Live births	14,262	20	160	908	5,430	6,505	689	270	272	8
Infant deaths	92	-	3	12	29	38	3	5	2	-
Infant mortality rate	6.45	-	*	*	5.34	5.84	*	*	*	-
2,500-2,999 grams										
Live births	59,241	41	200	435	6,646	39,018	7,895	2,896	2,080	30
Infant deaths	120	-	1	1	21	66	19	8	4	-
Infant mortality rate	2.03	-	*	*	3.16	1.69	*	*	*	-
3,000-3,499 grams										
Live births	106,963	-	227	339	4,009	65,412	23,132	8,669	5,119	56
Infant deaths	124	-	-	6	12	64	20	13	9	-
Infant mortality rate	1.16	-	-	*	*	0.98	0.86	*	*	-
3,500-3,999 grams										
Live births	54,267	-	87	126	1,218	28,735	14,607	6,245	3,219	30
Infant deaths	52	-	1	-	3	24	14	4	5	-
Infant mortality rate	0.96	-	*	-	*	0.84	*	*	*	-
4,000-4,499 grams										
Live births	10,587	-	-	23	221	4,995	3,042	1,493	808	5
Infant deaths	15	-	-	-	2	8	4	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, 2011 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	1,312	-	-	3	49	595	351	210	102	2
Infant deaths	3	-	-	-	-	2	1	-	-	-
Infant mortality rate	*	-	-	-	-	*	*	-	-	-
5,000 grams or more										
Live births	188	-	-	2	11	94	35	33	13	-
Infant deaths	1	-	-	-	-	-	-	-	1	-
Infant mortality rate	*	-	-	-	-	-	-	-	*	-
Not stated										
Live births	93	-	-	-	-	-	-	-	-	93
Infant deaths	9	-	-	-	-	-	-	-	-	9
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, 2011 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).....	3,953,590	24,001	16,065	12,960	3,105	7,936
Rate.....		6.07	4.06	3.28	0.79	2.01
Less than 2,500 grams.....	320,950	16,310	13,319	11,346	1,972	2,991
Rate.....		50.82	41.50	35.35	6.14	9.32
Less than 500 grams.....	6,572	5,561	5,417	5,263	154	144
Rate.....		846.17	824.25	800.82	23.43	21.91
500-749 grams.....	10,236	4,209	3,585	2,923	661	624
Rate.....		411.20	350.23	285.56	64.58	60.96
750-999 grams.....	11,338	1,454	1,107	791	316	347
Rate.....		128.24	97.64	69.77	27.87	30.61
1,000-1,249 grams.....	13,318	817	609	442	168	208
Rate.....		61.35	45.73	33.19	12.61	15.62
1,250-1,499 grams.....	16,293	711	507	385	122	205
Rate.....		43.64	31.12	23.63	7.49	12.58
1,500-1,999 grams.....	62,585	1,559	1,029	808	221	530
Rate.....		24.91	16.44	12.91	3.53	8.47
2,000-2,499 grams.....	200,608	1,998	1,065	734	331	933
Rate.....		9.96	5.31	3.66	1.65	4.65
2,500-2,999 grams.....	728,579	2,630	1,022	613	409	1,608
Rate.....		3.61	1.40	0.84	0.56	2.21
3,000-3,499 grams.....	1,546,032	2,971	933	481	452	2,039
Rate.....		1.92	0.60	0.31	0.29	1.32
3,500-3,999 grams.....	1,049,353	1,465	450	249	201	1,016
Rate.....		1.40	0.43	0.24	0.19	0.97
4,000-4,499 grams.....	265,164	380	151	99	52	229
Rate.....		1.43	0.57	0.37	0.20	0.86
4,500-4,999 grams.....	37,486	81	37	24	13	43
Rate.....		2.16	0.99	0.64	*	1.15
5,000 grams or more.....	4,338	20	12	9	3	8
Rate.....		4.61	*	*	*	*
Not stated.....	1,688	143	141	138	3	2
Rate.....		84.72	83.53	81.75	*	*

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, 2011 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).....	3,020,355	15,453	10,355	8,297	2,058	5,098
Rate.....		5.12	3.43	2.75	0.68	1.69
Less than 2,500 grams.....	213,717	10,045	8,339	7,099	1,241	1,706
Rate.....		47.00	39.02	33.22	5.81	7.98
Less than 500 grams.....	3,630	3,119	3,049	2,963	86	70
Rate.....		859.23	839.94	816.25	23.69	19.28
500-749 grams.....	5,851	2,519	2,218	1,834	384	301
Rate.....		430.52	379.08	313.45	65.63	51.44
750-999 grams.....	6,880	932	745	544	201	188
Rate.....		135.47	108.28	79.07	29.22	27.33
1,000-1,249 grams.....	8,414	542	416	321	94	126
Rate.....		64.42	49.44	38.15	11.17	14.98
1,250-1,499 grams.....	10,694	481	365	285	80	116
Rate.....		44.98	34.13	26.65	7.48	10.85
1,500-1,999 grams.....	42,251	1,062	739	588	151	323
Rate.....		25.14	17.49	13.92	3.57	7.64
2,000-2,499 grams.....	135,997	1,390	807	564	243	583
Rate.....		10.22	5.93	4.15	1.79	4.29
2,500-2,999 grams.....	503,619	1,778	739	459	281	1,039
Rate.....		3.53	1.47	0.91	0.56	2.06
3,000-3,499 grams.....	1,175,389	2,075	689	368	320	1,387
Rate.....		1.77	0.59	0.31	0.27	1.18
3,500-3,999 grams.....	863,523	1,113	354	192	162	759
Rate.....		1.29	0.41	0.22	0.19	0.88
4,000-4,499 grams.....	226,866	289	124	82	41	165
Rate.....		1.27	0.55	0.36	0.18	0.73
4,500-4,999 grams.....	32,232	67	32	22	10	34
Rate.....		2.08	0.99	0.68	*	1.05
5,000 grams or more.....	3,626	16	8	7	1	8
Rate.....		*	*	*	*	*
Not stated.....	1,383	70	70	68	2	-
Rate.....		50.61	50.61	49.17	*	-

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, 2011 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).....	632,901	7,058	4,704	3,837	867	2,354
Rate.....		11.15	7.43	6.06	1.37	3.72
Less than 2,500 grams.....	82,454	5,282	4,173	3,554	619	1,109
Rate.....		64.06	50.61	43.10	7.51	13.45
Less than 500 grams.....	2,573	2,116	2,052	1,992	60	64
Rate.....		822.39	797.51	774.19	23.32	24.87
500-749 grams.....	3,794	1,434	1,139	893	246	295
Rate.....		377.97	300.21	235.37	64.84	77.75
750-999 grams.....	3,755	444	300	207	94	144
Rate.....		118.24	79.89	55.13	25.03	38.35
1,000-1,249 grams.....	4,074	233	162	98	64	71
Rate.....		57.19	39.76	24.05	15.71	17.43
1,250-1,499 grams.....	4,417	185	106	72	34	79
Rate.....		41.88	24.00	16.30	7.70	17.89
1,500-1,999 grams.....	15,708	383	218	165	53	164
Rate.....		24.38	13.88	10.50	3.37	10.44
2,000-2,499 grams.....	48,133	487	196	127	68	291
Rate.....		10.12	4.07	2.64	1.41	6.05
2,500-2,999 grams.....	157,805	691	215	108	107	475
Rate.....		4.38	1.36	0.68	0.68	3.01
3,000-3,499 grams.....	246,226	698	168	68	99	531
Rate.....		2.83	0.68	0.28	0.40	2.16
3,500-3,999 grams.....	118,584	258	66	40	26	192
Rate.....		2.18	0.56	0.34	0.22	1.62
4,000-4,499 grams.....	23,935	63	22	12	10	40
Rate.....		2.63	0.92	*	*	1.67
4,500-4,999 grams.....	3,282	9	5	2	3	4
Rate.....		*	*	*	*	*
5,000 grams or more.....	423	2	2	1	1	-
Rate.....		*	*	*	*	-
Not stated.....	192	55	53	52	1	2
Rate.....		286.46	276.04	270.83	*	*

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, 2011 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).....	46,419	381	218	173	45	163
Rate.....		8.21	4.70	3.73	0.97	3.51
Less than 2,500 grams.....	3,515	198	156	129	27	43
Rate.....		56.33	44.38	36.70	7.68	12.23
Less than 500 grams.....	70	62	60	57	3	2
Rate.....		885.71	857.14	814.29	*	*
500-749 grams.....	103	47	43	36	7	4
Rate.....		456.31	417.48	349.51	*	*
750-999 grams.....	119	16	12	5	7	4
Rate.....		*	*	*	*	*
1,000-1,249 grams.....	146	9	7	5	2	2
Rate.....		*	*	*	*	*
1,250-1,499 grams.....	183	7	4	4	-	3
Rate.....		*	*	*	-	*
1,500-1,999 grams.....	678	27	15	11	4	12
Rate.....		39.82	*	*	*	*
2,000-2,499 grams.....	2,216	29	14	10	4	15
Rate.....		13.09	*	*	*	*
2,500-2,999 grams.....	7,914	41	17	13	4	24
Rate.....		5.18	*	*	*	3.03
3,000-3,499 grams.....	17,454	74	23	14	9	51
Rate.....		4.24	1.32	*	*	2.92
3,500-3,999 grams.....	12,979	42	10	7	3	32
Rate.....		3.24	*	*	*	2.47
4,000-4,499 grams.....	3,776	13	2	1	1	11
Rate.....		*	*	*	*	*
4,500-4,999 grams.....	660	2	-	-	-	2
Rate.....		*	-	-	-	*
5,000 grams or more.....	101	1	1	-	1	-
Rate.....		*	*	-	*	-
Not stated.....	20	9	9	9	-	-
Rate.....		*	*	*	-	-

