Public Use Data File Documentation

2005 Linked Birth/Infant Death Birth Cohort Data Set

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

2005 Linked Birth/Infant Death Birth Cohort Data Set

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Introduction

This documentation is for the 2005 birth cohort linked birth/infant death data set (linked file). Previous birth cohort linked files were released for data years 1983-91. Beginning with 1995 data, the linked file was released in two different formats - period data and birth cohort data.

Period data - The numerator for the 2005 period linked file consists of all infant deaths occurring in 2005 linked to their corresponding birth certificates, whether the birth occurred in 2004 or 2005. The denominator for this data set is all births occurring in 2005.

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

For most purposes, differences between the birth cohort and period linked files are negligible. However, birth cohort files are preferred for multivariate and some other types of detailed analysis because they follow a given cohort of births for an entire year to ascertain their mortality experience. This is generally considered to be a more robust methodology than the period file, which is essentially cross-sectional in nature.

The 2005 birth cohort linked file includes several separate data files. The first file includes linked birth and death certificate data for all US infants born in 2005 who died before their first birthday - 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 file. The third file is the 2005 NCHS natality file for the US with a few minor modifications - referred to as the denominator-plus file. These same three data files are also available for Puerto Rico, the Virgin Islands, and Guam (there were no 2005 unlinked records for these three reporting areas).

For the denominator-plus file, selected variables from the numerator file have been added to the denominator file to facilitate processing. These variables include age at death (and recodes), underlying cause of death (and the 130-cause recode), manner of death, method of disposition, place of injury, autopsy, and record weight. These variables are the most widely used variables from the numerator file. When the number of variables required from the numerator file is limited, the denominator-plus file may be used by itself for ease of programming. Infant death identification numbers are also included, so that the same infant can be uniquely identified and matched between the numerator and denominator-plus files.

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

This data file includes data based on both the 1989 Revision of the U.S. Standard Certificate of Live Birth (unrevised) and the 2003 revision of the U.S. Standard Certificate of Live Birth (revised). The 2003 revision is described in detail elsewhere. (See the 2003 Revision website at:

http://www.cdc.gov/nchs/vital_certs_rev.htm). Twelve states, Florida, Idaho, Kansas, Kentucky, Nebraska, New Hampshire, New York (but not New York City), Pennsylvania, South Carolina, Tennessee, Texas, and Washington, and Puerto Rico implemented the revised certificate by January 1, 2005 and one during 2005 (Vermont). Where comparable, revised data are combined with data from the remaining states and the District of Columbia. (Revised data are denoted by "R;" unrevised data are denoted by "U" in the "Rev" column of the record layout.) Where data for the 1989 and 2003 certificate revisions are not comparable (e.g., educational attainment of the mother), unrevised and revised data are given in separate fields in the data file.

This file includes data for seventeen states (California, Connecticut, Florida, Idaho, Kansas, Michigan, Montana, Nebraska, New Hampshire, New Jersey, New York, Oklahoma, South Carolina, South Dakota, Utah, Washington, and Wyoming), which implemented the 2003 revision of the U.S. Standard Certificate of Death by January 1, 2005 and for the District of Columbia which revised during 2005. Data from all other areas are based on the 1989 revision. Most of the variables from the death certificate in this file are comparable despite changes to item wording and format in the 2003 revision. The 2003 revision is described in detail elsewhere. (See the 2003 Revision website at: http://www.cdc.gov/nchs/vital_certs_rev.htm).

Incomplete National Reporting - Using Reporting Flags

As a result of the phased transition to the 2003 U.S. Standard Certificate of Live Birth, the 2005 cohort linked file includes data for reporting areas that use the 2003 revision of the U.S. Standard Certificate of Live Birth (revised) and data for reporting areas that use the 1989 Standard Certificate of Live Birth (unrevised). Although many data items are comparable across certificate revisions and are available for the entire United States, many items have more limited reporting areas. 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. Reporting flags are included in the file to assist in accurately excluding records from non-reporting areas when tabulating data by mother's place of residence. Reporting flags are available for most items on the file. 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 not reported), and "1" (item reported). When using these data, select reporting flag=1 to get valid and complete data for an item (see SAS code examples below).

Translating "blanks" - In the 2005 cohort linked file, for data items which are not common or comparable across certificate revisions, events to residents of a revised state occurring in an unrevised state, and events to residents in an unrevised state occurring in a revised state, are represented by "blanks." Blanks should be treated as "unknowns" for tabulations.

The correct use of reporting flags and translation of blanks will result in an accurate tally of births and infant deaths for items with incomplete national reporting. For further information please contact us at births@cdc.gov or (301)458-4111.

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

An example of SAS code that may be used to incorporate the correct use of reporting flags and the translation of blanks is shown below. This example is for the revised prenatal care item. Prenatal care data based on the revised certificate are not considered comparable to data based on the unrevised certificate, and are shown separately. Accordingly, use of the reporting flag for this item will produce 2005 data for the month prenatal care began for the revised states which implemented the revised certificate by January 1st, 2005.

Sample SAS program

```
01
     DATA work;
02
          INFILE 'c:USnum.dat' LRECL=1259;
03
          INPUT
04
               restatus 138
05
               precare 245-246
06
                f mpcb 668;
07
          /*Exclude foreign residents*/
80
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 ('').

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*. For 2005 birth certificates, the following areas reported multiple race data for all or part of the year: California, Florida, Hawaii, Idaho, Kansas, Kentucky, Nebraska, New Hampshire, New York (but not New York City), Michigan (partial), Minnesota, Ohio, Pennsylvania, South Carolina, Tennessee, Texas, Utah, Vermont, and Washington.

For 2005, multiple race data was reported for all or part of the year on the death certificates of California, Connecticut, the District of Columbia (partial), Florida, Hawaii, Idaho, Kansas, Maine, Michigan, Minnesota, Montana, Nebraska, New Hampshire, New Jersey, New York, Oklahoma, South Carolina, South Dakota, Utah, Washington, Wisconsin and Wyoming. In order to provide uniformity and comparability of the data before all or most of the data are available in the new multiple-race format, it was necessary to "bridge" the responses of those for whom more than one

race was reported (multiple race) to one, single race. See the "Technical Notes" of "Births: Final Data for 2005" and "Deaths: Final Data for 2005" which are included in this User's Guide for more information.

Weighting

Beginning with the 1995 linked file, a weight was added to the linked numerator file to correct in part for biases in percent of records linked by major characteristics (see section below on Percent of records linked). The number of infant deaths in the linked file are weighted to equal the sum of the linked plus unlinked infant deaths by age at death and state. The formula for computing the weights is as follows:

<u>number of linked infant deaths + number of unlinked infant deaths</u> number of linked infant deaths

A separate weight is computed for each state of residence of birth and each age at death category (<7 days, 7-27 days, 28 days-1 year). Thus, weights are 1.0 for states which link all of their infant deaths. The denominator file is not weighted. Weights are not computed for the Puerto Rico, Virgin Islands, and Guam file.

Birthweight

Beginning with the 1995 linked file, an imputation for not-stated birthweight was added to the data set, to reduce potential bias in the computation of birthweight-specific infant mortality rates. Basically, if birthweight is not stated and the period of gestation is known, birthweight is assigned the value from the previous record with the same period of gestation, race, sex, and plurality. Imputed values are flagged. The addition of this imputation reduces the percent of not-stated responses for birthweight, thus greatly reducing (but not eliminating) the potential for underestimation when computing birthweight-specific infant mortality rates.

Methodology

The methodology used to create the national file of linked birth and infant death records takes advantage of two existing data sources:

- 1. State linked files for the identification of linked birth and infant death certificates; and
- 2. NCHS natality and mortality computerized statistical files, the source of computer records for the two linked certificates.

Virtually all states routinely link infant death certificates to their corresponding birth certificates for legal and statistical purposes. When the birth and death of an infant occur in different states, copies of the records are exchanged by the state of death and state of birth in order to effect a link. In addition, if a third state is identified as the state of residence at the time of birth or death, that state is also sent a copy of the appropriate certificate by the state where the birth or death occurred.

The NCHS natality and mortality files, produced annually, include statistical data from birth and death certificates that are provided to NCHS by states under the Vital Statistics Cooperative Program (VSCP). The data have been coded according to uniform coding specifications, have passed rigid quality control standards, have been edited and reviewed, and are the basis for official U.S. birth and death statistics.

To initiate processing, NCHS obtained matching birth certificate numbers from states for all infant deaths that occurred in their jurisdiction. We 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.

After the initial linkage, NCHS returned to the states where the death occurred, computer lists of unlinked infant death certificates for follow up linking. If the birth occurred in a state different from the state of death, the state of birth identified on the death certificate was contacted to obtain the linking birth certificate. State additions and corrections are incorporated, and a final, national linked file is produced. Characteristics of the natality and mortality data from which the linked file is constructed are described in detail in the Technical Appendix and Final Reports included in this document.

Characteristics of Unlinked File

For the 2005 cohort linked file 1.3% of all infant death records could not be linked to their corresponding birth certificates. Unlinked records are included in a separate data file in this data set. The unlinked record file uses the same record layout as the numerator file of linked birth and infant death records. However, except as noted below, locations reserved for information from the matching birth certificate are blank since no matching birth certificate could be found for these records. The sex field contains the sex of infant as reported on the death certificate, rather than the sex of infant from the birth certificate, which is not available. The race field contains the race of the decedent as reported on the death certificate rather than the race of mother as reported on the birth certificate as is the case with the linked record file. The race of mother on the birth certificate is generally considered to be more accurate than the race information from the death certificate (see section on Race and Hispanic origin in "Deaths: Final Data for 2005" included in this User's Guide). Also, date of birth as reported on the death certificate is used to generate age at death. This information is used in place of date of birth from the birth certificate, which is not available. Documentation table 6 shows counts of unlinked records by race and age at death for each state of residence. The user is cautioned in using table 6 that the race and residence items are based on information reported on the death certificate, whereas tables 1-5 present data from the linked file in which the race and residence items are based on information reported on the birth certificate.

Percent of Records Linked

While the overall percent linked for infant deaths in the 2005 cohort file is 98.7%, there are differences in percent linked by certain variables. These differences have important implications for how the data is analyzed.

Table 1 below shows the percent of infant deaths linked by state of occurrence of death. While many states link all of their infant deaths, linkage rates for some states are below the national average. Note in particular the percent linked for California (96.5), Louisiana (92.5), Nevada (97.7), Ohio (97.2), and Texas (95.9). When a high percentage of deaths remain unlinked, unweighted infant mortality rates computed for these states are underestimated. It is for this reason that weights were added to the file to correct for biases in the data due to poor data linkage for particular states.

In general, a slightly higher percentage of postneonatal (28 days to under 1 year) than neonatal (less than 28 days) deaths were linked (99.0 and 98.5, respectively.) While the weighting protocol has been designed to correct for possible bias due to variations in match rates by characteristics, no statistical method can correct perfectly for data limitations. Therefore, variations in the percent of records linked should be taken into consideration when comparing infant mortality rates by detailed characteristics.

Table 1. Percent of in	fant deaths linked	d by state of occurre	nce of death: United States, 2005
cohort linked file		•	
United States	98.7	Nebraska	100.0
Alabama	100.0	Nevada	97.7
Alaska	98.3	New Hampshire	100.0
Arizona	98.3	New Jersey	99.2
Arkansas	100.0	New Mexico	99.4
California	96.5	New York State	99.0
Colorado	99.6	New York City	99.6
Connecticut	100.0	North Carolina	99.8
Delaware	100.0	North Dakota	100.0
District of Columbia	100.0	Ohio	97.2
Florida	99.6	Oklahoma	99.5
Georgia	99.9	Oregon	98.2
Hawaii	100.0	Pennsylvania	99.6
Idaho	100.0	Rhode Island	100.0
Illinois	98.2	South Carolina	99.4
Indiana	99.4	South Dakota	100.0
Iowa	100.0	Tennessee	100.0
Kansas	100.0	Texas	95.9
Kentucky	99.4	Utah	99.6
Louisiana	92.5	Vermont	100.0
Maine	100.0	Virginia	100.0
Maryland	100.0	Washington	99.8
Massachusetts	100.0	West Virginia	100.0
Michigan	100.0	Wisconsin	100.0
Minnesota	99.7	Wyoming	100.0
Mississippi	99.8	Puerto Rico	100.0
Missouri	99.9	Virgin Islands	100.0
Montana	100.0	Guam	100.0

Demographic and Medical Classification

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

http://www.cdc.gov/nchs/about/major/dvs/im.htm. In addition, users who do not already have access to these documents may request them from the Chief, Mortality Medical Classification Branch, Division of Vital Statistics, National Center for Health Statistics, P.O. Box 12214, Research Triangle Park, North Carolina 27709. The technical appendix for natality and the mortality final report for 2004 included in this User's Guide 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, 2007. 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, 2007. 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, 2007. 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. (replaces NCHS Instruction Manual, Part 3a). Available at: http://www.cdc.gov/nchs/about/major/dvs/im.htm.
- E. National Center for Health Statistics. Specifications for U.S. Standard Certificate of Death 2003 Revision. (replaces NCHS Instruction Manual, Part 4). Available at: http://www.cdc.gov/nchs/about/major/dvs/im.htm.
- F. National Center for Health Statistics. Vital statistics, Computer Edits for Natality Data, Effective 1993. NCHS Instruction Manual Part 12. Hyattsville, Maryland: Public Health Service.
- G. National Center for Health Statistics. Vital statistics, Computer Edits for Mortality Data, Effective 2007. NCHS Instruction Manual Part 11. Hyattsville, Maryland: Public Health Service.

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

Underlying Cause of Death Data

Mortality statistics by cause of death are compiled from entries on the medical certification portion of the death certificate. The U.S. Standard Certificate of Death is shown in the Mortality Technical Appendix which is included in this documentation. Causes of death include "all those diseases, morbid conditions or injuries which either resulted in or contributed to death and the circumstances of the accident or violence which produced these injuries". The medical certification of death is divided into two sections. In Part I, the physician is asked to provide the causal chain of morbid conditions that led to death, beginning with the condition most proximate to death on line (a) and working backwards to the initiating condition. The lines (a) through (d) in Part I are connected by the phrase "due to, or as a consequence of." They were designed to encourage the physician to provide the causally related sequence of medical conditions that resulted in death. Thus, the condition on line (a) should be due to the condition on line (b), and the condition on line (b) should be a consequence of the condition on line (c), etc., until the full sequence is described back to the originating or initiating condition. If only one step in the chain of morbid events is recorded, a single entry on line (a) is adequate. Part I of the medical certification is designed to facilitate the selection of the underlying cause of death when two or more causes are recorded on the certificate. The underlying cause of death is defined by the WHO in the ICD-10 as "(a) the disease or injury which initiated the chain of morbid events leading directly to death, or (b) the circumstances of the accident or violence that produced the fatal injury" and is generally considered the most useful cause from a public health standpoint. Part II of the cause-of-death section of the death certificate solicits other conditions that the certifier believed contributed to death, but were not in the causal chain. While some details of the death certificate vary by state, all states use the same general format for medical certification outlined in the U.S. Standard Certificate. The U.S. Standard Certificate, in turn, closely follows the format recommended by the WHO.

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

To resolve the problems of incorrect or implausible cause-of-death statements, the WHO designed standardized rules to select an underlying cause of death from the information available on the death certificate that is most informative from a public health perspective. The rules for the Tenth Revision as updated by WHO since the publication of ICD-10 are described in NCHS instruction

manual Part 2A. Coding rules beyond the General Principle are invoked if the cause-of-death section is completed incorrectly or if their application can improve the specificity and characterization of the cause of death in a manner consistent with the ICD. The rules are applied in two steps: selection of a tentative underlying cause of death, and modification of the tentative underlying cause in view of the other conditions reported on the certificate in either Part I or Part II. Modification involves several considerations by the medical coder: determining whether conditions in Part II could have given rise to the underlying cause, giving preference to specific terms over generalized terms, and creating linkages of conditions that are consistent with the terminology of the ICD.

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

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

In addition to changes due to the implementation of a new ICD revision, rules for coding a cause of death may occasionally require modification at other times, when evidence suggests that such modifications will improve the quality of cause-of-death data. These changes may affect comparability of data between years for select causes of death. For example, the increase in Necrotizing enterocolitis of newborn (ICD-10 code P77) among infants for 2005 is largely due to a coding rule change (specifically, ICD-10 code P60 can be due to ICD-10 codes P77-P78). The result of the rule change is that Necrotizing enterocolitis of newborn is selected as the underlying cause more often than was previously the case.

Multiple Cause of Death Data

The limitations of the underlying cause concept and the need for more comprehensive data suggested the need for coding and tabulating all conditions listed on the death certificate. Coding all listed conditions on the death certificate was designed with two objectives in mind. First, to facilitate studies of the relationships among conditions reported on the death certificate, which require presenting each condition and its location on the death certificate in the exact manner given by the certifier. Secondly, the coding needed to be carried out in a manner by which the underlying cause-of-death could be assigned using the WHO coding rules. Thus, the approach in developing multiple cause data was to provide two fields: 1) entity axis and 2) record axis. For entity axis, NCHS suspends the provisions of the ICD that create linkages between conditions for the purpose of coding each individual condition, or entity, with minimum regard to other conditions present on the death certificate.