See footnotes at end of table.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2011 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).....	253,915	1,108	787	652	135	321
Rate.....		4.36	3.10	2.57	0.53	1.26
Less than 2,500 grams.....	21,264	783	651	565	86	133
Rate.....		36.82	30.62	26.57	4.04	6.25
Less than 500 grams.....	299	263	255	251	4	8
Rate.....		879.60	852.84	839.46	*	*
500-749 grams.....	488	209	185	161	24	24
Rate.....		428.28	379.10	329.92	49.18	49.18
750-999 grams.....	584	62	51	36	15	11
Rate.....		106.16	87.33	61.64	*	*
1,000-1,249 grams.....	684	33	24	17	7	8
Rate.....		48.25	35.09	*	*	*
1,250-1,499 grams.....	999	38	32	25	7	6
Rate.....		38.04	32.03	25.03	*	*
1,500-1,999 grams.....	3,948	87	56	43	13	30
Rate.....		22.04	14.18	10.89	*	7.60
2,000-2,499 grams.....	14,262	92	48	33	15	44
Rate.....		6.45	3.37	2.31	*	3.09
2,500-2,999 grams.....	59,241	120	51	34	17	70
Rate.....		2.03	0.86	0.57	*	1.18
3,000-3,499 grams.....	106,963	124	53	31	23	71
Rate.....		1.16	0.50	0.29	0.22	0.66
3,500-3,999 grams.....	54,267	52	20	10	9	33
Rate.....		0.96	0.37	*	*	0.61
4,000-4,499 grams.....	10,587	15	3	3	-	12
Rate.....		*	*	*	-	*
4,500-4,999 grams.....	1,312	3	-	-	-	3
Rate.....		*	-	-	-	*
5,000 grams or more.....	188	1	1	1	-	-
Rate.....		*	*	*	-	-
Not stated.....	93	9	9	9	-	-
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, 2011 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	3,953,590	24,001 607.1	16,065 406.3	12,960 327.8	3,105 78.5	7,936 200.7
Congenital malformations (Q00-Q99).....	.	5,016 126.9	3,569 90.3	2,731 69.1	839 21.2	1,447 36.6
Short gestation and low birthweight nec (P07).....	.	4,115 104.1	4,007 101.4	3,921 99.2	86 2.2	108 2.7
Sudden infant death syndrome (R95).....	.	1,905 48.2	180 4.6	29 0.7	151 3.8	1,725 43.6
Maternal complications of pregnancy (P01).....	.	1,598 40.4	1,588 40.2	1,560 39.5	27 0.7	10 *
Accidents (unintentional injures) (V01-X59).....	.	1,167 29.5	130 3.3	41 1.0	90 2.3	1,036 26.2
Complications of placenta, cord, membranes (P02).....	.	991 25.1	976 24.7	950 24.0	26 0.7	15 *
Bacterial sepsis of newborn (P36).....	.	533 13.5	508 12.8	229 5.8	280 7.1	24 0.6
Respiratory distress of newborn (P22).....	.	520 13.2	513 13.0	410 10.4	103 2.6	7 *
Diseases of the circulatory system (I00-I99).....	.	501 12.7	121 3.1	68 1.7	53 1.3	379 9.6
Neonatal hemorrhage (P50-P52, P54).....	.	461 11.7	452 11.4	315 8.0	137 3.5	9 *
All other causes.....	.	7,195 182.0	4,019 101.7	2,706 68.4	1,314 33.2	3,175 80.3
Less than 2,500 grams						
All Causes	320,950	16,310 5,081.8	13,319 4,149.9	11,346 3,535.1	1,972 614.4	2,991 931.9
Congenital malformations (Q00-Q99).....	.	3,070 956.5	2,417 753.1	2,014 627.5	403 125.6	653 203.5
Short gestation and low birthweight nec (P07).....	.	4,021 1,252.8	3,919 1,221.1	3,836 1,195.2	83 25.9	102 31.8
Sudden infant death syndrome (R95).....	.	358 111.5	29 9.0	5 *	24 7.5	329 102.5
Maternal complications of pregnancy (P01).....	.	1,539 479.5	1,530 476.7	1,503 468.3	27 8.4	9 *
Accidents (unintentional injures) (V01-X59).....	.	230 71.7	34 10.6	17 *	16 *	197 61.4
Complications of placenta, cord, membranes (P02).....	.	905 282.0	894 278.5	875 272.6	18 *	11 *
Bacterial sepsis of newborn (P36).....	.	478 148.9	460 143.3	206 64.2	255 79.5	18 *
Respiratory distress of newborn (P22).....	.	511 159.2	504 157.0	402 125.3	102 31.8	7 *
Diseases of the circulatory system (I00-I99).....	.	276 86.0	66 20.6	45 14.0	21 6.5	210 65.4

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, 2011 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).....	.	423 131.8	414 129.0	294 91.6	121 37.7	9 *
All other causes.....	.	4,497 1,401.2	3,051 950.6	2,149 669.6	902 281.0	1,446 450.5
2,500 grams or more						
All Causes	3,630,952	7,548 207.9	2,605 71.7	1,475 40.6	1,130 31.1	4,943 136.1
Congenital malformations (Q00-Q99).....	.	1,939 53.4	1,145 31.5	710 19.6	435 12.0	794 21.9
Short gestation and low birthweight nec (P07).....	.	33 0.9	27 0.7	24 0.7	3 *	6 *
Sudden infant death syndrome (R95).....	.	1,547 42.6	151 4.2	24 0.7	127 3.5	1,396 38.4
Maternal complications of pregnancy (P01).....	.	21 0.6	20 0.6	20 0.6	- -	1 *
Accidents (unintentional injures) (V01-X59).....	.	935 25.8	96 2.6	22 0.6	73 2.0	840 23.1
Complications of placenta, cord, membranes (P02).....	.	79 2.2	75 2.1	67 1.8	8 *	4 *
Bacterial sepsis of newborn (P36).....	.	54 1.5	48 1.3	23 0.6	25 0.7	6 *
Respiratory distress of newborn (P22).....	.	8 *	8 *	7 *	1 *	- -
Diseases of the circulatory system (I00-I99).....	.	224 6.2	55 1.5	23 0.6	32 0.9	169 4.7
Neonatal hemorrhage (P50-P52, P54).....	.	37 1.0	37 1.0	21 0.6	16 *	- -
All other causes.....	.	2,669 73.5	941 25.9	531 14.6	410 11.3	1,728 47.6
Not stated birthweight						
All Causes	1,688	143 8,471.6	141 8,353.1	138 8,175.4	3 *	2 *
Congenital malformations (Q00-Q99).....	.	7 *	7 *	6 *	1 *	- -
Short gestation and low birthweight nec (P07).....	.	60 3,554.5	60 3,554.5	60 3,554.5	- -	- -
Sudden infant death syndrome (R95).....	.	- -	- -	- -	- -	- -
Maternal complications of pregnancy (P01).....	.	37 2,191.9	37 2,191.9	37 2,191.9	- -	- -
Accidents (unintentional injures) (V01-X59).....	.	1 *	1 *	1 *	- -	- -
Complications of placenta, cord, membranes (P02).....	.	7 *	7 *	7 *	- -	- -
Bacterial sepsis of newborn (P36).....	.	- -	- -	- -	- -	- -

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, 2011 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).....	.	1 *	1 *	1 *	- -	- -
Diseases of the circulatory system (I00-I99).....	.	1 *	- -	- -	- -	1 *
Neonatal hemorrhage (P50-P52, P54).....	.	- -	- -	- -	- -	- -
All other causes.....	.	28 1,658.8	27 1,599.5	25 1,481.0	2 *	1 *
White						
All birthweights						
All Causes	3,020,355	15,453 511.6	10,355 342.8	8,297 274.7	2,058 68.1	5,098 168.8
Congenital malformations (Q00-Q99).....	.	3,711 122.9	2,684 88.9	2,077 68.8	607 20.1	1,027 34.0
Short gestation and low birthweight nec (P07).....	.	2,284 75.6	2,231 73.9	2,179 72.1	51 1.7	54 1.8
Sudden infant death syndrome (R95).....	.	1,276 42.2	126 4.2	23 0.8	102 3.4	1,150 38.1
Maternal complications of pregnancy (P01).....	.	938 31.1	930 30.8	914 30.3	16 *	8 *
Accidents (unintentional injures) (V01-X59).....	.	738 24.4	94 3.1	32 1.1	62 2.1	644 21.3
Complications of placenta, cord, membranes (P02).....	.	632 20.9	624 20.7	605 20.0	19 *	8 *
Bacterial sepsis of newborn (P36).....	.	319 10.6	304 10.1	133 4.4	171 5.7	15 *
Respiratory distress of newborn (P22).....	.	347 11.5	343 11.4	279 9.2	64 2.1	4 *
Diseases of the circulatory system (I00-I99).....	.	315 10.4	83 2.7	52 1.7	31 1.0	232 7.7
Neonatal hemorrhage (P50-P52, P54).....	.	325 10.8	317 10.5	221 7.3	96 3.2	8 *
All other causes.....	.	4,567 151.2	2,619 86.7	1,782 59.0	837 27.7	1,947 64.5
Less than 2,500 grams						
All Causes	213,717	10,045 4,700.1	8,339 3,901.9	7,099 3,321.7	1,241 580.7	1,706 798.3
Congenital malformations (Q00-Q99).....	.	2,231 1,043.9	1,796 840.4	1,519 710.8	277 129.6	435 203.5
Short gestation and low birthweight nec (P07).....	.	2,242 1,049.1	2,191 1,025.2	2,142 1,002.3	49 22.9	51 23.9
Sudden infant death syndrome (R95).....	.	208 97.3	17 *	4 *	13 *	191 89.4
Maternal complications of pregnancy (P01).....	.	904 423.0	897 419.7	880 411.8	16 *	7 *

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2011 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 injures) (V01-X59).....	. 128 59.9	30 14.0	15 *	14 *	99 46.3	
Complications of placenta, cord, membranes (P02).....	. 570 266.7	563 263.4	550 257.3	13 *	7 *	
Bacterial sepsis of newborn (P36).....	. 281 131.5	271 126.8	113 52.9	158 73.9	10 *	
Respiratory distress of newborn (P22).....	. 342 160.0	338 158.2	275 128.7	63 29.5	4 *	
Diseases of the circulatory system (I00-I99).....	. 165 77.2	44 20.6	33 15.4	11 *	121 56.6	
Neonatal hemorrhage (P50-P52, P54).....	. 295 138.0	286 133.8	204 95.5	82 38.4	8 *	
All other causes.....	. 2,680 1,254.0	1,907 892.3	1,364 638.2	543 254.1	773 361.7	
2,500 grams or more						
All Causes	2,805,255 190.3	5,338 69.4	1,946 40.3	1,131 29.1	815 120.9	3,392
Congenital malformations (Q00-Q99).....	. 1,474 52.5	882 31.4	553 19.7	329 11.7	592 21.1	
Short gestation and low birthweight nec (P07).....	. 19 *	16 *	14 *	2 *	3 *	
Sudden infant death syndrome (R95).....	. 1,068 38.1	109 3.9	19 *	89 3.2	960 34.2	
Maternal complications of pregnancy (P01).....	. 15 *	14 *	14 *	- -	1 *	
Accidents (unintentional injures) (V01-X59).....	. 609 21.7	64 2.3	16 *	48 1.7	545 19.4	
Complications of placenta, cord, membranes (P02).....	. 59 2.1	58 2.1	52 1.9	6 *	1 *	
Bacterial sepsis of newborn (P36).....	. 39 1.4	34 1.2	20 0.7	13 *	5 *	
Respiratory distress of newborn (P22).....	. 4 *	4 *	3 *	1 *	- -	
Diseases of the circulatory system (I00-I99).....	. 151 5.4	39 1.4	19 *	20 0.7	111 4.0	
Neonatal hemorrhage (P50-P52, P54).....	. 30 1.1	30 1.1	17 *	13 *	- -	
All other causes.....	. 1,870 66.7	696 24.8	403 14.4	293 10.4	1,174 41.9	
Not stated birthweight						
All Causes	1,383 5,061.5	70 5,061.5	70 4,916.8	68 *	2 *	- -
Congenital malformations (Q00-Q99).....	. 6 *	6 *	5 *	1 *	- -	
Short gestation and low birthweight nec (P07).....	. 23 1,663.1	23 1,663.1	23 1,663.1	- -	- -	

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, 2011 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).....	.	19*	19*	19*	-	-
Accidents (unintentional injures) (V01-X59).....	.	-	-	-	-	-
Complications of placenta, cord, membranes (P02).....	.	3*	3*	3*	-	-
Bacterial sepsis of newborn (P36).....	.	-	-	-	-	-
Respiratory distress of newborn (P22).....	.	1*	1*	1*	-	-
Diseases of the circulatory system (I00-I99).....	.	-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	.	-	-	-	-	-
All other causes.....	.	17*	17*	16*	1*	-
Black						
All birthweights						
All Causes	632,901	7,058 1,115.2	4,704 743.2	3,837 606.3	867 137.0	2,354 371.9
Congenital malformations (Q00-Q99).....	.	1,002 158.3	668 105.5	492 77.7	176 27.8	334 52.8
Short gestation and low birthweight nec (P07).....	.	1,574 248.7	1,524 240.8	1,495 236.2	29 4.6	49 7.7
Sudden infant death syndrome (R95).....	.	526 83.1	39 6.2	4 *	35 5.5	486 76.8
Maternal complications of pregnancy (P01).....	.	548 86.6	546 86.3	537 84.8	9 *	2 *
Accidents (unintentional injures) (V01-X59).....	.	352 55.6	26 4.1	4 *	22 3.5	325 51.4
Complications of placenta, cord, membranes (P02).....	.	311 49.1	305 48.2	299 47.2	6 *	6 *
Bacterial sepsis of newborn (P36).....	.	185 29.2	177 28.0	81 12.8	96 15.2	8 *
Respiratory distress of newborn (P22).....	.	141 22.3	138 21.8	102 16.1	36 5.7	3 *
Diseases of the circulatory system (I00-I99).....	.	158 25.0	26 4.1	10 *	16 *	132 20.9
Neonatal hemorrhage (P50-P52, P54).....	.	111 17.5	110 17.4	75 11.9	35 5.5	1 *
All other causes.....	.	2,150 339.7	1,144 180.8	737 116.4	407 64.3	1,007 159.1
Less than 2,500 grams						
All Causes	82,454	5,282 6,406.0	4,173 5,061.0	3,554 4,310.3	619 750.7	1,109 1,345.0

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2011 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).....	. 648	471	377	94	176	
	785.9	571.2	457.2	114.0	213.5	
Short gestation and low birthweight nec (P07).....	. 1,534	1,488	1,460	28	46	
	1,860.4	1,804.6	1,770.7	34.0	55.8	
Sudden infant death syndrome (R95).....	. 129	10	1	9	119	
	156.5	*	*	*	144.3	
Maternal complications of pregnancy (P01).....	. 530	528	519	9	2	
	642.8	640.4	629.4	*	*	
Accidents (unintentional injures) (V01-X59).....	. 91	2	1	1	89	
	110.4	*	*	*	107.9	
Complications of placenta, cord, membranes (P02).....	. 293	290	286	4	3	
	355.3	351.7	346.9	*	*	
Bacterial sepsis of newborn (P36).....	. 173	165	79	86	8	
	209.8	200.1	95.8	104.3	*	
Respiratory distress of newborn (P22).....	. 139	136	100	36	3	
	168.6	164.9	121.3	43.7	*	
Diseases of the circulatory system (I00-I99).....	. 95	14	8	6	81	
	115.2	*	*	*	98.2	
Neonatal hemorrhage (P50-P52, P54).....	. 107	106	73	33	1	
	129.8	128.6	88.5	40.0	*	
All other causes.....	. 1,544	962	650	312	582	
	1,872.6	1,166.7	788.3	378.4	705.8	
2,500 grams or more						
All Causes	550,255	1,721	478	231	247	1,243
		312.8	86.9	42.0	44.9	225.9
Congenital malformations (Q00-Q99).....	. 354	196	114	81	158	
	64.3	35.6	20.7	14.7	28.7	
Short gestation and low birthweight nec (P07).....	. 11	8	7	1	3	
	*	*	*	*	*	
Sudden infant death syndrome (R95).....	. 397	29	3	26	368	
	72.1	5.3	*	4.7	66.9	
Maternal complications of pregnancy (P01).....	. 5	5	5	-	-	
	*	*	*	-	-	
Accidents (unintentional injures) (V01-X59).....	. 261	24	3	21	237	
	47.4	4.4	*	3.8	43.1	
Complications of placenta, cord, membranes (P02).....	. 15	12	10	2	3	
	*	*	*	*	*	
Bacterial sepsis of newborn (P36).....	. 12	12	2	10	-	
	*	*	*	*	-	
Respiratory distress of newborn (P22).....	. 2	2	2	-	-	
	*	*	*	-	-	
Diseases of the circulatory system (I00-I99).....	. 62	12	2	10	50	
	11.3	*	*	*	9.1	
Neonatal hemorrhage (P50-P52, P54).....	. 4	4	2	2	-	
	*	*	*	*	-	
All other causes.....	. 597	173	80	93	424	
	108.5	31.4	14.5	16.9	77.1	