Record axis is designed for the generation of person-based multiple cause statistics. Person-based analysis requires that each condition be coded within the context of every other condition on the same death certificate and modified or linked to such conditions as provided by ICD-10. By definition, the entity data cannot meet this requirement since the linkage provisions modify the character and placement of the information originally recorded by the certifier. Essentially, the axis of the classification has been converted from an entity basis to a record (or person) basis. The record axis codes are assigned in terms of the set of codes that best describe the overall medical certification portion of the death certificate.

This translation is accomplished by a computer system called TRANSAX (Translation of Axis). TRANSAX selectively uses the traditional linkage and modification rules for mortality coding. Underlying cause linkages which simply prefer one code over another for purposes of underlying cause selection are not included. Each entity code on the record is examined and modified or deleted as necessary to create a set of codes that are free of contradictions and are the most precise within the constraints of ICD-10 and medical information on the record. Repetitive codes are deleted. The process may 1) combine two entity axis categories together to a new category thereby eliminating a contradiction or standardizing the data; or 2) eliminate one category in favor of another to promote specificity of the data or resolve contradictions. The following examples from ICD-10 illustrate the effect of this translation:

- Case 1: When reported on the same record as separate entities, cirrhosis of liver and alcoholism are coded to K74.6 (Other and unspecified cirrhosis of liver) and F10.2 (Mental and behavioral disorders due to use of alcohol; dependence syndrome), respectively. Tabulation of records with K74.6 would imply that such records had no mention of alcohol. A preferable code would be K70.3 (Alcoholic cirrhosis of liver) in lieu of both K74.6 and F10.2.
- Case 2: If "gastric ulcer" and "bleeding gastric ulcer" are reported on a record they are coded to K25.9 (Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation) and K25.4 (Gastric ulcer, chronic or unspecified with hemorrhage), respectively. A more concise code is K25.4 which shows both the gastric ulcer and the bleeding.

Entity Axis Codes

The original conditions coded for selection of the underlying cause-of-death are reformatted and edited prior to creating the public-use data file. The following paragraphs describe the format and application of entity axis data.

- 1. Format. Each entity-axis code is displayed as an overall seven byte code with subcomponents as follows:
- 1. Line indicator: The first byte represents the line of the death certificate on which the code appears. Six lines (1-6) are allowable with the fourth and fifth denoting one or two written in "due to"s beyond the three lines

provided in Part I of the U.S. standard death certificate. Line "6" represents Part II of the death certificate.

- 2. Position indicator: The next byte indicates the position of the code on the line, i.e., it is the first (1), second (2), third (3) eighth (8) code on the line.
- 3. Cause category: The next four bytes represent the ICD-10 cause code.
- 4. The last byte is blank.

A maximum of 20 of these seven byte codes are captured on a record for multiple cause purposes. This may consist of a maximum of 8 codes on any given line with up to 20 codes distributed across three or more lines depending on where the subject conditions are located on the certificate. Codes may be omitted from one or more lines, e.g., line 1 with one or more codes, line 2 with no codes, line 3 with one or more codes.

In writing out these codes, they are ordered as follows: line 1 first code, line 1 second code, etc. ----- line 2 first code, line 2 second code, etc. ----- line 3 ----- line 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.

- <u>2. Edit.</u> The original conditions are edited to remove invalid codes, reverify the coding of certain rare causes of death, and assure age/cause and sex/cause compatibility. Detailed information relating to the edit criteria and the sets of cause codes which are valid to underlying cause coding and multiple cause coding are provided in NCHS Instruction Manual Part 11.
- 3. Entity Axis Applications. The entity axis multiple cause data file is appropriate for analyses that require that each condition be coded as a stand alone entity without linkage to other conditions and/or require information on the placement of such conditions in the death certificate. Within this framework, the entity data are appropriate to examine relationships among conditions and the validity of traditional assumptions in underlying cause selection. Additionally, the entity data provide in certain categories a more detailed code assignment that could be excluded in creating record axis data. Where such detail is needed for a study, the user should use entity data. Finally, the researcher may not wish to be bound by the assumptions used in the axis translation process.

The main limitation of entity axis data is that it does not necessarily reflect the best code for a condition when considered within the context of the medical certification as a whole. As a result, certain entity codes can be misleading or even contradict other codes in the record. For example, category K80.2 is titled "Calculus of gallbladder without cholecystitis." Within the framework of entity codes this is interpreted to mean that the codable entity itself contained no mention of cholecystitis rather than that cholecystitis was not mentioned anywhere on the record. Tabulation of records with a "K80.2" as a count of persons having Calculus of gallbladder without cholecystitis would therefore be erroneous. This illustrates the fact that under entity coding the ICD-10 titles cannot be taken literally. The user should study the rules for entity coding as they relate to his/her research prior to use of entity data. The user is further cautioned that the inclusion notes in ICD-10

that relate to modifying and combining categories are seldom applicable to entity coding (except where provided NCHS Instruction Manual Part 2b).

In tabulating the entity axis data, one may count codes with an individual code representing the number of times the condition(s) appears in the file. In this kind of tabulation of morbid conditions, the counts among categories may be added together to produce counts for groups of codes. Alternatively, subject to the limitations given above, one may count persons having mention of the disease represented by a code or codes. In this instance it is not correct to add counts for individual codes to create person counts for groups of codes. Since more than one code in the researcher's interest may appear together on the certificate, totaling must account for higher order interactions among codes. Up to 20 codes may be assigned on a record; therefore, a 20-way interaction is theoretically possible. All totaling must be based on mention of one or more of the categories under investigation.

Record Axis Codes

The following paragraphs describe the format and application of record-axis data. Part 2f of the Instruction Manual Series (ICD-10 TRANSAX Disease Reference Tables for classifying Multiple Causes-of-Death) describes the TRANSAX process for creating record axis data from entity axis data.

- <u>1. Format</u>. 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.

- <u>2. Edit</u>. 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.

Linked Birth/Infant Death Data Set: 2005 Birth Cohort Data

I. Numerator File:

United States

A. Record count: 27,968
B. Record length: 1259

C. Data counts: a. By occurrence: 27,968

b. By residence: 27,893

c. To foreign residents: 75

Territories

A. Record count: 510
B. Record length: 1259

II. Denominator File:

United States

A. Record count: 4,145,887
B. Record length: 900

C. Data counts: a. By occurrence: 4,145,887

b. By residence: 4,138,577c. To foreign residents: 7,310

Territories

A. Record count: 55,359
B. Record length: 900

III. Unlinked File:

United States

A. Record count: 364
B. Record length: 1259

C. Data counts: a. By occurrence: 364

b. By residence: 360c. To foreign residents: 4

Territories

A. Record count: No unlinked records

B. Record length: NA

Linked 2005 Cohort Selected Data Elements and Locations

Data Items	Denominator Plus File	Numerator F Birth	File Death	Unlinked File	
General Infant death number Year of birth Year of death Resident status Record weight Match status	10-14 15-18 138 893-900 868	10-14 15-18 138 893-900 868	 1188-91 1151 	 15-18* 1188-91 1151 	
Infant Age at death Race Sex Gestation Birthweight Plurality Apgar score Birth place Day of week, birth/death Month, birth/death	 436 451-57 467-73 423 415-17 42, 59 29 19-20	 436 451-57 467-73 423 415-17 42,59 29 19-20	872-77 1187 1258-59	872-77 [†] 139-44 [*] 436 [*] 1187 1258-59	
Mother Age Race Education Marital status Hispanic origin	89-93 139-44 155-58 153 148-49	89-93 139-44 155-58 153 148-49	 	 	
Age Race Hispanic origin	182-87 188-91, 199-200 195-96	182-87 188-91, 199-200 195-96	 	 	
Pregnancy items Total birth order Live birth order Month prenatal care	215-17 210-12	215-17 210-12	 	 	

began Number of prenatal	245-7, 256-9	245-7, 256-9		
visits	270-3	270-3		
Medical and health data				
Method of delivery	395-401	395-401		
Medical risk factors	313-19	313-19		
Wedical Hak factors	328-44	328-44		
Tobacco	284-94	284-94		
Alcohol	295-98	295-98		
Weight gain during preg	276-78	276-78		
Obstetric procedures	351-61	351-61	 	
Complications and	331-01	331-01		
Characteristics of L/D	365-89	365-89		
Abnormal conditions	476-91	476-91		
Congenital anomalies	492-525	492-525		
Underlying cause of			004.07	004.07
death			884-87	884-87
130 infant cause recode			889-91	889-91
Multiple conditions			903-1148	903-1148
Other items				
Residence reporting				
Flags	569-773	569-773		
Late record flag	9	9		
Attendant at birth	410	410		
Place of death and				
decedent's status			1186	1186
Place of injury			882	882
Manner of death			878	878
Method of disposition			879	879
Autopsy			880	880

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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
1-6	6	FILLER	Filler				
7	1	REVISION	Revision		U,R	R 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 2	Not late record Late record Late Vermont record
10-14	5	SEQNUM	Infant Death Number This number uniquely identifiant in the numerator and		les.	00001- nnnnn	
15-18	4	DOB_YY	Birth Year		U,R	2005	2005
19-20	2	DOB_MM	Birth Month		U,R	01 02 03 04 05 06 07 08 09 10 11	January February March April May June July August September October November December
21-28	8	FILLER	Filler				
29	1	DOB_WK	Weekday		U,R	1 2 3 4 5 6 7	Sunday Monday Tuesday Wednesday Thursday Friday Saturday

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

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

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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						5 9	Other Unknown
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 F	lag	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	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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						36	36 years
						37	37 years
						38	38 years
						39	39 years
						40	40 years
						41 42	41 years
						42	42 years
						43 44	43 years
						44	44 years 45 years
						45 46	46 years
						47	47 years
						48	48 years
						49	49 years
						50	50 -54 years
91-92	2	MAGER14	Mother's Age Recode 14		U,R	01	Under 15 Years
					- ,	03	15 years
						04	16 years
						05	17 years
						06	18 years
						07	19 years
						08	20-24 years
						09	25-29 years
						10	30-34 years
						11	35-39 years
						12	40-44 years
						13	45-49 years
						14	50-54 years
93	1	MAGER9	Mother's Age Recode 9		U,R	1	Under 15 years
						2	15-19 years
						3	20-24 years
						4	25-29 years
						5	30-34 years
						6	35-39 years
						7	40-44 years
						8	45-49 years
						9	50-54 years

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Position	n	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition		
94-95		2	MBCNTRY	Mother's Birth Country (This item is available in th only, geographic codes are available in the U.S.file)		R**	AA-ZZ	A complete list is shown in the Geographic Code Outline.		
** Also includes unrevised territories/possessions that use new geographic coding.										
96-108		13	FILLER	Filler						
109-110		2	MRTERR	Mother's Residence (This item is available in th only, geographic codes are 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 reside (This item is available in th only, geographic codes are available in the U.S.file) <u>Puerto Rico</u> Other Outlying A	e territory file not		127 999 000 999	San Juan County of less than 250,000 or foreign resident No county level geography County of less than 250,000		
								or foreign resident		
117-131		15	FILLER	Filler						
132		1	RCNTY_POP	Population of Residence C (This item is available in th		U,R				
 * U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised). U Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision. R Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision. 5 										

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			only, geographic codes a available in the U.S.file)	ire not		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 only, geographic codes a available in the U.S.file)		U,R	1 2	RESIDENT: State and county of occurrence and residence are the same. NONRESIDENT: State and county of occurrence and residence are different.
138	1	RESTATUS	Residence Status <u>United States</u>		U,R	1 2 3	RESIDENT: State and county of occurrence and residence are the same. INTRASTATE NONRESIDENT: State of occurrence and residence are the same but county is different. INTERSTATE NONRESIDENT: State of occurrence and residence are different but both are one of the 50 US states or District of Columbia. FOREIGN RESIDENT: The state of residence is not one of the 50 US states or District of Columbia.
			Outlying areas	of the US		1 2 2 3	RESIDENT: State and county of occurrence and residence are the same. (Unique to Guam, all US residents are considered residents of Guam and thus are assigned 1.) INTRATERRITORY NONRESIDENT: Territory of occurrence and residence are the same but county is different. INTERTERRITORY RESIDENT: Territory of occurrence and residence are different but both are US Territories. FOREIGN RESIDENT: The residence is not a US Territory.
139-140 * II R	2	MBRACE	Mother's Bridged Race Includes only states repor 01-14 used for individual Codes 21-24 used for ind one race that have been b	ting multiple race. Co s reporting only one ra ividuals reporting mon ridged to a single race	ace. re than	01 02 03 04 05	White – single race Black – single race American Indian/Alaska Native – single race Asian Indian – single race Chinese – single race de the 2003 Revision of the U.S. Certificate of Live Birth