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, 2011 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	192	55	53	52	1	2
		28,645.8	27,604.2	27,083.3	*	*
Congenital malformations (Q00-Q99).....	.	1	1	1	-	-
		*	*	*	-	-
Short gestation and low birthweight nec (P07).....	.	28	28	28	-	-
		14,583.3	14,583.3	14,583.3	-	-
Sudden infant death syndrome (R95).....	.	-	-	-	-	-
		-	-	-	-	-
Maternal complications of pregnancy (P01).....	.	13	13	13	-	-
		*	*	*	-	-
Accidents (unintentional injures) (V01-X59).....	.	-	-	-	-	-
		-	-	-	-	-
Complications of placenta, cord, membranes (P02).....	.	3	3	3	-	-
		*	*	*	-	-
Bacterial sepsis of newborn (P36).....	.	-	-	-	-	-
		-	-	-	-	-
Respiratory distress of newborn (P22).....	.	-	-	-	-	-
		-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	.	1	-	-	-	1
		*	-	-	-	*
Neonatal hemorrhage (P50-P52, P54).....	.	-	-	-	-	-
		-	-	-	-	-
All other causes.....	.	9	8	7	1	1
		*	*	*	*	*
American Indian¹						
All birthweights						
All Causes	46,419	381	218	173	45	163
		820.8	469.6	372.7	96.9	351.1
Congenital malformations (Q00-Q99).....	.	65	52	44	8	12
		140.0	112.0	94.8	*	*
Short gestation and low birthweight nec (P07).....	.	48	46	44	2	2
		103.4	99.1	94.8	*	*
Sudden infant death syndrome (R95).....	.	47	8	1	7	39
		101.3	*	*	*	84.0
Maternal complications of pregnancy (P01).....	.	24	24	23	1	-
		51.7	51.7	49.5	*	-
Accidents (unintentional injures) (V01-X59).....	.	41	6	3	3	35
		88.3	*	*	*	75.4
Complications of placenta, cord, membranes (P02).....	.	11	11	10	1	-
		*	*	*	*	-
Bacterial sepsis of newborn (P36).....	.	6	6	2	4	-
		*	*	*	*	-
Respiratory distress of newborn (P22).....	.	6	6	5	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, 2011 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						
Diseases of the circulatory system (I00-I99).....	.	4 *	3 *	2 *	1 *	1 *
Neonatal hemorrhage (P50-P52, P54).....	.	4 *	4 *	3 *	1 *	- -
All other causes.....	.	124 267.1	51 109.9	35 75.4	15 *	73 157.3
Less than 2,500 grams						
All Causes	3,515	198 5,633.0	156 4,438.1	129 3,670.0	27 768.1	43 1,223.3
Congenital malformations (Q00-Q99).....	.	42 1,194.9	34 967.3	29 825.0	5 *	7 *
Short gestation and low birthweight nec (P07).....	.	42 1,194.9	40 1,138.0	38 1,081.1	2 *	2 *
Sudden infant death syndrome (R95).....	.	10 *	2 *	- -	2 *	8 *
Maternal complications of pregnancy (P01).....	.	20 569.0	20 569.0	19 *	1 *	- -
Accidents (unintentional injures) (V01-X59).....	.	6 *	1 *	1 *	- -	5 *
Complications of placenta, cord, membranes (P02).....	.	8 *	8 *	7 *	1 *	- -
Bacterial sepsis of newborn (P36).....	.	6 *	6 *	2 *	4 *	- -
Respiratory distress of newborn (P22).....	.	5 *	5 *	4 *	1 *	- -
Diseases of the circulatory system (I00-I99).....	.	2 *	1 *	1 *	- -	1 *
Neonatal hemorrhage (P50-P52, P54).....	.	4 *	4 *	3 *	1 *	- -
All other causes.....	.	53 1,507.8	33 938.8	24 682.8	9 *	19 *
2,500 grams or more						
All Causes	42,884	174 405.7	54 125.9	35 81.6	18 *	120 279.8
Congenital malformations (Q00-Q99).....	.	23 53.6	18 *	15 *	3 *	5 *
Short gestation and low birthweight nec (P07).....	.	1 *	1 *	1 *	- -	- -
Sudden infant death syndrome (R95).....	.	37 86.3	6 *	1 *	5 *	31 72.3
Maternal complications of pregnancy (P01).....	.	- -	- -	- -	- -	- -
Accidents (unintentional injures) (V01-X59).....	.	35 81.6	5 *	2 *	3 *	30 70.0
Complications of placenta, cord, membranes (P02).....	.	3 *	3 *	3 *	- -	- -

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2011 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						
Bacterial sepsis of newborn (P36).....	.	-	-	-	-	-
Respiratory distress of newborn (P22).....	.	1 *	1 *	1 *	-	-
Diseases of the circulatory system (I00-I99).....	.	2 *	2 *	1 *	1 *	-
Neonatal hemorrhage (P50-P52, P54).....	.	-	-	-	-	-
All other causes.....	.	71 165.6	17 *	11 *	6 *	54 125.9
Not stated birthweight						
All Causes	20	9 *	9 *	9 *	-	-
Congenital malformations (Q00-Q99).....	.	-	-	-	-	-
Short gestation and low birthweight nec (P07).....	.	5 *	5 *	5 *	-	-
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.....	.	-	-	-	-	-
Asian or Pacific Islander						
All birthweights						
All Causes	253,915	1,108 436.4	787 309.9	652 256.8	135 53.2	321 126.4
Congenital malformations (Q00-Q99).....	.	238 93.7	165 65.0	117 46.1	48 18.9	73 28.7
Short gestation and low birthweight nec (P07).....	.	209 82.3	206 81.1	203 79.9	3 *	3 *
Sudden infant death syndrome (R95).....	.	56 22.1	7 *	1 *	6 *	48 18.9

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, 2011 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).....	.	87 34.3	87 34.3	86 33.9	1 *	- -
Accidents (unintentional injures) (V01-X59).....	.	37 14.6	4 *	2 *	2 *	33 13.0
Complications of placenta, cord, membranes (P02).....	.	37 14.6	36 14.2	36 14.2	- -	1 *
Bacterial sepsis of newborn (P36).....	.	22 8.7	21 8.3	12 *	8 *	1 *
Respiratory distress of newborn (P22).....	.	27 10.6	27 10.6	25 9.8	2 *	- -
Diseases of the circulatory system (I00-I99).....	.	23 9.1	9 *	4 *	5 *	14 *
Neonatal hemorrhage (P50-P52, P54).....	.	20 7.9	20 7.9	15 *	5 *	- -
All other causes.....	.	354 139.4	206 81.1	151 59.5	54 21.3	148 58.3
Less than 2,500 grams						
All Causes	21,264	783 3,682.3	651 3,061.5	565 2,657.1	86 404.4	133 625.5
Congenital malformations (Q00-Q99).....	.	150 705.4	115 540.8	89 418.5	26 122.3	34 159.9
Short gestation and low birthweight nec (P07).....	.	203 954.7	200 940.6	197 926.4	3 *	3 *
Sudden infant death syndrome (R95).....	.	11 *	- -	- -	- -	11 *
Maternal complications of pregnancy (P01).....	.	85 399.7	85 399.7	84 395.0	1 *	- -
Accidents (unintentional injures) (V01-X59).....	.	5 *	1 *	- -	1 *	4 *
Complications of placenta, cord, membranes (P02).....	.	34 159.9	33 155.2	33 155.2	- -	1 *
Bacterial sepsis of newborn (P36).....	.	18 *	18 *	11 *	7 *	- -
Respiratory distress of newborn (P22).....	.	26 122.3	26 122.3	24 112.9	2 *	- -
Diseases of the circulatory system (I00-I99).....	.	14 *	7 *	3 *	4 *	7 *
Neonatal hemorrhage (P50-P52, P54).....	.	17 *	17 *	13 *	4 *	- -
All other causes.....	.	221 1,039.3	149 700.7	112 526.7	37 174.0	72 338.6
2,500 grams or more						
All Causes	232,558	316 135.9	127 54.6	78 33.5	49 21.1	188 80.8
Congenital malformations (Q00-Q99).....	.	88 37.8	50 21.5	28 12.0	22 9.5	38 16.3

See footnotes at end of table.

Documentation Table 5

Infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2011 period data -Cont

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

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
Asian or Pacific Islander						
Short gestation and low birthweight nec (P07).....	.	2 *	2 *	2 *	-	-
Sudden infant death syndrome (R95).....	.	44 18.9	7 *	1 *	6 *	37 15.9
Maternal complications of pregnancy (P01).....	.	1 *	1 *	1 *	-	-
Accidents (unintentional injures) (V01-X59).....	.	31 13.3	2 *	1 *	1 *	29 12.5
Complications of placenta, cord, membranes (P02).....	.	2 *	2 *	2 *	-	-
Bacterial sepsis of newborn (P36).....	.	3 *	2 *	1 *	1 *	1 *
Respiratory distress of newborn (P22).....	.	1 *	1 *	1 *	-	-
Diseases of the circulatory system (I00-I99).....	.	9 *	2 *	1 *	1 *	7 *
Neonatal hemorrhage (P50-P52, P54).....	.	3 *	3 *	2 *	1 *	-
All other causes.....	.	131 56.3	55 23.7	38 16.3	17 *	76 32.7
Not stated birthweight						
All Causes	93	9 *	9 *	9 *	-	-
Congenital malformations (Q00-Q99).....	.	-	-	-	-	-
Short gestation and low birthweight nec (P07).....	.	4 *	4 *	4 *	-	-
Sudden infant death syndrome (R95).....	.	-	-	-	-	-
Maternal complications of pregnancy (P01).....	.	1 *	1 *	1 *	-	-
Accidents (unintentional injures) (V01-X59).....	.	1 *	1 *	1 *	-	-
Complications of placenta, cord, membranes (P02).....	.	1 *	1 *	1 *	-	-
Bacterial sepsis of newborn (P36).....	.	-	-	-	-	-
Respiratory distress of newborn (P22).....	.	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	.	-	-	-	-	-
Neonatal hemorrhage (P50-P52, P54).....	.	-	-	-	-	-
All other causes.....	.	2 *	2 *	2 *	-	-

*/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, 2011

[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 2011 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	229	213	16	70
White	188	142	131	11	46
Black	92	74	72	2	18
Alabama					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Alaska					
Total	1	-	-	-	1
White	-	-	-	-	-
Black	1	-	-	-	1
Arizona					
Total	7	-	-	-	7
White	4	-	-	-	4
Black	1	-	-	-	1
Arkansas					
Total	2	1	1	-	1
White	2	1	1	-	1
Black	-	-	-	-	-
California					
Total	93	69	63	6	24
White	63	48	45	3	15
Black	13	8	8	-	5
Colorado					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Connecticut					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
Delaware					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Dist of Columbia					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Florida					
Total	1	1	1	-	-
White	-	-	-	-	-
Black	1	1	1	-	-
Georgia					
Total	13	6	5	1	7
White	7	2	1	1	5
Black	6	4	4	-	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, 2011

[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 2011 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	5	4	4	-	1
White	4	3	3	-	1
Black	1	1	1	-	-
Indiana					
Total	5	4	4	-	1
White	4	3	3	-	1
Black	1	1	1	-	-
Iowa					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Kansas					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Kentucky					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
Louisiana					
Total	13	11	10	1	2
White	3	2	2	-	1
Black	10	9	8	1	1
Maine					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Maryland					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Massachusetts					
Total	1	1	1	-	-
White	-	-	-	-	-
Black	1	1	1	-	-
Michigan					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Minnesota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Mississippi					
Total	2	-	-	-	2
White	1	-	-	-	1
Black	1	-	-	-	1

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2011

[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 2011 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	4	2	2	-	2
White	4	2	2	-	2
Black	-	-	-	-	-
Montana					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Nebraska					
Total	1	1	1	-	-
White	1	1	1	-	-
Black	-	-	-	-	-
Nevada					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
New Hampshire					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
New Jersey					
Total	11	11	10	1	-
White	7	7	6	1	-
Black	4	4	4	-	-
New Mexico					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
New York					
Total	3	2	2	-	1
White	2	1	1	-	1
Black	1	1	1	-	-
New York City					
Total	2	2	2	-	-
White	-	-	-	-	-
Black	2	2	2	-	-
North Carolina					
Total	4	2	2	-	2
White	3	1	1	-	2
Black	1	1	1	-	-
North Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Ohio					
Total	20	15	13	2	5
White	11	8	6	2	3
Black	9	7	7	-	2
Oklahoma					
Total	8	4	3	1	4
White	7	4	3	1	3
Black	1	-	-	-	1

Documentation Table 6. Unlinked infant deaths by race, age at death, and state of residence: United States and each state, 2011

[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 2011 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Oregon					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Pennsylvania					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Rhode Island					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
South Carolina					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
South Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Tennessee					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Texas					
Total	99	92	88	4	7
White	61	58	55	3	3
Black	38	34	33	1	4
Utah					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
Vermont					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Virginia					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Washington					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
West Virginia					
Total	1	1	1	-	-
White	1	1	1	-	-
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, 2011

[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 2011 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	3	2	2	-	1
White	3	2	2	-	1
Black	-	-	-	-	-
Virgin Islands					
Total	1	-	-	-	1
White	-	-	-	-	-
Black	1	-	-	-	1
Guam					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-

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

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

I- Table 1. Infant mortality rates, live births, and infant deaths by selected characteristics and Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: United States, 2011 linked file

Characteristics	Non-Hispanic					Hispanic				
	All origins ¹	White	Black	American Indian or Alaska Native ²	Asian or Pacific Islander	Total	Mexican	Puerto Rican	Cuban	Central and South American
	Infant mortality rates per 1,000 live births in specified group									
Total	6.07	5.07	11.45	8.21	4.36	5.15	4.99	7.85	4.32	4.35
Age at death										
Total neonatal	4.06	3.31	7.62	4.70	3.10	3.63	3.51	5.28	3.44	3.23
Early neonatal (< 7 days)	3.28	2.63	6.22	3.73	2.57	2.92	2.84	4.15	2.80	2.69
Late neonatal (7-27 days)	0.79	0.68	1.40	0.97	0.53	0.70	0.68	1.13	*	0.54
Postneonatal	2.01	1.76	3.83	3.51	1.26	1.52	1.48	2.55	*	1.12
Sex										
Male	6.58	5.53	12.53	8.77	4.71	5.51	5.33	8.67	4.67	4.59
Female	5.53	4.59	10.35	7.62	4.00	4.79	4.64	6.96	3.95	4.10
Plurality										
Single births	5.38	4.43	10.25	7.53	3.76	4.68	4.58	6.78	3.68	3.90
Plural births	25.31	21.15	41.68	36.20	22.51	24.32	23.71	39.17	*	21.26
Birthweight										
Less than 2,500 grams	50.82	44.79	64.16	56.33	36.82	51.27	52.45	59.68	45.19	47.80
Less than 1,500 grams	220.80	204.85	236.56	228.66	198.10	229.14	238.55	262.76	219.73	204.33
1,500-2,499 grams	13.51	13.65	13.47	19.70	9.83	13.99	15.07	14.37	*	11.84
2,500 grams or more	2.08	2.01	3.21	4.06	1.36	1.64	1.64	2.13	*	1.22
Period of gestation										
Less than 37 weeks	34.47	29.85	50.24	33.24	28.72	29.93	29.42	41.11	27.37	26.19
Less than 32 weeks	166.66	154.01	190.16	150.15	160.37	156.80	156.71	197.00	135.80	139.26
32-33 weeks	15.91	15.88	17.59	*	15.95	14.08	13.82	20.92	*	9.71
34-36 weeks	7.07	7.14	8.23	10.30	5.12	6.14	6.34	6.15	*	4.95
37-41 weeks	2.22	2.11	3.48	4.16	1.47	1.85	1.83	2.75	*	1.44
37-38 weeks	2.92	2.83	4.38	4.34	1.89	2.31	2.28	2.86	*	2.08
39-41 weeks	1.91	1.81	2.98	4.07	1.26	1.62	1.62	2.69	*	1.13
42 weeks or more	2.50	2.42	3.77	*	2.06	1.93	2.25	*	*	*
Age of mother										
Under 20 years	8.67	8.23	12.11	8.99	8.31	6.54	6.31	9.47	*	5.72
20-24 years	7.08	6.22	11.31	8.80	6.51	5.24	4.90	7.72	6.25	4.72
25-29 years	5.48	4.67	10.89	6.49	3.79	4.60	4.41	7.36	*	4.05
30-34 years	4.93	4.00	11.39	8.27	3.69	4.56	4.62	6.84	*	3.71
35-39 years	5.64	4.67	11.86	8.51	4.41	5.29	5.13	10.10	*	4.36
40-54 years	7.58	6.12	14.76	*	5.70	7.82	8.12	*	*	6.56
Live-birth order										
1	6.02	4.91	11.66	6.41	4.12	5.59	5.57	8.07	4.88	4.52
2	5.29	4.57	10.16	7.56	3.93	4.46	4.37	6.45	3.57	3.94
3	6.03	5.29	10.95	9.99	4.74	4.63	4.31	7.54	*	4.07
4	7.15	6.25	12.28	8.26	6.13	5.53	4.94	10.54	*	5.67
5 or more	9.11	7.79	13.97	12.19	9.01	6.98	6.96	10.73	*	5.17
Marital status										
Married	4.69	4.23	9.64	5.86	3.95	4.62	4.64	6.56	3.95	3.91
Unmarried	8.09	7.13	12.15	9.41	6.36	5.62	5.32	8.54	4.72	4.78
Mother's place of birth										
Born in the 50 States and D.C	6.39	5.12	11.87	8.33	5.45	5.69	5.38	7.98	4.57	4.65
Born elsewhere	4.65	3.61	7.69	*	3.99	4.65	4.66	7.40	4.09	4.26

See footnotes at end of table.