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			Code 24 also used for indimore than one Asian/Pacif see "Technical Appendix."	ic Islander group;		06 07 08 09 10 11 12 13 14 21 22 23	Filipino – single race Japanese – single race Korean – single race Vietnamese – single race Other Asian – single race Hawaiian – single race Guamanian – single race Samoan – single race Other Pacific Islander – single race White – bridged multiple race Black – bridged multiple race American Indian / Alaska Native – bridged multiple race
			** Also includes unrevised multiple race.	l states that report		24 Blank	Asian / Pacific Islander – bridged multiple race Not on certificate
141-142	2	MRACE	Mother's Race Includes only states exclus race. Some areas report ad Pacific Islander (API) code 18-68 replace former code Code 78 replaces former coareas.	ditional Asian or es for race. Codes 08 for these areas.	U		
			United States			01	White
						02	Black
						03	American Indian / Alaskan Native
						04	Chinese
						05	Japanese
						06 07	Hawaiian (includes part Hawaiian) Filipino
						18	Asian Indian
						28	Korean
						38	Samoan
						48	Vietnamese
						58	Guamanian
						68	Other Asian or Pacific Islander in areas reporting codes 18-58.
						78	Combined other Asian or Pacific Islander, includes 18-68 for areas that do not report them separately.
						Blank	Not on certificate

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			<u>Puerto Rico</u>			01 02 00 Blank	White Black Other races Not on certificate
			<u>Guam</u>			01 02 03 04 05 06 07 08 58 Blank	White Black American Indian / Alaska Native Chinese Japanese Hawaiian (includes part Hawaiian) Filipino Other Asian or Pacific Islander Guamanian Not on certificate
			All other Outlyin	g Areas of the US		01 02 03 04 05 06 07 08 Blank	White Black American Indian / Alaska Native Chinese Japanese Hawaiian (includes part Hawaiian) Filipino Other Asian or Pacific Islander Not on certificate
143	1	MRACEREC	Mother's Race Recode Includes individuals reporti individuals reporting more to a single race.				
				l all Outlying Areas except Puerto Rico	<u>of</u>	1 2 3 4	White Black American Indian / Alaskan Native Asian / Pacific Islander
			Puerto Rico			1 2 0	White Black Other (not classified as White or Black)

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

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
144	1	MRACEIMP	Mother's Race Imputed F	lag	U,R	Blank 1 2	Mother's race not imputed Unknown race imputed All other races, formerly coded 09, imputed.
145-147	3	FILLER	Filler				
148	1	UMHISP	Mother's Hispanic Origin				
				569	U,R	0 1 2 3 4 5	Non-Hispanic Mexican Puerto Rican Cuban Central American Other and Unknown Hispanic Origin unknown or not stated
149	1	MRACEHISP	Mother's Race/Hispanic C	Origin 569	U,R	1 2 3 4 5 6 7 8 9	Mexican Puerto Rican Cuban Central or South American Other and Unknown Hispanic Non-Hispanic White Non-Hispanic Black Non-Hispanic Other Races Origin unknown or not stated
150-152	3	FILLER	Filler				
153	1	MAR	Mother's Marital Status United States and the US except Pue	all Outlying Areas overto Rico	U,R <u>of</u>	1 2 9 1 2 3 9	Yes No Unknown or not Stated Yes Unmarried parents living together Unmarried parents not living together Unknown or not stated
154	1	MAR_IMP	Mother's Marital Status I	mputed Flag	U,R	Blank 1	Marital Status not imputed Marital Status imputed

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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
155	1	MEDUC	Mother's Educ –Revised	571	R	1 2 3 4 5 6 7 8 9 Blank	8 th grade or less 9 th through 12 th grade with no diploma High school graduate or GED completed Some college credit, but not a degree. Associate degree (AA,AS) Bachelor's degree (BA, AB, BS) Master's degree (MA, MS, MEng, MEd, MSW, MBA) Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD) Unknown Not on certificate
156-157	2	UMEDUC	Mother's Educ –Unrevised	d 647	U	00 01-08 09 10 11 12 13 14 15 16 17 99 Blank	No formal education Years of elementary school 1 year of high school 2 years of high school 3 years of high school 4 years of high school 1 year of college 2 years of college 3 years of college 4 years of college 5 or more years of college Not stated Not on certificate
158	1	MEDUC_REC	Mother's Education Reco	de 647	U	1 2 3 4 5 6 Blank	0 – 8 years 9 – 11 years 12 years 13 – 15 years 16 years and over Not stated Not on certificate
159-174	16	FILLER	Filler				
175	1	FAGERPT_FLG	Father's Reported Age Us	ed	U,R	Blank 1	Father's reported age not used Father's reported age used
176-181	6	FILLER	Filler				

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
182-183	2	FAGECOMB	Father's Combined Age (Revised)	R	09-98 99 Blank	Father's combined age in years Unknown or not stated Not on certificate
184-185	2	UFAGECOMB	Father's Combined Age (Unrevised)	U	10-98 99	Father's combined age in years Unknown or not stated
186-187	2	FAGEREC11	Father's Age Recode 11		U,R	01 02 03 04 05 06 07 08 09 10	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 50-59 years Not stated
188-189	2	FBRACE	Father's Bridged Race Includes only states reporting 01-14 used for individuals and Codes 21-24 used for individuals and Codes 24 also used for individuals and Code 24 also used for individuals and Code 24 also used for individuals and Code 24 also used for individual a	reporting only one ra- iduals reporting more dged to a single race. viduals reporting c Islander group;	ce. e than	01 02 03 04 05 06 07 08 09 10 11 12 13 14 21 22 23 24	White – single race Black – single race American Indian/Alaska Native – single race Asian Indian – single race Chinese – 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 Samoan – single race Other Pacific Islander – single race White – bridged multiple race Black – bridged multiple race American Indian / Alaska Native – bridged multiple race Asian / Pacific Islander – bridged multiple race Unknown or not stated, also includes states not reporting multiple race.
			multiple race.			Blank	Not on certificate

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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
190	1	FILLER	Filler				
191	1	FRACEREC	Father's Race Recode Includes individuals reporting individuals reporting more to a single race.				
			United States and the US except Puo	all Outlying Areas o erto Rico	<u>f</u>	1 2 3 4 9	White Black American Indian / Alaskan Native Asian / Pacific Islander Unknown or not stated
			Puerto Rico			1 2 9 0	White Black Unknown or not stated Other (not classified as White or Black)
192-194	3	FILLER	Filler				
195 196	1	UFHISP	Father's Hispanic Origin-	570	U,R U,R	0 1 2 3 4 5 9 1 2 3 4 5 9	Non-Hispanic Mexican Puerto Rican Cuban Central American Other and Unknown Hispanic Origin unknown or not stated Mexican Puerto Rican Cuban Central or South American Other and Unknown Hispanic Non-Hispanic White Non-Hispanic Black
197-198	2	FILLER	Filler			8 9	Non-Hispanic Other Races Origin unknown or not stated

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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
199-200	2	UFRACE	Father's Race (Unrevised) <u>United States</u>		U	01 02 03 04 05 06 07 18 28 38 48 58 68 78	White Black American Indian / Alaska Native Chinese Japanese Hawaiian (includes part Hawaiian) Filipino Asian Indian Korean Samoan Vietnamese Guamanian Other Asian or Pacific Islander in areas reporting codes 18-58. Combined other Asian or Pacific Islander, includes 18-68 for areas that do not report them separately. Unknown or not stated Not on certificate
			<u>Puerto Rico</u>			01 03 00 99 Blank	White Black Other races not classified white or black Unknown or not stated Not on certificate
			<u>Guam</u>			01 02 03 04 05 06 07 08 58 99 Blank	White Black American Indian / Alaska Native Chinese Japanese Hawaiian (includes part Hawaiian) Filipino Other Asian or Pacific Islander Guamanian Unknown or not stated Not on certificate
			All other Outlying	Areas of the US		01 02 03	White Black American Indian / Alaska Native

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

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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						04 05 06 07 08 99 Blank	Chinese Japanese Hawaiian (includes part Hawaiian) Filipino Other Asian or Pacific Islander Unknown or not stated Not on certificate
201-203	3	FILLER	Filler				
204-205	2	PRIORLIVE	Prior Births Now Living		U,R	00-30 99	Number of children still living Unknown or not stated
206-207	2	PRIORDEAD	Prior Births Now Dead		U,R	00-30 99	Number of children dead Unknown or not stated
208-209	2	PRIORTERM	Prior Other Terminations		U,R	00-30 99	Number other terminations Unknown or not stated
210-211	2	LBO	Live Birth Order		U,R	01-31 99	Sum of all previous live births (now living and now dead) plus current birth Unknown or not stated
212	1	LBO_REC	Live Birth Order Recode		U,R	1-7 8 9	Number of live birth order. 8 or more live births Unknown or not stated
213-214	2	FILLER	Filler				
215-216	2	ТВО	Total Birth Order		U,R	01-40	Sum of all previous pregnancies plus current birth
217	1	TBO_REC	Total Birth Order Recode		U,R	99 1-7 8 9	Unknown or not stated Number of total birth order. Total birth order of 8 or more Unknown or not stated
218-219	2	FILLER	Filler				
220-221	2	DLLB_MM	Date of Last Live Birth Mo	onth	R	01	January
* II D	Include	data basad on bath	41- 1000 D	C+:6:+6 T :	Dieth (von	arriand) am	d the 2002 Davision of the U.S. Contif

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						02 03 04 05 06 07 08 09 10 11 12 88 99	February March April May June July August September October November December Not applicable Unknown or not stated
222-225	4	DLLB_YY	Date of Last Live Birth Ye	ar	R	nnnn 8888 9999	Year of last live birth Not applicable Unknown or not stated
226-244	19	FILLER	Filler				
245-246	2	PRECARE	Month Prenatal Care Bega	nn (Revised) 668	R	00 01-10 99 Blank	No prenatal care Month prenatal care began Unknown or not stated Not on certificate
247	1	PRECARE_REC	Month Prenatal Care Bega	nn Recode (Revised 668) R	1 2 3 4 5 Blank	1 st to 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated Not on certificate
248-255	8	FILLER	Filler				
256-257	2	MPCB	Month Prenatal Care Bega	nn (Unrevised) 669	U	00 01-10 99 Blank	No prenatal care Month prenatal care began Unknown or not stated Not on ceritificate

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
258	1	MPCB_REC6	Month Prenatal Care Beg	an Recode 6 (Unrev 669	vised) U	1 2 3 4 5 6 Blank	1 st to 2 nd month 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated Not on certificate
259	1	MPCB_REC5	Month Prenatal Care Beg	an Recode 5 (Unrev 669	vised) U	1 2 3 4 5 Blank	1 st trimester (1 st to 3 rd month) 2 nd trimester (4 th to 6 th month) 3 rd trimester (7 th to final month) No prenatal care Unknown or not stated Not on certificate
260-269	10	FILLER	Filler				
270-271	2	UPREVIS	Number of Prenatal Visits	3	U,R	00-49 99	Number of prenatal visits Unknown or not stated
272-273	2	PREVIS_REC	Number of Prenatal Visits	s Recode	U,R	01 02 03 04 05 06 07 08 09 10 11	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	1	FILLER	Filler				
275	1	APNCU	Adequacy of Prenatal Car	e Utilization Index 668	(Revised) R	1 2 3	Inadequate Intermediate Adequate

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						4 9 Blank	Adequate + Unknown Not on certificate
276-277	2	WTGAIN	Weight Gain	648	U,R	00-97 98 99	Weight gain in pounds 98 pounds and over Unknown or not stated
278	1	WTGAIN_REC	Weight Gain Recode	648	U,R	1 2 3 4 5 6 7 8	Less than 16 pounds 16 to 20 pounds 21 to 25 pounds 26 to 30 pounds 31 to 35 pounds 36 to 40 pounds 41 to 45 pounds 46 or more pounds Unknown or not stated
279	1	U_APNCU	Adequacy of Prenatal Car	e Utilization Index 669	(Unrevise U	ed) 1 2 3 4 9 Blank	Inadequate Intermediate Adequate Adequate + Unknown Not on certificate
280	1	DFPC_IMP	Day of Date First Prenatal	Care Imputed	R	Blank 1	Day of date first prenatal care not imputed Day of date first prenatal care imputed
281-283	3	FILLER	Filler				
284-285	2	CIG_1	Cigarettes 1 st Trimester	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
286-287	2	CIG_2	Cigarettes 2 nd Trimester	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
288-289	2	CIG_3	Cigarettes 3 rd Trimester	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
290	1	TOBUSE	Tobacco Use	667	U	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
291-292	2	CIGS	Cigarettes per Day	667	U	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
293	1	UCIG_REC6	Cigarette Recode	667	U	0 1 2 3 4 5 6 Blank	Non-smoker 1 to 5 cigarettes daily 6 to 10 cigarettes daily 11 to 20 cigarettes daily 21 to 40 cigarettes daily 41 or more cigarettes daily Unknown or not stated Not on certificate
294	1	CIG_REC	Cigarette Recode	575	R	Y N U Blank	Yes No Unknown or not stated Not on certificate
295	1	ALCOHOL	Alcohol Use	649	U	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
296-297	2	DRINKS	Drinks per Week	649	U	00-97 98 99 Blank	Number of drinks weekly 98 or more drinks weekly Unknown or not stated Not on certificate
298	1	DRINKS_REC	Drinks Recode	649	U	0 1	Non drinker 1 drink per week

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Position	1	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
							2 3 4 5 Blank	2 drinks per week 3-4 drinks per week 5 or more drinks per week Unknown or not stated Not on certificate
299-312		14	FILLER	Filler				
313-319		9	Risk Factors (Re The checkbox iter	vised) ns below follow this code struc	cture:		Y N U	Yes No Unknown or not stated
	313 314 315 316 317 318 319	1 1 1 1 1 1 1	RF_DIAB RF_GEST RF_PHYP RF_GHYP RF_ECLAM RF_PPTERM RF_PPOUTC	Prepregnancy Diabetes Gestational Diabetes Prepregnancy Hypertesion Gestational Hypertension Eclampsia Previous Preterm Birth Poor Pregnancy Outcome	585 586 587	R R R R R	Blank	Not on certificate
320-323		4	FILLER	Filler				
324		1	RF_CESAR	Previous Cesarean Deliver	ies 593	R	Y N U Blank	Yes No Unknown or not stated Not on certificate
325-326		2	RF_CESARN	Number of Previous Cesar	ean Deliveries 594	R	00 01-30 99 Blank	None Number of previous cesareans Unknown or not stated Not on certificate
327		1	FILLER	Filler				
328-344		17		ns indented below follow this s 1989 Standard unless otherwis		U	1 2 9 Blank	Yes No Unknown Not on certificate

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343		URF_ANEMIA URF_CARDC URF_LUNG URF_DIAB URF_GEN URF_HYDR URF_HYDR URF_CHYPER URF_PHYPER URF_ECLAM URF_INCERV URF_PRE4000 URF_PRETERM URF_RENAL URF_RH URF_RH URF_LUTERINE	Anemia Cardiac Acute or Chronic Lung D Diabetes Genital Herpes Hydramnios / Oligohydra Hemoglobinopathy Chronic Hypertension Prepregnancy Associated Eclampsia Incompetent Cervix Previous Infant 4000+ Gr Previous Preterm/Small for Renal Disease Rh Sensitization Uterine Bleeding	684 685 mnios 686 687 688 Hypertension 689 690 691 ams 692	U,R U,R U,R U,R		
344	1	URF_OTHER	Other medical risk factor				
345-350	6	FILLER	Filler				
351-354	4	Obstetric Proced The checkbox item	ures (Revised) ns indented below follow this	structure:		Y N U Blank	Yes No Unknown or not stated
351 352 353 354	1 1 1	OP_CERV OP_TOCOL OP_ECVS OP_ECVF	Cervical Cerclage Tocolysis Successful External Ceph Failed External Cephalic		R R R R	DIANK	Not on certificate
355-361	7		ures (Unrevised) ns indented below follow this 1989 Standard unless otherwi			1 2 9 Blank	Yes No Unknown or not stated Not on certificate
355 356 357 358 359	1 1 1 1	UOP_AMNIO UOP_MONIT UOP_INDUC UOP_STIML UOP_TOCOL	Amniocentesis Electronic Fetal Monitori Induction of Labor Stimulation of Labor Tocolysis	701 ng702 703 704 705	U,R U,R		

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Position	Len	Field	Description	Report Flag Po		Rev*	Values	Definition
360 361	1 1	UOP_ULTRA UOP_OTHER	Ultrasound Other Obstetric Procedure	706 es 707				
362-364	3	Onset of Labor The checkbox ite	ms below follow this structure:				Y N U Blank	Yes No Unknown or not stated Not on certificate
362	1	ON_RUPTR	Premature Rupture of Me	mbrane	605	R		
363	1	ON_PRECIP	Precipitous Labor		606	R		
364	1	ON_PROL	Prolonged Labor		607	R		
365-373	9	Characteristics of The checkbox ite.	of Labor and Delivery (Revisems below follow this structure:	<u>ed)</u>			Y N U Blank	Yes No Unknown or not stated Not on certificate
365	1	LD INDL	Induction of Labor	608		R	Dimin	
366		LD_AUGM	Augmentation of Labor	609		R		
367		LD_NVPR	Non-Vertex Presentation	610		R		
368		LD_STER	Steriods	611		R		
369		LD_ANTI	Antibiotics	612		R		
370	1	LD_CHOR	Chorioamnionitis	613		R		
371	1	LD_MECS	Meconium Staining	614		R		
372	1	LD_FINT	Fetal Intolerance	615		R		
373	1	LD_ANES	Anesthesia	616		R		
374-389 374 375 376 377 378	1 1 1	The checkbox ite	f Labor and Delivery (Unrevented the Index of In	structure: se noted.	711 712 713 714 715	U,R	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
379 380 381	1	ULD_EXCBL ULD_SEIZ ULD_PRECIP	Other Excessive Bleeding Seizures During Labor Precipitous Labor		716 717 718	U,R		

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Position	1	Len	Field	Description	Reporti Flag Po		Rev*	Values	Definition
	382 383 384 385 386 387 388 389	1 1 1 1 1 1 1	ULD_PROLG ULD_DYSFN ULD_BREECH ULD_CEPHAL ULD_CORD ULD_ANEST ULD_DISTR ULD_OTHER	Prolonged Labor Dysfunctional Labor Breech Cephalopelvic Disproportic Cord Prolapse Anesthetic Comlications Fetal Distress Other Complications	on	719 720 721 722 723 724 725 726	U,R		
390-394		5	Method of Delive	ry (Revised)					
	390	1	ME_ATTF	Attempted Forceps	617		R	Y N U Blank	Yes No Unknown Not on certificate
	391	1	ME_ATTV	Attempted Vacuum	618		R	Y N U Blank	Yes No Unknown Not on certificate
	392	1	ME_PRES	Fetal Presentation	619		R	1 2 3 9 Blank	Cephalic Breech Other Unknown Not on certificate
	393	1	ME_ROUT	Route & Method of Deliver	r y 620		R	1 2 3 4 9 Blank	Spontaneous Forceps Vacuum Cesarean Unknown Not on certificate
	394	1	ME_TRIAL	Trial of Labor Attempted	621		R	Y N X U Blank	Yes No Not applicable Unknown Not on certificate

395-400 6 <u>Method of Delivery (Unrevised)</u>

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
		The checkbox iter	ns indented below follow this	structure:		1 2 9	Yes No Unknown or not stated
395 396 397 398 399 400	1 1 1 1 1	UME_VAG UME_VBAC UME_PRIMC UME_REPEC UME_FORCP UME_VAC	Vaginal Vaginal after C-Section Primary C-Section Repeat C-Section Forceps Vacuum	730 731 732 733 734 735	U U U U U,R U,R	,	Olikilowii of not stated
401	1	RDMETH_REC	Delivery Method Recode	(Revised)	R	1 2 3 4 5 6	Vaginal (excludes vaginal after previous C-section) Vaginal after previous c-section Primary C-section Repeat C-section Vaginal (unknown if previous c-section) (2003 Standard only) C-section (unknown if previous c-section) (2003 Standard only) Not stated
402	1	UDMETH_REC	Delivery Method Recode	(Unrevised)	U	1 2 3 4 9	Vaginal (excludes vaginal after previous C-section) Vaginal after previous c-section Primary C-section Repeat C-section Not stated
403	1	DMETH_REC			U,R	1 2 9	Vaginal C-Section Unknown
404-409	6	FILLER	Filler				
410	1	ATTEND	Attendant		U,R	1 2 3 4 5 9	Doctor of Medicine (MD) Doctor of Osteopathy (DO) Certified Nurse Midwife (CNM) Other Midwife Other Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
411-414	4	FILLER	Filler				
415	2	APGAR5	Five Minute APGAR Score	e 574	U,R	00-10 99	A score of 0-10 Unknown or not stated
417	1	APGAR5R	Five Minute APGAR Reco	de 574	U,R	1 2 3 4 5	A score of 0-3 A score of 4-6 A score of 7-8 A score of 9-10 Unknown or not stated
418-422	5	FILLER	Filler				
423	1	DPLURAL	Plurality Recode		U,R	1 2 3 4 5	Single Twin Triplet Quadruplet Quintuplet or higher
424	1	FILLER	Filler				
425	1	IMP_PLUR	Plurality Imputed		U,R	Blank 1	Plurality is imputed Plurality is not imputed
426-435	10	FILLER	Filler				
436	1	SEX	Sex of Infant		U,R	M F	Male Female
437	1	IMP_SEX	Imputed Sex		U,R	Blank 1	Infant Sex not Imputed Infant Sex is Imputed
438-439	2	DLMP_MM	Last Normal Menses Mont	h	U,R	01 02 03 04 05 06 07 08	January February March April May June July August

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						09 10 11 12 99	September October November December Unknown or not stated
440-441	2	DLMP_DD	Last Normal Menses Day		U,R	01-31 99	As applicable to month of LMP Unknown or not stated
442-445	4	DLMP_YY	Last Normal Menses Year		U,R	nnnn 9999	Year of last normal menses Unknown or not stated
446-447	2	ESTGEST	Obstetric/Clinical Gestation	on Est. 573	U,R	0-98 99	0 through 98 th week of gestation Unknown or not stated
448-450	3	FILLER	Filler				
451-452	2	COMBGEST	Gestation – Detail in Week	S S	U,R	17-47 99	17 th through 47 th week of gestation Unknown
453-454	2	GESTREC10	Gestation Recode 10		U,R	01 02 03 04 05 06 07 08 09	Under 20 weeks 20-27 weeks 28-31 weeks 32-35 weeks 36 weeks 37-39 weeks 40 weeks 41 weeks 42 weeks and over Unknown
455	1	GESTREC3	Gestation Recode 3		U,R	1 2 3	Under 37 weeks 37 weeks and over Not stated
456	1	OBGEST_FLG	Clinical Estimate of Gestat	tion 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				
* I I D	Include	e data based on both	the 1080 Revision of the U.S.	Certificate of Live	Rirth (unr	eviced) an	d the 2003 Revision of the U.S. Certif

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
467-470	4	BRTHWGT	Imputed Birthweight		U,R	0227-81 9999	65 Number of grams Not stated birthweight
471-472	2	BWTR14	Birthweight Recode 14		U,R	01 02 03 04 05 06 07 08 09 10 11 12 13	499 grams or less 500 – 749 grams 750 – 999 grams 1000 - 1249 grams 1250 – 1499 grams 1500 – 1999 grams 2000 – 2499 grams 2500 – 2999 grams 3000 – 3400 grams 3500 – 3999 grams 4000 – 4499 grams 4500 – 4999 grams 5000 – 8165 grams Not Stated
473	1	BWTR4	Birthweight Recode 4		U,R	1 2 3 4	1499 grams or less 1500 – 2499 grams 2500 grams or more Unknown or not stated
474	1	FILLER	Filler				
475	1	BWTIMP	Imputed Birth Weight Fla	g	U,R	Blank 1	Birth Weight is not imputed Birth Weight is imputed
476-482	7		tions of the Newborn (Revisens below follow this structure:			Y N U Blank	Yes, Complication reported No Complication reported Unknown or not stated Not on certificate
476 477 478 479 480 481 482	1 1 1 1 1 1	AB_AVEN1 AB_AVEN6 AB_NICU AB_SURF AB_ANTI AB_SEIZ AB_BINJ	Assisted Ventilation Assisted Ventilation >6 hrs Admission to NICU Surfactant Antibiotics Seizures Birth Injury	628 R s 629 R 630 R 631 R 632 R 633 R 634 R		Diank	Not on certificate

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Position		Len	Field	Description	Reporting Flag Posit		Rev*	Values	Definition
483-491		9		tions of the Newborn (Unrent in the state of the St				1 2 9 Blank	Complication reported Complication not reported Complication not classifiable Not on certificate
4 4 4 4 4	183 184 185 186 187 188 189 190	1 1 1 1 1 1 1 1	UAB_ANEM UAB_INJURY UAB_ALCOH UAB_HYAL UAB_MECON UAB_VENL30 UAB_VEN30M UAB_NSEIZ UAB_OTHER	Anemia Birth Injury Fetal Alcohol Syndrome Hyaline Membrane Diseas Meconium Aspiration Syn Assisted Ventilation < 30 n Assisted Ventilation >= 36 Seizures Other Abnormal Condition	se 7 ndrome 7 min 7 0 min 7	741 742 743 744 745 746	U U U U U U U U U	DIAIIK	Not on cerunicate
492-503		12		nalies of the Newborn (Revisus below follow this structure				Y N U Blank	Yes, anomaly reported No, anomaly not reported Unknown Not on certificate
4 4 4 4 4 4 5	492 493 494 495 496 497 498 499 500 501	1 1 1 1 1 1 1 1 1	CA_ANEN CA_MNSB CA_CCHD CA_CDH CA_OMPH CA_GAST CA_LIMB CA_CLEFT CA_CLPAL CA_DOWN	Anencephaly Meningomyelocele/Spina Cyanotic Congenital Hear Congenital Diaphragmatic Omphalocele Gastroschisis Limb Reduction Defect Cleft Lip w/ or w/o Cleft I Cleft Palate alone Downs Syndrome	Bifida 6 rt Disease 6 c Hernia 6 6 6 6 Palate 6	536 537 538 539 540 541 542	R R R R R R R R R	C P N U	Confirmed Pending No Unknown
5	502	1	CA_DISOR	Suspected Chromosomal	Disorder 6	545	R	Blank C P N U Blank	Not on certificate Confirmed Pending No Unknown Not on certificate

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Position	ı	Len	Field	Description	Reporting Flag Posit		Rev*	Values	Definition
	503	1	СА_НҮРО	Hypospadias	ϵ	546	R	Y N U Blank	Yes, Anomaly reported No, Anomaly not reported Unknown Not on certificate
504-525		22	The checkbox item	nalies of the Newborn (Unreverse indented below follow this see 1989 Standard unless otherwise)	structure:			1 2 9 Blank	Anomaly reported Anomaly not reported Anomaly not classifiable Not on certificate
	504	1	UCA_ANEN	Anencephalus	7	752	U,R		
	505	1	UCA_SPINA	Spina Bifida / Meningocele	7	753	U,R		
	506	1	UCA_HYDRO	Hydrocephalus		754			
	507	1	UCA_MICRO	Microcephalus		755			
	508	1	UCA_NERV	Other Central Nervous Sys					
	509	1	UCA_HEART	Heart Malformations		757			
	510	1	UCA_CIRC	Other Circulatory/Respira					
	511	1	UCA_RECTAL	Rectal Atresia / Stenosis		759			
	512	1	UCA_TRACH	Tracheo-Esophageal Fistul		760			
	513	1	UCA_OMPHA	Omphalocele / Gastroschis		761	U,R		
	514	1	UCA_GASTRO	Other Gastrointestinal And		762			
	515	1	UCA_GENITAL	Malformed Genitalia		763			
	516	1	UCA_RENAL	Renal Agenesis		764			
	517	1	UCA_UROGEN	Other Urogenital Anoms.		765	*** D		
	518	1	UCA_CELFTLP	Cleft Lip / Palate		766	U,R		
	519	1	UCA_ADACTY	Polydactyly / Syndactyly / A		767			
	520 521	1	UCA_CLUBFT	Club Foot		768			
	521	1	UCA_HERNIA UCA_MUSCU	Diaphragmatic Hernia Other Musculoskeletal And		769 770			
	523	1	UCA_DOWNS	Downs Syndrome		770 771	U,R		
	524	1	UCA_CHROM	Other Chromosomal Anon		772	U,K		
	525	1	UCA_OTHER	Other Congenital Anoms.		773			
	323	1	OCA_OTHER	Other Congenital Anoms.	,	113			
526-568		43	FILLER	Filler					
569-773		205	Flag File for Reporting flags	orting Flags s indented below follow this co	oding structu	ure:		0	Not reporting Reporting
	569 570	1 1	F_MORIGIN F_FORIGIN	Origin of Mother Origin of Father			U,R U,R	-	

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571	1	E MEDIIC	Education of Mathen	R
572	1	F_MEDUC FILLER	Education of Mother Filler	K
573	1	F CLINEST	Clinical Estimate of Gestation	U.R
574	1	F_APGAR5	Five minute APGAR	U,R
575	1	F TOBACO	Tobacco use	R
576-581	6	FILLER	Filler	10
582	1	F_RF_PDIAB	Prepregnancy Diabetes	R
583	1	F_RF_GDIAB	Gestational Diabetes	R
584	1	F_RF_PHYPER	Prepregnancy Hypertension	R
585	1	F_RF_GHYPER	Gestational Hypertension	R
586	1	F_RF_ECLAMP	Eclampsia	R
587	1	F_RF_PPB	Previous Preterm Birth	R
588	1	F_RF_PPO	Poor Pregnancy Outcome	R
589-592	4	FILLER	Filler	
593	1	F_RF_CESAR	Previous Cesarean	R
594	1	F_RF_NCESAR	Number of Previous Cesareans	R
595-600	6	FILLER	Filler	
601	1	F_OB_CERVIC	Cervical Cerclage	R
602	1	F_OB_TOCO	Tocolysis	R
603	1	F_OB_SUCC	Successful External Cephalic Version	R
604	1	F_OB_FAIL	Failed External Cephalic Version	R
605	1		Premature Rupture of Membranes	R
606	1	F_OL_PRECIP	Precipitous Labor	R
607	1	F_OL_PROLONG	Prolonged Labor	R
608	1	F_LD_INDUCT	Induction of Labor	R
609	1		Augmentation of Labor	R
610	1	F_LD_NVRTX	Non-Vertex Presentation	R
611	1	F_LD_STEROIDS		R
612	1	F_LD_ANTIBIO	Antibiotics	R
613	1	F_LD_CHORIO	Chorioamnionitis	R
614	1	F_LD_MECON	Meconium Staining	R
615	1	F_LD_FINTOL	Fetal Intolerance	R
616	1	F_LD_ANESTH	Anesthesia	R
617	1	F_MD_ATTFOR	Attempted Forceps	R
618	1	F_MD_ATTVAC	Attempted Vacuum	R
619	1		Fetal Presentation	R
620	1	F_MD_ROUTE	Final Route and Method of Delivery	R
621	1	F_MD_TRIAL	Trial of Labor Attempted	R
622-627	6	FILLER	Filler	D
628	1	F_AB_VENT	Assisted Ventilation	R
629	1	F_AB_VENT6	Assisted Ventilation >6 hrs	R

Description

Reporting

Flag Position

Rev*

Values Definition

Position

Len

Field

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630	1	F_AB_NICU	Admission to NICU	R
631	1	F_AB_SURFAC	Surfactant	R
632	1	F_AB_ANTIBIO	Antibiotics	R
633	1	F_AB_SEIZ	Seizures	R
634	1	F_AB_INJ	Birth Injury	R
635	1	F_CA_ANEN	Anencephaly	R
636	1	F_CA_MENIN	Meningomyelocele/Spina Bifida	R
637	1	F_CA_HEART	Cyanotic Congenital Heart Disease	R
638	1	F_CA_HERNIA	Congenital Diaphragmatic Hernia	R
639	1	F_CA_OMPHA	Omphalocele	R
640	1	F_CA_GASTRO	Gastroschisis	R
641	1	F_CA_LIMB	Limb Reduction Defect	R
642	1	F_CA_CLEFTLP	Cleft Lip w/ or w/o Cleft Palate	R
643	1	F_CA_CLEFT	Cleft Palate Alone	R
644	1	F_CA_DOWNS	Downs Syndrome	R
645	1	F_CA_CHROM	Suspected Chromosomal Disorder	R
646	1	F_CA_HYPOS	Hypospadias	R
647	1	F_MED	Mother's Education	U
648	1	F_WTGAIN	Weight Gain	U,R
649	1	F_ALCOL	Alcohol use	U
650	1	F_API	API Codes	U
651-666	16	FILLER	Filler	
667	1	F_TOBAC	Tobacco Use	U
668	1	F_MPCB	Month Prenatal Care Began	R
669	1	F_MPCB_U	Month Prenatal Care Began	U
670-680	11	FILLER	Filler	
681	1	F_URF_ANEMIA	Anemia	U
682	1	F_URF_CARDIAC	C Cardiac	U
683	1	F_URF_LUNG	Acute or Chronic Lung Disease	U
684	1	F_URF_DIABETES		U
685	1	F_URF_HERPES		U
686	1	F_URF_HYDRA	Hydramnios / Oligohydramnios	U
687	1	F_URF_HEMO	Hemoglobinopathy	U
688	1	F_URF_CHYPER	Chronic Hypertension	U
689	1		Pregnancy Associated Hypertension	U
690	1	F_URF_ECLAMP		U
691	1		Incompetent Cervix	U
692	1		Previous Infant 4000+ Grams	U
693	1		Previous Preterm/Small for Gestation	U
694	1	F_URF_RENAL	Renal Disease	U
695	1	F_URF_RH	Rh Sensitization	U

Description

Reporting

Flag Position

Rev*

Values Definition

Position

Field

Len

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696	1	F_URF_UTERINE Uterine Bleeding	U
697	1	F_URF_OTHERMR Other Medical Risk Factors	U
698-700	3	FILLER Filler	C
701	1	F UOB AMNIO Amniocentesis	U
702	1	F UOB MONITOR Electronic Fetal Monitoring	Ü
703	1	F_UOB_INDUCT Induction of Labor	U
704	1	F_UOB_STIMUL Stimulation of Labor	Ü
705	1	F_UOB_TOCOL Tocolysis	Ü
706	1	F_UOB_ULTRAS Ultrasound	U
707	1	F_UOB_OTHEROB Other Obstetric Procedures	Ū
708-710	3	FILLER Filler	
711	1	F_ULD_FEBRILE Febrile	U
712	1	F_ULD_MECONIUM Meconium	U
713	1	F_ULD_RUPTURE Premature Rupture of Membrane	U
714	1	F_ULD_ABRUPTIO Abruption Placenta	U
715	1	F_ULD_PREPLACE Placenta Previa	U
716	1	F_ULD_EXCEBLD Other Excessive Bleeding	U
717	1	F_ULD_SEIZURE Seizures During Labor	U
718	1	F_ULD_PRECIP Precipitous Labor	U
719	1	F_ULD_PROLONG Prolonged Labor	U
720	1	F_ULD_DYSFUNC Dysfunctional Labor	U
721	1	F_ULD_BREECH Breech	U
722	1	F_ULD_CEPHALO Cephalopelvic Disproportion	U
723	1	F_ULD_CORD Cord Prolapse	U
724	1	F_ULD_ANESTHE Anesthetic Complications	U
725	1	F_ULD_DISTRESS Fetal Distress	U
726	1	F_ULD_OTHERLD Other Complications	U
727-729	3	FILLER Filler	
730	1	F_U_VAGINAL Vaginal	U
731	1	F_U_VBAC Vaginal after C-Section	U
732	1	F_U_PRIMAC Primary C-Section	U
733	1	F_U_REPEAC Repeat C-Section	U
734	1	F_U_FORCEP Forceps	U
735	1	F_U_VACUUM Vacuum	U
736-739	4	FILLER Filler	
740	1	F_UAB_ANEMIA Anemia	U
741	1	F_UAB_INJURY Birth Injury	U
742	1	F_UAB_ALCOSYN Fetal Alcohol Sydrome	U
743	1	F_UAB_HYALINE Hyaline Membrane Disease	U
744	1	F_UAB_MECONSYN Meconium Aspiration Syndrome	U
745	1	F_UAB_VENL30 Assisted Ventilation <30 minutes	U

Description

Reporting

Flag Position

Rev*

Values Definition

Position

Field

Len

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				Flag Position		
	746	1	F UAB VEN30M	Assisted Ventilation >=30 minutes	U	
	747	1	F_UAB_NSEIZ	Seizures	U	
	748	1		Other Abnormal Conditions	U	
	749-751	3	FILLER	Filler		
	752	1	F_UCA_ANEN	Anencephalus	U	
	753	1	F_UCA_SPINA	Spina Bifida / Meningocele	U	
	754	1	F_UCA_HYDRO	Hydrocephalus	U	
	755	1	F_UCA_MICROCE	Microcephalus	U	
	756	1	F_UCA_NERVOUS	Other Central Nervous System Anomalies	U	
	757	1	F_UCA_HEART	Heart Malformations	U	
	758	1	F_UCA_CIRCUL	Other Circulatory / Respiration Anomalies	U	