I - Table 1. Infant mortality rates, live births, and infant deaths by selected characteristics and Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: United States, 2011 linked file--Con.

Characteristics	Non-Hispanic					Hispanic				
	All origins ¹	White	Black	American Indian or Alaska Native ²	Asian or Pacific Islander	Total	Mexican	Puerto Rican	Cuban	Central and South American
	Live births									
Total	3,953,590	2,146,566	582,345	46,419	253,915	918,129	566,699	67,018	17,131	136,221
Sex										
Male	2,024,052	1,102,161	295,948	23,730	130,729	468,150	289,381	34,267	8,785	69,120
Female	1,929,538	1,044,405	286,397	22,689	123,186	449,979	277,318	32,751	8,346	67,101
Plurality										
Single births	3,816,904	2,064,258	560,030	45,314	245,696	896,170	554,509	64,797	16,596	132,646
Plural births	136,686	82,308	22,315	1,105	8,219	21,959	12,190	2,221	535	3,575
Birthweight										
Less than 2,500 grams	320,950	152,566	77,925	3,515	21,264	64,653	37,219	6,552	1,217	9,142
Less than 1,500 grams	57,757	24,847	17,708	621	3,054	11,203	6,225	1,195	223	1,708
1,500-2,499 grams	263,193	127,719	60,217	2,894	18,210	53,450	30,994	5,357	994	7,434
2,500 grams or more	3,630,952	1,993,109	504,299	42,884	232,558	853,288	529,454	60,452	15,914	127,009
Not stated	1,688	891	121	20	93	188	26	14	*	70
Period of gestation										
Less than 37 weeks	463,163	225,150	97,543	6,257	26,389	106,884	63,807	8,855	2,119	16,038
Less than 32 weeks	76,199	33,109	21,845	979	3,785	16,154	9,387	1,533	324	2,463
32-33 weeks	59,831	28,645	13,245	810	3,261	13,705	8,174	1,147	253	2,060
34-36 weeks	327,133	163,396	62,453	4,468	19,343	77,025	46,246	6,175	1,542	11,515
37-41 weeks	3,265,736	1,796,185	454,302	36,787	215,627	758,222	470,432	54,218	14,074	111,993
37-38 weeks	1,021,205	528,419	162,978	11,747	69,353	247,458	151,515	17,814	4,887	36,488
39-41 weeks	2,244,531	1,267,766	291,324	25,040	146,274	510,764	318,917	36,404	9,187	75,505
42 weeks or more	219,845	122,851	29,672	3,296	11,668	52,243	32,045	3,905	938	8,049
Not stated	4,846	2,380	828	79	231	780	415	40	*	141
Age of mother										
Under 20 years	333,746	130,198	79,936	6,897	5,773	111,236	72,691	9,401	961	8,913
20-24 years	925,200	451,939	186,229	15,569	27,783	243,724	152,375	21,116	3,837	27,777
25-29 years	1,127,583	647,520	147,708	12,477	70,461	248,269	153,360	17,244	5,022	38,249
30-34 years	986,682	591,266	104,274	7,380	88,660	192,517	115,157	12,130	4,068	36,610
35-39 years	463,849	260,596	50,245	3,292	49,474	98,340	59,076	5,743	2,572	19,487
40-54 years	116,530	65,047	13,953	804	11,764	24,043	14,040	1,384	671	5,185
Live-birth order										
1	1,578,184	904,291	224,947	16,537	113,903	315,396	181,607	26,878	7,988	46,665
2	1,239,690	698,028	162,680	12,427	90,241	274,887	164,672	20,151	6,163	44,629
3	648,351	329,273	97,383	8,208	31,427	181,812	119,962	11,268	1,995	26,060
4	272,058	123,393	47,642	4,603	10,274	86,111	59,927	4,935	607	10,760
5 or more	186,885	79,376	40,811	4,429	6,547	55,308	38,387	3,448	289	6,764
Not stated	28,422	12,205	8,882	215	1,523	4,615	2,144	338	89	1,343
Marital status										
Married	2,345,817	1,523,594	161,466	15,706	210,349	428,462	271,855	23,465	8,871	66,486
Unmarried	1,607,773	622,972	420,879	30,713	43,566	489,667	294,844	43,553	8,260	69,735
Mother's place of birth										
Born in the 50 States and D.C	3,038,183	2,010,389	498,761	43,323	55,418	421,850	249,428	48,355	8,310	21,739
Born elsewhere	901,484	130,884	79,066	3,006	197,208	494,371	316,722	17,979	8,809	114,174
Not stated	13,923	5,293	4,518	90	1,289	1,908	549	684	12	308

See footnotes at end of table.

I - Table 1. Infant mortality rates, live births, and infant deaths by selected characteristics and Hispanic origin of mother and by race of mother for mothers of non-Hispanic origin: United States, 2011 linked file--Con.

Characteristics	All origins ¹	Non-Hispanic				Hispanic				
		White	Black	American Indian or Alaska Native ²	Asian or Pacific Islander	Total	Mexican	Puerto Rican	Cuban	Central and South American
Total	24,001	10,886	6,670	381	1,108	4,732	2,830	526	74	593
Infant deaths										
Age at death										
Total neonatal	16,065	7,103	4,437	218	787	3,332	1,991	354	59	440
Early neonatal (< 7 days)	12,960	5,641	3,621	173	652	2,685	1,607	278	48	367
Late neonatal (7-27 days)	3,105	1,462	816	45	135	647	384	76	11	73
Postneonatal	7,936	3,783	2,233	163	321	1,399	839	171	15	152
Sex										
Male	13,326	6,093	3,708	208	616	2,578	1,543	297	41	317
Female	10,674	4,793	2,963	173	493	2,154	1,288	228	33	275
Plurality										
Single births	20,541	9,144	5,740	341	923	4,197	2,542	439	61	517
Plural births	3,460	1,741	930	40	185	534	289	87	13	76
Birthweight										
Less than 2,500 grams	16,310	6,834	5,000	198	783	3,315	1,952	391	55	437
Less than 1,500 grams	12,753	5,090	4,189	142	605	2,567	1,485	314	49	349
1,500-2,499 grams	3,557	1,744	811	57	179	748	467	77	6	88
2,500 grams or more	7,548	4,003	1,621	174	316	1,399	869	129	19	155
Not stated	143	48	49	9	9	17	9	6	*	*
Period of gestation										
Less than 37 weeks	15,963	6,721	4,901	208	758	3,199	1,877	364	58	420
Less than 32 weeks	12,699	5,099	4,154	147	607	2,533	1,471	302	44	343
32-33 weeks	952	455	233	15	52	193	113	24	4	20
34-36 weeks	2,312	1,167	514	46	99	473	293	38	10	57
37-41 weeks	7,265	3,790	1,582	153	316	1,399	862	149	15	161
37-38 weeks	2,977	1,495	714	51	131	572	345	51	8	76
39-41 weeks	4,288	2,295	868	102	185	827	517	98	7	85
42 weeks or more	549	297	112	12	24	101	72	4	1	12
Not stated	223	79	74	9	10	34	19	8	*	*
Age of mother										
Under 20 years	2,895	1,071	968	62	48	727	459	89	5	51
20-24 years	6,554	2,810	2,106	137	181	1,277	746	163	24	131
25-29 years	6,183	3,023	1,608	81	267	1,143	676	127	18	155
30-34 years	4,869	2,367	1,188	61	327	877	532	83	11	136
35-39 years	2,617	1,217	596	28	218	520	303	58	11	85
40-54 years	883	398	206	12	67	188	114	6	5	34
Live-birth order										
1	9,493	4,436	2,622	106	469	1,764	1,011	217	39	211
2	6,564	3,192	1,653	94	355	1,226	720	130	22	176
3	3,910	1,743	1,066	82	149	841	517	85	7	106
4	1,945	771	585	38	63	476	296	52	5	61
5 or more	1,703	618	570	54	59	386	267	37	*	35
Not stated	385	125	173	7	12	38	20	5	1	3
Marital status										
Married	10,998	6,447	1,557	92	831	1,980	1,261	154	35	260
Unmarried	13,002	4,439	5,113	289	277	2,752	1,569	372	39	333
Mother's place of birth										
Born in the 50 States and D.C.	19,420	10,302	5,922	361	302	2,402	1,343	386	38	101
Born elsewhere	4,196	473	608	15	787	2,299	1,476	133	36	486
Not stated	385	110	141	5	18	30	11	7	*	6

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

- Quantity zero.

1 Includes other and unknown Hispanic origin not stated, not shown separately.

2 Includes Aleuts and Eskimos.

NOTES: Infant deaths are weighted so numbers may not exactly add to totals due to rounding. Not stated responses were included in totals but not distributed among groups for rate computations. Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race.