	759	1	F_UCA_RECTAL	Rectal Atresia / Stenosis	U	
	760	1	F_UCA_TRACHEO	Tracheo-Esophageal Fistula	U	
	761	1	F_UCA_OMPHALO	Omphalocele / Gastroschisis	U	
	762	1	F_UCA_GASTRO	Other Gastrointestinal Anomalies	U	
	763	1	F_UCA_GENITAI	_ Malformed Genitalia	U	
	764	1	F_UCA_RENALAG		U	
	765	1	F_UCA_UROGEN	Other Urogenital Anomalies	U	
	766	1	F_UCA_CLEFTLP	Cleft Lip / Palate	U	
	767	1	F_UCA_ADACTYL	Polydactyly / Syndactyly / Adactyly	U	
	768	1	F_UCA_CLUB	Club Foot	U	
	769	1		Diaphragmatic Hernia	U	
	770	1		Other Musculoskeletal Anomalies	U	
	771	1		Downs Syndrome	U	
	772	1	F_UCA_CHROMO	Other Chromosomal Anomalies	U	
	773	1	F_UCA_OTHRCON	Other Congenital Anomalies	U	
774-799		26	FILLER	Filler		
800-823		24	Mother's Race Ed	ited	R**	100-999 Mother's Race Edited Code
						A00-R99
	800	3	MRACE1E			
	803	3	MRACE2E			
	806	3	MRACE3E			
	809	3	MRACE4E			
	812	3	MRACE5E			
	815	3	MRACE6E			
	818	3	MRACE7E			
	821	3	MRACE8E			

Reporting

Rev*

Values Definition

Position

Field

Len

Description

^{**} Also includes unrevised states that are reporting multiple race

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Position	l	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
824-834		11	FILLER	Filler				
025 050				•. •		TO alcale	100.000	
835-858		24	Father's Race Ed	<u>ited</u>		R**	100-999 A00-R99	Father's Race Edited Code
	835	3	FRACE1E					
	838	3	FRACE2E					
	841	3	FRACE3E					
	844	3	FRACE4E					
	847	3	FRACE5E					
	850	3	FRACE6E					
	853	3	FRACE7E					
	856	3	FRACE8E					
			** Also includes u	inrevised states that are reporti	ing multiple race			
859-867		9	FILLER	Filler				
868		1	FLGND	Flag indicating records in bo	oth numerator and de	enominato	r file	
								1 D 1 1 4 C1
								1 Record in both files Blank Record not in numerator file
								Blank Record not in numerator the
869-871		3	FILLER	Filler				
872-874		3	AGED	Age at Death in Days			000-365	Number of days
875		1	AGER5	Infant age recode 5			1	Under 1 hour
							2	1 – 23 hours
							3	1 – 6 days
							4	7 – 27 days (late neonatal)
							5	28 days and over (postneonatal)
876-877		2	AGER22	Infant age recode 22			Blank	Age 1 year and over or not stated
							01	Under 1 hour (includes not stated hours and minutes)
							02	1 – 23 hours
							03	1 day (includes not stated days)
							04	2 days
							05	3 days
							06	4 days
							07	5 days
							08	6 days

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						09	7-13 days
						10	14 – 20 days
						11	21 – 27 days
						12	1 month (includes not stated months)
						13	2 months
						14	3 months
						15	4 months
						16	5 months
						17	6 months
						18 19	7 months 8 months
						20	9 months
						21	10 months
						22	11 months
878	1	MANNER	Manner of Death			1	Accident
						2	Suicide
						3	Homicide
						4	Pending investigation
						5	Could not determine
						6	Self-inflicted
						7 Blank	Natural Not specified
						Dialik	Not specified
879	1	DISPO	Method of Disposition			В	Burial
			•			C	Cremation
						D	Donation
						E	Entombment
						O	Other
						R	Removal from state
						U	Unknown
880	1	AUTOPSY	Autopsy			Y	Yes
000	•	710 10101	rutopsy			N	No
						U	Unknown
881	1	FILLER	Filler				
882	1	PLACE	Place of injury for causes	W00-Y34, excent Y	706	0	Home
	•	. 2 2.	and Y07	o zo i, encept i		1	Residential institution
						2	School, other institution and public administrative area

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						3 4 5 6 7 8 9 Blank	Sports and athletics area Street and highway Trade and service area Industrial and construction area Farm Other Specified Places Unspecified place Cause other than W00-Y34, except Y06 and Y07
883	1	FILLER	Filler				
884-887	4	UC0D	ICD Code (10 th Revision) See the <u>International Classif</u> Revision, Volume 1.	fication of Diseases,	1992		
888	1	FILLER	Filler				
889-891	3	UCODR130	130 Infant Cause Recode			001-158	Code Range
892	1	FILLER	Filler				
893-900	8	RECWT	Record Weight (no weights	s computed for posse	essions file	e) 1.XXXX	XXX
Here ends the De	enominato	or file. Documentat	ion of the Mortality Section	of the Numerator (Linked) f	ile begins	at position 901.
901-902	2	FILLER	Filler				

901-902	2	FILLER	Filler				
903-904	2	EANUM	Number of Entity	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: 1 2	Part/line	number on certificate Part I, line 1 (a) Part I, line 2 (b)		

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Position	Len	Field	Description		Reporting Flag Position	Rev*	Values	Definition
			3 4 5 6		Part I, line 3 (c) Part I, line 4 (d) Part I, line 5 (e) Part II			
			Position 2: 1-7	Sequeno	ce of condition within Code range	n part/line	;	
			Position 3 – 6: C See Ta		ode complete list of code	es		
912-9 919-9 926-9 933-9 940-9 947-9 954-9 968-9 975-9 982-9 989-1 1003-1010-1017-1024-1031-1	011 7 018 7 025 7 032 7 039 7 046 7 053 7 060 7 067 7 074 7 081 7 002 7 -1009 7 -1016 7 -1023 7 -1030 7 -1037 7 -1044 7		1 st Condition 2 nd Condition 3 rd Condition 4 th Condition 5 th Condition 6 th Condition 8 th Condition 9 th Condition 10 th Condition 11 th Condition 12 th Condition 12 th Condition 13 th Condition 14 th Condition 14 th Condition 15 th Condition 15 th Condition 16 th Condition 17 th Condition 17 th Condition 17 th Condition 19 th Condition					
1045-1046	2	FILLER	Filler					
1047-1048	2	RANUM	Number of Rec	ord-Axis C	onditions		00-20	Code range
1049-1148	100	RECORD	conditions. Each record. The 5 th p	provided for a condition to position will	r a maximum of 20 takes 5 positions in the blank. Records the blank in the unuse	hat		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			Positions 1 – 4: Condition 6 See Table 1 for a	Code complete list of cod	es		
1054 1059 1064 1069 1074 1079 1084 1089 1094 1099	-1053 5 -1058 5 -1063 5 -1068 5 -1073 5 -1078 5 -1083 5 -1083 5 -1093 5 -1098 5 -1103 5 -1113 5		1 st Condition 2 nd Condition 3 rd Condition 4 th Condition 5 th Condition 6 th Condition 7 th Condition 8 th Condition 9 th Condition 10 th Condition 11 th Condition 12 th Condition 13 th Condition				
1119 1124 1129	-1118 5 -1123 5 -1128 5 -1133 5 -1138 5		14 th Condition 15 th Condition 16 th Condition 17 th Condition 18 th Condition				
1139	-1143 5 -1148 5		19 th Condition 20 th Condition				
1149-1150	2	FILLER	Filler				
1151	1	D_RESTATUS	Death Resident Status				
			United States Occurrence			1	RESIDENTS State and County of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS State of Occurrence and Residence are the same, but County is different.
						3	INTERSTATE NONRESIDENTS State of Occurrence and Residence are different, but both
						4	are in the U.S. FOREIGN RESIDENTS State of Occurrence is one of the 50 States or the District of

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Columbia, but Place of Residence is outside of the U.S.

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			Puerto Rico Occurrence			1	RESIDENTS Territory and County-equivalent of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS Territory of Occurrence and Residence are the same, but County-equivalent is different.
						3	INTERTERRITORY NONRESIDENTS Territory of occurrence and residence are different, but both are a Territory.
						4	FOREIGN RESIDENTS Occurred in Puerto Rico to a resident of any other place.
			Virgin Islands Occurrence			1	RESIDENTS Territory and County-equivalent of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS Territory of Occurrence and Residence are the same, but County-equivalent is different.
						3	INTERTERRITORY NONRESIDENTS Territory of occurrence and residence are different, but both are a Territory.
						4	FOREIGN RESIDENTS Occurred in Virgin Islands to a resident of any other place.
			Guam Occurrence			1	RESIDENTS Occurred in Guam to a resident of Guam or to a resident of the U.S.
						3	INTERTERRITORY NONRESIDENTS Territory of occurrence and residence are different, but both are a Territory.
						4	FOREIGN RESIDENTS Occurred in Guam to a resident of any place other than Guam or the U.S.
1152-1153	2	STOCCFIPD	State of Occurrence (FIPS (This item is available in th only, geographic codes are available in the U.S.file)	e territory file			

PR Puerto Rico

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						VI GU	Virgin Islands Guam
1154-1156	3	CNTOCFIPD	County of Occurrence (F Counties and county equiv coextensive cities) are num State and identify each cou a county, both the state and complete list of counties is Outline further back in this (This item is available in the only, geographic codes are available in the U.S.file)	alents (independent and alphabetically inty. (Note: To unique document of shown in the Geograms document.)	within ead uely identifibe used.)	fy A	
						001-nnn 999	Code range County of less than 250,000
1157-1159	3	FILLER	Filler				
1157-1159 1160-1161	3 2	FILLER STRESFIPD	State of Residence (FIPS) (This item is available in the only, geographic codes are available in the U.S.file)	ne territory file			
			State of Residence (FIPS) (This item is available in the only, geographic codes are	ne territory file		PR VI GU	Puerto Rico Virgin Islands Guam
			State of Residence (FIPS) (This item is available in the only, geographic codes are available in the U.S.file)	ne territory file		VI	Virgin Islands
			State of Residence (FIPS) (This item is available in the only, geographic codes are available in the U.S.file) Territories	ne territory file e not		VI GU PR US,ZZ VI	Virgin Islands Guam Puerto Rico
			State of Residence (FIPS) (This item is available in the only, geographic codes are available in the U.S.file) Territories Puerto Rico Occurrence	ne territory file e not		VI GU PR US,ZZ VI	Virgin Islands Guam Puerto Rico Foreign residents Virgin Islands

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Position		Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
1164-116	5 2	2	DRCNTY	State/Country of Residence (This item is available in the only, geographic codes are available in the U.S.file)	e territory file			
				Territorial residents			PR VI GU	Puerto Rico Virgin Islands Guam
				Foreign residents			CC MX CU YY	Canada Mexico Cuba Remainder of the world
				Puerto Rico Occurrence			PR US,ZZ	Puerto Rico Foreign residents
				Virgin Islands Occurrence			VI US, ZZ	Virgin Islands Foreign residents
				Guam Occurrence			GU US ZZ	Guam U.S. resident. Also considered a resident of Guam Foreign residents
1166-116	7	3	CNTYRFPD	County of Residence (FIPS Counties and county equiva coextensive cities) are numb each State and identify each identify a county, both the s be used.) A complete list of Geographic Code Outline for (This item is available in the codes are not available in the	lents (independent and bered alphabetically we in county. (Note: To un state and county codes of counties is shown in surther back in this doc the territory file only, ge	rithin niquely must the ument.		
							000 001-nnn 999	Foreign residents Code range County of less than 250,000
1169-118	1	13	FILLER	Filler				
1182		1	CNTRSPPD	Population Size of County Based on the results of the 2		th		
	* U,R	Include (revised		n the 1989 Revision of the U.S.	. Certificate of Live B	irth (unre	evised), an	d the 2003 Revision of the U.S. Certificate of Live Birth
	U R	Include	es data based on botl	n the 1989 Revision of the U.S. n the 2003 Revision of the U.S.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			(This item is available in the only, geographic codes are available in the U.S.file)				
			·			0	County of 1,000,000 or more
						1	County of 500,000 to 1,000,000
						2 9	County of 250,000 to 500,000 County of less than 250,000
						Z	Foreign residents
						L	1 oreign residents
1183-1185	3	FILLER	Filler				
1186	1	HOSPD	Place of Death and Decen	dent's Status		1	Hospital, clinic or Medical Center – Inpatient
						2	Hospital, clinic or Medical Center – Outpatient or admitted
							to Emergency Room
						3	Hospital, clinic or Medical Center – Dead on Arrival
						4 5	Decedent's home Hospice facility
						6	Nursing home/long term care
						7	Other
						9	Place of death unknown
1187	1	WEEKDAYD	Day of Week of Death			1	Sunday
1107	•	WEEKBILLE	Day of Week of Beath			2	Monday
						3	Tuesday
						4	Wednesday
						5	Thursday
						6	Friday
						7	Saturday
						9	Unknown
1188-1191	4	DTHYR	Death Year			2005	2005
						2006	2006
1192-1257	66	FILLER	Filler				
1258-1259	2	DOD_MM	Month of Death			01	January
1430-1437	4	DOD_MIM	Month of Death			02	February
						03	March
						04	April
						05	May
						06	June

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

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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						07 08 09 10 11	July August September October November December

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

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

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

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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
       T Sex Age Cause Title and ICD-10 Codes Included
Recode
001
                  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)
                    Septicemia (A40-A41)
009
010
                    Congenital syphilis (A50)
                    Gonococcal infection (A54)
011
012
                    Viral diseases (A80-B34)
 013
                      Acute poliomyelitis (A80)
                      Varicella (chickenpox) (B01)
014
 015
                      Measles (B05)
016
                      Human immunodeficiency virus (HIV) disease (B20-B24)
017
                      Mumps (B26)
                      Other and unspecified viral diseases (A81-B00,B02-B04,B06-B19,B25,B27-B34)
018
019
                    Candidiasis (B37)
 020
                    Malaria (B50-B54)
 021
                    Pneumocystosis (B59)
                    All other and unspecified infectious and parasitic diseases
022
                       (A20-A32, A38, A42-A49, A51-A53, A55-A79, B35-B36, B38-B49, B55-B58, B60-B99)
 023
                  Neoplasms (C00-D48)
024
                    Malignant neoplasms (C00-C97)
                      Hodgkin's disease and non-Hodgkin's lymphomas (C81-C85)
 025
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)
                    Hemorrhagic conditions and other diseases of blood and blood-forming organs
031
                      (D65-D76)
 032
                    Certain disorders involving the immune mechanism (D80-D89)
                  Endocrine, nutritional and metabolic diseases (E00-E88)
 033
034
                    Short stature, not elsewhere classified (E34.3)
035
                    Nutritional deficiencies (E40-E64)
036
                    Cystic fibrosis (E84)
037
                    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
                  Diseases of the nervous system (G00-G98)
                    Meningitis (G00,G03)
040
 041
                    Infantile spinal muscular atrophy, type I (Werdnig-Hoffman) (G12.0)
042
                    Infantile cerebral palsy (G80)
                    Anoxic brain damage, not elsewhere classified (G93.1)
 043
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
                  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)
                    Cerebrovascular diseases (I60-I69)
051
052
                    All other diseases of circulatory system (I00-I25, I31, I34-I38, I44-I45, I47-I51,
                      I70-I99)
 053
                  Diseases of the respiratory system (J00-J98)
        1
                    Acute upper respiratory infections (J00-J06)
054
```

Influenza and pneumonia (J10-J18)

055

1

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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
       T Sex Age Cause Title and ICD-10 Codes Included
Recode
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
                  Diseases of the digestive system (K00-K92)
                    Gastritis, duodenitis, and noninfective enteritis and colitis (K29,K50-K55)
064
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)
                  Diseases of the genitourinary system (N00-N95)
067
 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
                  Certain conditions originating in the perinatal period (P00-P96)
        1
071
                    Newborn affected by maternal factors and by complications of pregnancy, labor and
                      delivery (P00-P04)
                      Newborn affected by maternal hypertensive disorders (P00.0)
 072
                      Newborn affected by other maternal conditions which may be unrelated to present
073
                        pregnancy (P00.1-P00.9)
 074
                      Newborn affected by maternal complications of pregnancy (P01)
                        Newborn affected by incompetent cervix (P01.0)
075
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
                      Newborn affected by complications of placenta, cord and membranes (PO2)
        1
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 (PO3)
                      Newborn affected by noxious influences transmitted via placenta or breast milk
085
086
        1
                    Disorders related to length of gestation and fetal malnutrition (P05-P08)
087
                      Slow fetal growth and fetal malnutrition (P05)
                      Disorders related to short gestation and low birthweight, not elsewhere
088
                        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 (PO8)
092
                    Birth trauma (P10-P15)
                    Intrauterine hypoxia and birth asphyxia (P20-P21)
 093
        1
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)
                      Interstitial emphysema and related conditions originating in the perinatal period
100
                        (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
                    Infections specific to the perinatal period (P35-P39)
106
                      Bacterial sepsis of newborn (P36)
```

Omphalitis of newborn with or without mild hemorrhage (P38)

107

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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
       T Sex Age Cause Title and ICD-10 Codes Included
Recode
108
                      All other infections specific to the perinatal period (P35,P37,P39)
109
                    Hemorrhagic and hematological disorders of newborn (P50-P61)
        1
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)
                    Hydrops fetalis not due to hemolytic disease (P83.2)
116
117
                    Other perinatal conditions (P29, P70.3-P70.9, P71-P76, P78-P81, P83.0-P83.1,
                      P83.3-P83.9, P90-P96)
                  Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
118
119
                    Anencephaly and similar malformations (Q00)
120
                    Congenital hydrocephalus (Q03)
121
                    Spina bifida (Q05)
                    Other congenital malformations of nervous system (Q01-Q02,Q04,Q06-Q07)
122
123
                    Congenital malformations of heart (Q20-Q24)
124
                    Other congenital malformations of circulatory system (Q25-Q28)
125
                    Congenital malformations of respiratory system (Q30-Q34)
                    Congenital malformations of digestive system (Q35-Q45)
126
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)
                    Edward's syndrome (Q91.0-Q91.3)
130
131
                    Patau's syndrome (Q91.4-Q91.7)
132
                    Other congenital malformations and deformations (Q10-Q18,Q86-Q89)
                    Other chromosomal abnormalities, not elsewhere classified (Q92-Q99)
133
134
        1
                  Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere
                    classified (R00-R99)
135
                    Sudden infant death syndrome (R95)
                    Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere
136
                      classified (R00-R53, R55-R94, R96-R99)
137
                  All other diseases (Residual) (F01-F99,H00-H57,L00-M99)
                  External causes of mortality (*U01, V01-Y84)
138
        1
139
                    Accidents (unintentional injuries) (V01-X59)
        1
140
        1
                      Transport accidents (V01-V99)
                        Motor vehicle accidents(V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2,
141
                          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)
                      Falls (W00-W19)
143
144
                      Accidental discharge of firearms (W32-W34)
145
                      Accidental drowning and submersion (W65-W74)
146
                      Accidental suffocation and strangulation in bed (W75)
                      Other accidental suffocation and strangulation (W76-W77,W81-W84)
147
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
                    Assault (homicide) (*U01, X85-Y09)
                      Assault (homicide) by hanging, strangulation and suffocation (X91)
153
                      Assault (homicide) by discharge of firearms (*U01.4,X93-X95)
154
                      Neglect, abandonment and other maltreatment syndromes (Y06-Y07)
155
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)
```

Complications of medical and surgical care (Y40-Y84)

157

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, 2005 Link Birth Cohort Data.

(Residence of birth is of the mother)

	Live bi	rths	Infant deaths						
State	Occurrence	Residence	Unweigh Occurrence	ted Residence	Weighted Occurrence	1/ Residence			
United States /2	4145887	4138577	27968	27893	28332	28255			
Alabama	59300	60453	568	574	569	575			
Alaska	10366	10459	60	62	61	63			
Arizona	96549	96199	626	629	637	640			
Arkansas	38384	39208	289	314	290	315			
California	550143	548882	2830	2835	2913	2918			
Colorado	69210	68944	465	444	466	445			
Connecticut	42145	41718	240	250	240	250			
Delaware	12265	11643	103	102	103	102			
Dist of Columbia	14312	7971	147	109	147	109			
Florida	226759	226243	1656	1649	1662	1655			
Georgia	143491	142200	1164	1145	1164	1145			
Hawaii	17923	17924	120	115	121	116			
Idaho	22526	23062	126	143	127	144			
Illinois	175721	179020	1243	1289	1262	1308			
Indiana	87864	87193	711	730	715	735			
Iowa	39338	39311	185	201	185	201			
Kansas	40743	39888	298	299	298	299			
Kentucky	54593	56444	341	379	347	385			
Louisiana	60489	60941	571	543	609	579			
Maine	13989	14112	93	93	93	93			
Marvland	71302	74980	535	555	536	556			
Massachusetts	77839	76866	389	382	390	383			
	126618	127706	1005	1006	1006	1007			
Michigan									
Minnesota	70953	70919	388	373	388	373			
Mississippi	41179	42395	447	477	455	485			
Missouri	79531	78618	622	577	624	579			
Montana	11556	11583	90	90	90	90			
Nebraska	26350	26145	162	152	162	152			
Vevada	36958	37268	214	210	219	215			
New Hampshire	13968	14424	74	80	74	80			
New Jersey	110837	113778	556	583	560	587			
New Mexico	28346	28835	164	168	166	170			
New York	125301	128858	752	775	760	783			
New York City	122724	117507	686	656	687	657			
North Carolina	123951	123096	1100	1098	1104	1102			
North Dakota	9622	8390	58	55	58	55			
Ohio	148912	148388	1191	1149	1223	1179			
Oklahoma	50657	51801	395	402	400	407			
Oregon	46715	45922	271	250	279	257			
Pennsylvania	144965	145399	1081	1053	1086	1058			
Rhode Island	13486	12697	99	82	99	82			
South Carolina	55324	57711	483	523	483	523			
South Dakota	11958	11462	85	83	85	83			
'ennessee	87083	81748	801	709	802	710			
'exas	392222	385920	2406	2387	2505	2485			
Jtah	52563	51556	249	234	250	235			
Vermont	6138	6473	43	40	43	40			
'irginia	102647	104555	750	766	751	767			
Jashington	82372	82703	400	405	402	407			
Washington West Virginia	21150	20836	178	177	178	177			
Jisconsin	69771	70984	425	442	425	442			
yoming	6779	7239	33	49	33	49			
oreign Residents	0119	7310	33	49 75	33	49 77			
	50577		464	461	464	461			
Puerto Rico		50564							
/irgin Islands	1592	1605	9	12	9	12			
Guam	3190	3180	37	37	37	37			

^{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.

Live births, infant deaths, and infant mortality rates by race of mother, sex and birthweight of child: United States, 2005 birth cohort data

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 races¹										
Both sexes										
Live births	4,138,577 28,255 6.83	7,274 6,241 857.99	11,755 5,494 467.38	12,526 1,891 150.97	14,352 1,037 72.25	17,123 814 47.54	66,584 1,752 26.31	210,540 2,256 10.72	3,797,881 8,650 2.28	542 121 223.25
Male										
Live birthsInfant deathsInfant mortality rate	2,119,104 15,924 7.51	3,619 3,142 868.20	6,001 3,178 529.58	6,531 1,223 187.26	7,353 625 85.00	8,593 443 51.55	32,618 970 29.74	96,772 1,203 12.43	1,957,321 5,061 2.59	296 80 270.27
Female										
Live births	2,019,473 12,330 6.11	3,655 3,099 847.88	5,754 2,315 402.33	5,995 668 111.43	6,999 411 58.72	8,530 370 43.38	33,966 782 23.02	113,768 1,054 9.26	1,840,560 3,589 1.95	246 42 170.73
White										
Both sexes										
Live birthsInfant deathsInfant mortality rate	3,229,497 18,361 5.69	4,058 3,489 859.78	6,866 3,276 477.13	7,732 1,219 157.66	9,222 694 75.25	11,516 535 46.46	45,938 1,176 25.60	146,566 1,590 10.85	2,997,238 6,320 2.11	361 63 174.52
Male										
Live births	1,655,919 10,394 6.28	2,019 1,749 866.27	3,490 1,861 533.24	4,058 784 193.20	4,847 416 85.83	5,834 289 49.54	22,771 653 28.68	67,826 870 12.83	1,544,879 3,729 2.41	195 43 220.51
Female										
Live births	1,573,578 7,968 5.06	2,039 1,740 853.36	3,376 1,415 419.14	3,674 435 118.40	4,375 278 63.54	5,682 246 43.29	23,167 523 22.58	78,740 720 9.14	1,452,359 2,591 1.78	166 19 *
Black										
Both sexes										
Live birthsInfant deathsInfant mortality rate	633,153 8,406 13.28	2,864 2,456 857.54	4,341 1,948 448.74	4,172 586 140.46	4,378 279 63.73	4,659 227 48.72	16,632 473 28.44	49,415 554 11.21	546,550 1,830 3.35	142 53 373.24
Male										
Live births	321,271 4,703 14.64	1,432 1,247 870.81	2,218 1,164 524.80	2,129 384 180.37	2,111 167 79.11	2,286 130 56.87	7,802 269 34.48	22,086 272 12.32	281,127 1,040 3.70	80 31 387.50
Female										
Live births	311,882 3,703 11.87	1,432 1,210 844.97	2,123 785 369.76	2,043 202 98.87	2,267 112 49.40	2,373 97 40.88	8,830 204 23.10	27,329 282 10.32	265,423 790 2.98	62 21 338.71

 $[\]overline{\mbox{\ensuremath{}^{1}/\ensuremath{}}\mbox{Includes races other than white and black.}}$

					Ges	tation				
Birthweight	Total	<28 Weeks	28-31 Weeks	32-35 Weeks	36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
All races¹										
Total										
Live births	4,138,577 28,255 6.83	31,606 12,933 409.19	51,822 2,385 46.02	243,945 2,672 10.95	195,571 1,093 5.59	2,199,904 5,760 2.62	790,465 1,527 1.93	355,868 755 2.12	239,850 629 2.62	29,546 500 16.92
Less then 2,500 grams										
Live births	340,154 19,484 57.28	30,511 12,910 423.13	39,790 2,268 57.00	116,976 1,926 16.46	40,070 499 12.45	86,976 1,169 13.44	11,450 204 17.82	5,063 105 20.74	6,090 115 18.88	3,228 288 89.22
Less then 500 grams										
Live births	7,274 6,241 857.99	6,839 5,930 867.09	243 164 674.90	20 15 *	4 3 *	7 3 *	10 10 *	7 6 *	1 1 *	143 108 755.24
500-749 grams										
Live births	11,755 5,494 467.38	10,129 5,004 494.03	1,279 349 272.87	114 44 385.96	5 - *	28 9 *	10 4 *	4 2 *	3 2 *	183 79 431.69
750-999 grams										
Live births	12,526 1,891 150.97	7,675 1,410 183.71	4,073 383 94.03	436 51 116.97	35 4 *	119 16 *	28 4 *	12 1 *	11 - *	137 22 160.58
1,000-1,249 grams										
Live births	14,352 1,037 72.25	3,277 372 113.52	7,851 445 56.68	2,190 148 67.58	159 11 *	426 27 63.38	128 9 *	76 5 *	72 5 *	173 14 *
1,250-1,499 grams										
Live births	17,123 814 47.54	907 86 94.82	9,110 371 40.72	5,359 226 42.17	418 39 93.30	742 57 76.82	186 6 *	87 7 *	128 6 *	186 16 *
1,500-1,999 grams										
Live births	66,584 1,752 26.31	1,004 85 84.66	12,777 422 33.03	36,566 692 18.92	5,445 141 25.90	7,788 297 38.14	1,074 36 33.52	511 26 50.88	775 30 38.71	644 23 35.71
2,000-2,499 grams										
Live births	210,540 2,256 10.72	680 23 33.82	4,457 134 30.07	72,291 751 10.39	34,004 301 8.85	77,866 759 9.75	10,014 135 13.48	4,366 57 13.06	5,100 71 13.92	1,762 26 14.76
2,500-2,999 grams										
Live births	748,529 3,121 4.17	1,095 23 21.00	4,316 55 12.74	62,478 438 7.01	73,107 340 4.65	443,883 1,614 3.64	89,338 319 3.57	36,407 163 4.48	32,581 138 4.24	5,324 31 5.82
3,000-3,499 grams										
Live births	1,597,746 3,393 2.12	- - -	5,153 41 7.96	42,455 208 4.90	57,302 182 3.18	940,927 1,904 2.02	315,395 582 1.85	131,667 247 1.88	94,208 200 2.12	10,639 28 2.63
See footnotes at end of table	e.									

	Gestation											
Birthweight	Total	<28 Weeks	28-31 Weeks	32-35 Weeks	36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated		
All races¹												
3,500-3,999 grams												
Live births	1,115,475 1,621 1.45	- - -	2,563 20 7.80	17,811 72 4.04	20,366 50 2.46	576,083 839 1.46	281,085 318 1.13	131,336 169 1.29	78,848 136 1.72	7,383 17 *		
4,000-4,499 grams												
Live births	289,269 399 1.38	- - -	- - -	3,577 9 *	4,001 16 *	131,702 194 1.47	80,487 83 1.03	43,655 55 1.26	23,773 36 1.51	2,074 6 *		
4,500-4,999 grams												
Live births	42,143 97 2.30	- - -	- - -	541 13 *	638 4 *	18,097 35 1.93	11,631 19 *	7,059 15 *	3,867 4 *	310 6 *		
5,000 grams or more												
Live births	4,719 19 *	- - -	- - -	107 5 *	87 1 *	2,236 6 *	1,079 2 *	681 3 *	483 - -	46 2 *		
Not stated												
Live births	542 121 223.25	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	542 121 223.25		
White												
Total												
Live births	3,229,497 18,361 5.69	18,549 7,551 407.08	35,083 1,586 45.21	177,559 1,838 10.35	147,051 799 5.43	1,723,239 4,160 2.41	628,396 1,126 1.79	285,363 535 1.87	190,725 454 2.38	23,532 312 13.26		
Less then 2,500 grams												
Live births	231,898 11,978 51.65	17,865 7,536 421.83	26,716 1,492 55.85	83,206 1,313 15.78	27,804 360 12.95	58,663 804 13.71	7,659 143 18.67	3,462 68 19.64	4,210 77 18.29	2,313 185 79.98		
Less then 500 grams												
Live births	4,058 3,489 859.78	3,785 3,297 871.07	145 97 668.97	12 9 *	4 3 *	5 2 *	6 6 *	1 - *	1 1 *	99 73 737.37		
500-749 grams												
Live births	6,866 3,276 477.13	5,843 2,968 507.96	801 215 268.41	78 35 448.72	4 - *	15 5 *	6 2 *	- - -	1 1 *	118 50 423.73		
750-999 grams												
Live births	7,732 1,219 157.66	4,678 907 193.89	2,519 237 94.08	289 42 145.33	19 3 *	92 13 *	22 2 *	9 1 *	8 - *	96 14 *		
1,000-1,249 grams												
Live births	9,222 694 75.25	2,001 245 122.44	5,072 297 58.56	1,468 105 71.53	103 9 *	280 18 *	82 5 *	53 2 *	37 2 *	126 9 *		
See footnotes at end of table	· .											