I - Table 2. Infant mortality rates by race and Hispanic origin of mother: United States and each State, Puerto Rico, Virgin Islands, and Guam, 2009-2011 linked files

[By place of residence]

	Race and Hispanic origin of mother					
	Total	Non-Hispanic White	Non-Hispanic Black	American Indian or Alaska Native ¹	Asian or Pacific Islander	Hispanic
	Infant mortality rates per 1,000 live births in specified group					
United States ²	6.21	5.19	11.78	8.32	4.34	5.23
Alabama	8.41	6.59	12.87	*	*	5.89
Alaska	4.76	3.41	*	6.91	*	*
Arizona	5.96	5.18	11.09	8.71	5.87	5.70
Arkansas	7.37	6.51	11.36	*	*	5.88
California	4.81	4.07	9.50	6.94	4.05	4.67
Colorado	5.89	5.11	12.08	*	6.15	6.17
Connecticut	5.34	3.79	10.69	*	3.66	6.83
Delaware	8.10	6.27	13.63	*	*	5.82
District of Columbia	8.47	3.22	12.02	*	*	5.89
Florida	6.63	5.15	11.77	*	4.47	4.88
Georgia	6.85	5.14	10.58	*	3.42	4.61
Hawaii	5.81	4.01	*	*	6.44	6.90
Idaho	5.12	4.78	*	*	*	6.24
Illinois	6.78	5.20	13.22	*	5.29	5.89
Indiana	7.69	6.89	13.64	*	6.43	6.95
Iowa	4.74	4.45	11.27	*	*	4.46
Kansas	6.52	5.79	13.94	*	6.02	6.16
Kentucky	6.69	6.49	10.10	*	*	5.04
Louisiana	8.20	6.20	11.77	*	6.08	3.64
Maine	5.93	5.96	*	*	*	*
Maryland	6.96	3.92	12.52	*	4.26	4.65
Massachusetts	4.58	3.69	7.02	*	4.47	6.60
Michigan	7.10	5.48	13.96	12.66	4.46	5.21
Minnesota	4.63	4.02	8.30	8.86	4.13	4.95
Mississippi	9.66	6.79	13.40	*	*	5.65
Missouri	6.67	5.63	12.39	*	5.04	6.04
Montana	6.05	5.68	*	8.56	*	*
Nebraska	5.41	4.77	12.19	*	*	5.34
Nevada	5.68	5.50	8.78	*	4.29	5.29
New Hampshire	4.45	4.30	*	*	*	*
New Jersey	5.03	3.32	11.59	*	3.68	4.75
New Mexico	5.49	4.85	13.99	6.26	*	5.22
New York	5.19	4.02	9.80	9.25	3.28	5.00
North Carolina	7.41	5.37	13.32	10.86	4.69	5.83
North Dakota	6.55	5.44	*	16.62	*	*
Ohio	7.80	6.43	14.35	*	4.40	7.13
Oklahoma	7.56	6.93	12.17	9.34	5.16	6.12
Oregon	4.80	4.67	8.15	8.22	4.92	4.24
Pennsylvania	6.94	5.29	12.60	*	4.12	8.02
Rhode Island	6.46	5.21	12.77	*	*	4.89
South Carolina	7.21	5.10	11.59	*	*	5.20
South Dakota	6.64	5.60	*	11.60	*	*
Tennessee	7.77	6.38	13.36	*	4.08	5.99
Texas	5.93	5.38	10.60	*	4.21	5.37
Utah	5.20	4.98	*	*	6.93	5.42
Vermont	5.12	5.17	*	*	*	*
Virginia	6.92	5.15	12.77	*	4.61	6.12
Washington	4.65	4.38	7.18	8.80	3.82	4.62
West Virginia	7.19	7.24	10.01	*	*	*
Wisconsin	6.02	5.06	13.65	7.78	5.66	5.45
Wyoming	6.49	6.28	*	*	*	*
Puerto Rico	7.84	---	---	---	---	---
Virgin Islands	8.16	*	6.40	*	*	*
Guam	12.47	*	*	*	12.73	*

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

--- Data not available.

1 Includes Aleuts and Eskimos.

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

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of M standards. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispan by race.

I - Table 3. Percentage of live births with selected maternal and infant characteristics by race and Hispanic origin of mother: United States, 2011 linked file

Characteristic	All races and origins ¹	Non-Hispanic				Hispanic				
		White	Black	American Indian ²	Asian or Pacific Islander	Total ¹	Mexican	Puerto Rican	Cuban	Central and South American
Birthweight:										
Less than 1,500 grams	1.46	1.16	3.04	1.30	1.20	1.22	1.10	1.78	1.30	1.25
Less than 2,500 grams	8.1	7.1	13.4	7.6	8.4	7.0	6.6	9.8	7.1	6.7
Preterm births ³	11.7	10.5	16.8	13.5	10.4	11.7	11.3	13.2	12.4	11.8
Births to mothers under 20 years	8.4	6.1	13.7	14.9	2.3	12.1	12.8	14.0	5.6	6.5
Fourth and higher order births	11.7	9.5	15.4	19.5	6.7	15.5	17.4	12.6	5.3	13.0
Births to unmarried mothers	40.7	29.0	72.3	66.2	17.2	53.3	52.0	65.0	48.2	51.2
Mothers born in the 50 States and D.C.	77.1	93.9	86.3	93.5	21.9	46.0	44.1	72.9	48.5	16.0

1 Includes other and unknown Hispanic and origin not stated not shown separately.

2 Includes Aleuts and Eskimos.

3 Born prior to 37 completed weeks of gestation.

NOTES: D.C. is District of Columbia. Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with 1977 Office of Management and Budget standards. Persons of Hispanic origin may be of any race. In this table, Hispanic women are classified only by place of origin; non-Hispanic women are classified by race.

I - Table 4. Live births, infant, neonatal, and postneonatal deaths and mortality rates by race and Hispanic origin of mother and birthweight: United States, 2011 linked file

Race and Birthweight	Number in 2011					Mortality rate per 1,000 live births in 2011		
	Live births	Infant deaths	Neonatal deaths	Postneonatal deaths	Infant	Neonatal	Postneonatal	
All races 1	3,953,590	24,001	16,065	7,936	6.07	4.06	2.01	
Less than 2,500 grams	320,950	16,310	13,319	2,991	50.82	41.50	9.32	
Less than 1,500 grams	57,757	12,753	11,225	1,528	220.80	194.35	26.46	
Less than 500 grams	6,572	5,561	5,417	144	846.17	824.25	21.91	
500-749 grams	10,236	4,209	3,585	624	411.20	350.23	60.96	
750-999 grams	11,338	1,454	1,107	347	128.24	97.64	30.61	
1,000-1,249 grams	13,318	817	609	208	61.35	45.73	15.62	
1,250-1,499 grams	16,293	711	507	205	43.64	31.12	12.58	
1,500-1,999 grams	62,585	1,559	1,029	530	24.91	16.44	8.47	
2,000-2,499 grams	200,608	1,998	1,065	933	9.96	5.31	4.65	
2,500 grams or more	3,630,952	7,548	2,605	4,943	2.08	0.72	1.36	
2,500-2,999 grams	728,579	2,630	1,022	1,608	3.61	1.40	2.21	
3,000-3,499 grams	1,546,032	2,971	933	2,039	1.92	0.60	1.32	
3,500-3,999 grams	1,049,353	1,465	450	1,016	1.40	0.43	0.97	
4,000-4,499 grams	265,164	380	151	229	1.43	0.57	0.86	
4,500-4,999 grams	37,486	81	37	43	2.16	0.99	1.15	
5,000 grams or more	4,338	20	12	8	4.61	*	*	
Not stated	1,688	143	141	2	...	...	...
Non-Hispanic White	2,146,566	10,886	7,103	3,783	5.07	3.31	1.76	
Less than 2,500 grams	152,566	6,834	5,608	1,226	44.79	36.76	8.04	
Less than 1,500 grams	24,847	5,090	4,533	557	204.85	182.44	22.42	
Less than 500 grams	2,430	2,093	2,037	56	861.32	838.27	23.05	
500-749 grams	3,934	1,642	1,449	193	417.39	368.33	49.06	
750-999 grams	4,800	655	519	136	136.46	108.13	28.33	
1,000-1,249 grams	5,978	384	293	91	64.24	49.01	15.22	
1,250-1,499 grams	7,705	317	235	82	41.14	30.50	10.64	
1,500-1,999 grams	30,575	751	521	229	24.56	17.04	7.49	
2,000-2,499 grams	97,144	993	554	439	10.22	5.70	4.52	
2,500 grams or more	1,993,109	4,003	1,446	2,557	2.01	0.73	1.28	
2,500-2,999 grams	344,386	1,297	523	774	3.77	1.52	2.25	
3,000-3,499 grams	817,306	1,583	532	1,051	1.94	0.65	1.29	
3,500-3,999 grams	631,894	842	276	566	1.33	0.44	0.90	
4,000-4,499 grams	172,510	223	88	135	1.29	0.51	0.78	
4,500-4,999 grams	24,460	47	22	25	1.92	0.90	1.02	
5,000 grams or more	2,553	11	5	6	*	*	*	
Not stated	891	48	48	-	...	...	...
Non-Hispanic Black	582,345	6,670	4,437	2,233	11.45	7.62	3.83	
Less than 2,500 grams	77,925	5,000	3,946	1,054	64.16	50.64	13.53	
Less than 1,500 grams	17,708	4,189	3,566	623	236.56	201.38	35.18	
Less than 500 grams	2,455	2,019	1,957	61	822.40	797.15	24.85	
500-749 grams	3,615	1,352	1,075	277	374.00	297.37	76.63	
750-999 grams	3,575	423	283	140	118.32	79.16	39.16	
1,000-1,249 grams	3,876	222	155	67	57.28	39.99	17.29	
1,250-1,499 grams	4,187	173	96	77	41.32	22.93	18.39	
1,500-1,999 grams	14,869	354	201	153	23.81	13.52	10.29	
2,000-2,499 grams	45,348	456	178	278	10.06	3.93	6.13	
2,500 grams or more	504,299	1,621	443	1,178	3.21	0.88	2.34	
2,500-2,999 grams	147,291	649	201	448	4.41	1.36	3.04	
3,000-3,499 grams	225,796	666	157	510	2.95	0.70	2.26	
3,500-3,999 grams	106,710	240	61	179	2.25	0.57	1.68	
4,000-4,499 grams	21,234	56	18	38	2.64	*	1.79	
4,500-4,999 grams	2,885	7	4	3	*	*	*	
5,000 grams or more	383	2	2	-	*	*	*	
Not stated	121	49	48	1	...	...	...

See footnotes at end of table.

I - Table 4. Live births, infant, neonatal, and postneonatal deaths and mortality rates by race and Hispanic origin of mother and birthweight: United States, 2011 linked file

Race and Birthweight	Number in 2011					Mortality rate per 1,000 live births in 2011		
	Live births	Infant deaths	Neonatal deaths	Postneonatal deaths	Infant	Neonatal	Postneonatal	
American Indian or Alaska Native 2	46,419	381	218	163	8.21	4.70	3.51	
Less than 2,500 grams	3,515	198	156	43	56.33	44.38	12.23	
Less than 1,500 grams	621	142	126	15	228.66	202.90	*	
Less than 500 grams	70	62	60	2	885.71	857.14	*	
500-749 grams	103	47	43	4	456.31	417.48	*	
750-999 grams	119	16	12	4	*	*	*	
1,000-1,249 grams	146	9	7	2	*	*	*	
1,250-1,499 grams	183	7	4	3	*	*	*	
1,500-1,999 grams	678	27	15	12	39.82	*	*	
2,000-2,499 grams	2,216	29	14	15	13.09	*	*	
2,500 grams or more	42,884	174	54	120	4.06	1.26	2.80	
2,500-2,999 grams	7,914	41	17	24	5.18	*	3.03	
3,000-3,499 grams	17,454	74	23	51	4.24	1.32	2.92	
3,500-3,999 grams	12,979	42	10	32	3.24	*	2.47	
4,000-4,499 grams	3,776	13	2	11	*	*	*	
4,500-4,999 grams	660	2	-	2	*	*	*	
5,000 grams or more	101	1	1	-	*	*	*	
Not stated	20	9	9	-	...	...	...
Asian or Pacific Islander	253,915	1,108	787	321	4.36	3.10	1.26	
Less than 2,500 grams	21,264	783	651	133	36.82	30.62	6.25	
Less than 1,500 grams	3,054	605	547	58	198.10	179.11	18.99	
Less than 500 grams	299	263	255	8	879.60	852.84	*	
500-749 grams	488	209	185	24	428.28	379.10	49.18	
750-999 grams	584	62	51	11	106.16	87.33	*	
1,000-1,249 grams	684	33	24	8	48.25	35.09	*	
1,250-1,499 grams	999	38	32	6	38.04	32.03	*	
1,500-1,999 grams	3,948	87	56	30	22.04	14.18	7.60	
2,000-2,499 grams	14,262	92	48	44	6.45	3.37	3.09	
2,500 grams or more	232,558	316	127	188	1.36	0.55	0.81	
2,500-2,999 grams	59,241	120	51	70	2.03	0.86	1.18	
3,000-3,499 grams	106,963	124	53	71	1.16	0.50	0.66	
3,500-3,999 grams	54,267	52	20	33	0.96	0.37	0.61	
4,000-4,499 grams	10,587	15	3	12	*	*	*	
4,500-4,999 grams	1,312	3	-	3	*	*	*	
5,000 grams or more	188	1	1	-	*	*	*	
Not stated	93	9	9	-	...	...	...
Hispanic	918,129	4,732	3,332	1,399	5.15	3.63	1.52	
Less than 2,500 grams	64,653	3,315	2,796	519	51.27	43.25	8.03	
Less than 1,500 grams	11,203	2,567	2,304	264	229.14	205.66	23.57	
Less than 500 grams	1,227	1,038	1,022	16	845.97	832.93	*	
500-749 grams	2,044	907	786	120	443.74	384.54	58.71	
750-999 grams	2,203	291	235	56	132.09	106.67	25.42	
1,000-1,249 grams	2,576	160	123	37	62.11	47.75	14.36	
1,250-1,499 grams	3,153	172	138	34	54.55	43.77	10.78	
1,500-1,999 grams	12,290	333	229	104	27.10	18.63	8.46	
2,000-2,499 grams	41,160	415	263	151	10.08	6.39	3.67	
2,500 grams or more	853,288	1,399	519	880	1.64	0.61	1.03	
2,500-2,999 grams	168,723	512	228	284	3.03	1.35	1.68	
3,000-3,499 grams	376,922	506	162	345	1.34	0.43	0.92	
3,500-3,999 grams	241,938	285	81	204	1.18	0.33	0.84	
4,000-4,499 grams	56,524	70	35	35	1.24	0.62	0.62	
4,500-4,999 grams	8,078	20	10	10	2.48	*	*	
5,000 grams or more	1,103	5	3	2	*	*	*	
Not stated	188	17	17	-	...	...	...

See footnotes at end of table.

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

... Category not applicable.

- Quantity zero

1 Includes races other than white or black.

2 Includes Aleuts and Eskimos.

NOTES: Infant deaths are weighted so numbers may not exactly add to totals due to rounding. Neonatal is less than 28 days and postneonatal is 28 days to under 1 year. Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race.

I - Table 5. Infant deaths and mortality rates for the five leading causes of infant death by race and Hispanic origin of mother: United States, 2011 linked file

[Rates per 100,000 live births in specified group]

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All races			Non-Hispanic White			Non-Hispanic Black			American Indian or Alaska native			Asian or Pacific Islander ¹		
	Rank	Number	Rate	Rank	Number	Rate	Rank	Number	Rate	Rank	Number	Rate	Rank	Number	Rate
All causes	...	24,001	607.1	...	10,886	507.1	...	6,670	1,145.2	...	381	820.8	...	1,108	436.4
Congenital malformations, deformations, and chromosomal abnormalities (Q00-Q99)	1	5,016	126.9	1	2,511	117.0	2	927	159.2	1	65	140.0	1	238	93.7
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	2	4,115	104.1	2	1,543	71.9	1	1,499	257.4	2	48	103.4	2	209	82.3
Sudden infant death syndrome (R95)	3	1,905	48.2	3	1,047	48.8	4	496	85.2	3	47	101.3	4	56	22.1
Newborn affected by maternal complications of pregnancy (P01)	4	1,598	40.4	4	614	28.6	3	514	88.3	5	24	51.7	3	87	34.3
Accidents (unintentional injuries) (V01- X59)	5	1,167	29.5	5	610	28.4	5	333	57.2	4	41	88.3	5	37	14.6
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Total Hispanic ²			Mexican ³			Puerto Rican			Central and South American ⁴					
	Rank	Number	Rate	Rank	Number	Rate	Rank	Number	Rate	Rank	Number	Rate			
All causes	...	4,732	515.4	...	2,830	499.4	...	526	784.9	...	593	435.3			
Congenital malformations, deformations, and chromosomal abnormalities (Q00-Q99)	1	1,245	135.6	1	821	144.9	2	84	125.3	1	151	110.8			
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	2	764	83.2	2	446	78.7	1	98	146.2	2	115	84.4			
Sudden infant death syndrome (R95)	4	253	27.6	4	139	24.5	4	39	58.2	5	28	20.6			
Newborn affected by maternal complications of pregnancy (P01)	3	330	35.9	3	179	31.6	3	52	77.6	3	33	24.2			
Accidents (unintentional injuries) (V01- X59)	6	136	14.8	6	71	12.5	5	25	37.3	7	17	*			

... Category not applicable.

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

1 For Asian or Pacific Islanders, Newborn affected by complications of placenta, cord and membranes (P02) was tied as the fifth leading cause of death with 37 deaths and a rate of 14.6.

2 For Hispanics, Newborn affected by complications of placenta, cord and membranes (P02) was the fifth leading cause of death with 197 deaths and a rate of 21.5.

3 For Mexicans, Newborn affected by complications of placenta, cord and membranes (P02) was the fifth leading cause of death with 120 deaths and a rate of 21.2.

4 For Central and South Americans, Newborn affected by complications of placenta, cord and membranes (P02) was the fourth leading cause of death with 32 deaths and a rate of 23.5.

NOTE: Reliable cause-specific infant mortality rates cannot be computed for Cubans because of the small number of infant deaths (74). Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race.