	Gestation											
Birthweight	Total	<28 Weeks	28-31 Weeks	32-35 Weeks	36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated		
White												
1,250-1,499 grams												
Live births	11,516 535 46.46	541 48 88.72	6,173 252 40.82	3,611 151 41.82	274 29 105.84	497 38 76.46	132 4 *	66 5 *	86 4 *	136 5 *		
1,500-1,999 grams												
Live births Infant deaths Infant mortality rate	45,938 1,176 25.60	615 59 95.93	9,011 293 32.52	25,247 454 17.98	3,742 99 26.46	5,268 198 37.59	713 26 36.47	357 13 *	535 17 *	450 17 *		
2,000-2,499 grams												
Live births Infant deaths Infant mortality rate	146,566 1,590 10.85	402 12 *	2,995 100 33.39	52,501 516 9.83	23,658 218 9.21	52,506 530 10.09	6,698 97 14.48	2,976 47 15.79	3,542 51 14.40	1,288 17 *		
2,500-2,999 grams												
Live births Infant deaths Infant mortality rate	533,841 2,203 4.13	684 15 *	2,784 44 15.80	45,778 317 6.92	54,193 252 4.65	315,198 1,133 3.59	62,204 218 3.50	25,777 113 4.38	23,229 92 3.96	3,994 19 *		
3,000-3,499 grams												
Live births Infant deaths Infant mortality rate	1,241,931 2,462 1.98	- - -	3,632 36 9.91	31,379 134 4.27	44,736 127 2.84	735,145 1,394 1.90	243,363 425 1.75	101,995 172 1.69	73,198 152 2.08	8,483 21 2.48		
3,500-3,999 grams												
Live births Infant deaths Infant mortality rate	930,616 1,250 1.34	- - -	1,951 14 *	13,801 56 4.06	16,482 38 2.31	482,690 650 1.35	234,283 253 1.08	109,412 126 1.15	65,750 101 1.54	6,247 12 *		
4,000-4,499 grams												
Live births Infant deaths Infant mortality rate	250,377 315 1.26	- - -	- - -	2,884 6 *	3,248 16 *	114,103 149 1.31	69,846 70 1.00	37,919 40 1.05	20,559 28 1.36	1,818 5 *		
4,500-4,999 grams												
Live births Infant deaths Infant mortality rate	36,489 74 2.03	- - -	- - -	429 9 *	520 4 *	15,580 25 1.60	10,120 16 *	6,206 12 *	3,359 3 *	275 4 *		
5,000 grams or more												
Live births Infant deaths Infant mortality rate	3,984 16 *	- - -	- - -	82 3 *	68 1 *	1,860 5 *	921 2 *	592 3 *	420 - -	41 2 *		
Not stated												
Live births	361 63 174.52	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	361 63 174.52		
Black												
Total												
Live births	633,153 8,406 13.28	11,531 4,756 412.45	13,910 688 49.46	52,122 677 12.99	36,278 242 6.67	326,451 1,276 3.91	108,304 306 2.83	47,349 162 3.42	34,128 149 4.37	3,080 148 48.05		
See footnotes at end of table												

_	Gestation											
Birthweight	Total	<28 Weeks	28-31 Weeks	32-35 Weeks	36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated		
Black												
Less then 2,500 grams												
Live births	86,461 6,524 75.46	11,185 4,749 424.59	10,998 670 60.92	26,938 501 18.60	9,422 113 11.99	21,578 298 13.81	2,965 53 17.88	1,259 28 22.24	1,514 34 22.46	602 77 127.91		
Less then 500 grams												
Live births	2,864 2,456 857.54	2,724 2,353 863.80	89 61 685.39	8 6 *	- -	2 1 *	4 4 *	5 5 *	- - -	32 26 812.50		
500-749 grams												
Live births	4,341 1,948 448.74	3,820 1,788 468.06	409 120 293.40	34 9 *	1 - *	12 3 *	4 2 *	4 2 *	2 1 *	55 23 418.18		
750-999 grams												
Live births	4,172 586 140.46	2,635 431 163.57	1,337 134 100.22	122 9 *	14 1 *	21 2 *	6 2 *	3 - *	3 - *	31 6 *		
1,000-1,249 grams												
Live births	4,378 279 63.73	1,102 107 97.10	2,386 119 49.87	602 34 56.48	51 2 *	122 6 *	40 4 *	16 1 *	27 1 *	32 4 *		
1,250-1,499 grams												
Live births	4,659 227 48.72	313 36 115.02	2,479 99 39.94	1,430 56 39.16	114 9 *	200 15 *	43 1 *	14 2 *	33 1 *	33 8 *		
1,500-1,999 grams												
Live births	16,632 473 28.44	352 23 65.34	3,083 107 34.71	9,092 197 21.67	1,345 30 22.30	2,006 81 40.38	301 8 *	125 10 *	198 13 *	130 3 *		
2,000-2,499 grams												
Live births	49,415 554 11.21	239 10 *	1,215 29 23.87	15,650 190 12.14	7,897 71 8.99	19,215 189 9.84	2,567 32 12.47	1,092 8 *	1,251 18 *	289 6 *		
2,500-2,999 grams												
Live births	154,649 745 4.82	346 7 *	1,254 9 *	13,022 101 7.76	14,071 75 5.33	91,436 389 4.25	19,165 78 4.07	7,613 41 5.39	7,034 37 5.26	708 8 *		
3,000-3,499 grams												
Live births	241,637 720 2.98	- - -	1,193 5 *	8,539 56 6.56	9,329 45 4.82	138,868 400 2.88	48,049 115 2.39	20,025 55 2.75	14,639 40 2.73	995 4 *		
3,500-3,999 grams												
Live births Infant deaths Infant mortality rate	121,098 291 2.40	- - -	465 4 *	3,022 13 *	2,834 10 *	61,140 154 2.52	30,243 46 1.52	14,289 28 1.96	8,597 30 3.49	508 5 *		
See footnotes at end of table												

01/12/11 Page 5 Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age: United states, 2005 birth cohort data

	Gestation										
Birthweight	Total	<28 Weeks	28-31 Weeks	32-35 Weeks	36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated	
Black											
4,000-4,499 grams											
Live births	25,089 56 2.23	- - -	- - -	507 2 *	531 - -	11,515 30 2.61	6,845 10 *	3,584 6 *	2,003 7 *	104	
4,500-4,999 grams											
Live births	3,623 17 *	- - -	- - -	79 4 *	82 - -	1,669 5 *	943 3 *	527 3 *	304	19 2 *	
5,000 grams or more											
Live births	454 1 *	- - -	- - -	15 - *	9 - *	245 1 *	94 -	52 - -	37 - -	2 - *	
Not stated											
Live births	142 53 373.24	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	142 53 373.24	

^{-/} Quality zero.
*/Figure does not meet standard of reliability or precision; see Technical notes.
1/ Includes races other then white and black.

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2004 birth cohort data

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

Birthweight and race of mother	Live Births	Infant	Total	Early	Late	Post-
	BITCHS		Neonatal	Neonatal	Neonatal	Neonatal
All races¹						
Total (all birthweights)	4,138,577	28,255 6.83	18,763 4.53	14,999 3.62	3,764 0.91	9,492 2.29
Less than 2,500 grams	340,154	19,484 57.28	15,706 46.17	13,190 38.78	2,516 7.40	3,778 11.11
Less than 500 grams	7,274	6,241 857.99	6,094 837.78	5,912 812.76	182 25.02	146 20.07
500-749 grams	11,755	5,494 467.38	4,639 394.64	3,815 324.54	824 70.10	854 72.65
750-999 grams	12,526	1,891 150.97	1,383 110.41	905 72.25	478 38.16	508 40.56
1,000-1,249 grams	14,352	1,037 72.25	748 52.12	501 34.91	247 17.21	288 20.07
1,250-1,499 grams	17,123	814 47.54	550 32.12	392 22.89	158 9.23	264 15.42
1,500-1,999 grams	66,584	1,752 26.31	1,131 16.99	875 13.14	257 3.86	620 9.31
2,000-2,499 grams	210,540	2,256 10.72	1,159 5.50	790 3.75	369 1.75	1,097 5.21
2,500-2,999 grams	748,529	3,121 4.17	1,209 1.62	750 1.00	459 0.61	1,912 2.55
3,000-3,499 grams	1,597,746	3,393 2.12	1,055 0.66	555 0.35	500 0.31	2,338 1.46
3,500-3,999 grams	1,115,475	1,621 1.45	488 0.44	267 0.24	221 0.20	1,132 1.01
4,000-4,499 grams	289,269	399 1.38	130 0.45	76 0.26	53 0.18	269 0.93
4,500-4,999 grams	42,143	97 2.30	45 1.07	33 0.78	11	52 1.23
5,000 grams or more	4,719	19	13	11	2	6
Not statedRate	542	121 223.25	117 215.87	116 214.02	1	4 *

See footnotes at end of table.

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2004 birth cohort 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]

Divibuoisht and vago of mathem	Live		Total	Early	Late	Post-
Birthweight and race of mother	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
White						
Total (all birthweights)	3,229,497	18,361 5.69	12,156 3.76	9,648 2.99	2,508 0.78	6,205 1.92
Less than 2,500 grams	231,898	11,978 51.65	9,828 42.38	8,266 35.64	1,561 6.73	2,151 9.28
Less than 500 grams	4,058	3,489 859.78	3,433 845.98	3,335 821.83	98 24.15	56 13.80
500-749 grams	6,866	3,276 477.13	2,850 415.09	2,380 346.64	470 68.45	426 62.04
750-999 grams	7,732	1,219 157.66	955 123.51	645 83.42	311 40.22	264 34.14
1,000-1,249 grams	9,222	694 75.25	510 55.30	363 39.36	147 15.94	183 19.84
1,250-1,499 grams	11,516	535 46.46	382 33.17	273 23.71	109 9.47	153 13.29
1,500-1,999 grams	45,938	1,176 25.60	821 17.87	657 14.30	164 3.57	355 7.73
2,000-2,499 grams	146,566	1,590 10.85	876 5.98	614 4.19	263 1.79	713 4.86
2,500-2,999 grams	533,841	2,203 4.13	903 1.69	569 1.07	333 0.62	1,300 2.44
3,000-3,499 grams	1,241,931	2,462 1.98	824 0.66	443 0.36	380 0.31	1,639 1.32
3,500-3,999 grams	930,616	1,250 1.34	394 0.42	214 0.23	180 0.19	856 0.92
4,000-4,499 grams	250,377	315 1.26	101 0.40	58 0.23	43 0.17	214 0.85
4,500-4,999 grams	36,489	74 2.03	35 0.96	26 0.71	9	38 1.04
5,000 grams or more	3,984	16 *	11	10	1 *	5 *
Not statedRate	361	63 174.52	61 168.98	61 168.98	-	2 *

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2004 birth cohort data -Cont

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

Birthweight and race of mother	Live Births	Infant	Total Neonatal	Early Neonatal	Late Neonatal	Post- Neonatal
Black						
Total (all birthweights)	633,153	8,406 13.28	5,645 8.92	4,602 7.27	1,043 1.65	2,761 4.36
Less than 2,500 grams	86,461	6,524 75.46	5,071 58.65	4,267 49.35	804 9.30	1,453 16.81
Less than 500 grams	2,864	2,456 857.54	2,372 828.21	2,295 801.33	78 27.23	84 29.33
500-749 grams	4,341	1,948 448.74	1,559 359.13	1,252 288.41	308 70.95	389 89.61
750-999 grams	4,172	586 140.46	362 86.77	220 52.73	141 33.80	224 53.69
1,000-1,249 grams	4,378	279 63.73	189 43.17	109 24.90	80 18.27	90 20.56
1,250-1,499 grams	4,659	227 48.72	132 28.33	97 20.82	35 7.51	95 20.39
1,500-1,999 grams	16,632	473 28.44	237 14.25	160 9.62	78 4.69	236 14.19
2,000-2,499 grams	49,415	554 11.21	219 4.43	134 2.71	85 1.72	335 6.78
2,500-2,999 grams	154,649	745 4.82	242 1.56	140 0.91	103 0.67	503 3.25
3,000-3,499 grams	241,637	720 2.98	175 0.72	83 0.34	92 0.38	545 2.26
3,500-3,999 grams	121,098	291 2.40	75 0.62	40 0.33	34 0.28	216 1.78
4,000-4,499 grams	25,089	56 2.23	22 0.88	15 *	7 *	33 1.32
4,500-4,999 grams	3,623	17 *	8	6 *	2 *	9
5,000 grams or more	454	1	- -	- -	- -	1
Not statedRate	142	53 373.24	52 366.20	51 359.15	1	1

^{-/} Quantity zero.
*/Figure does not meet standard of reliability or precision; see Technical notes.

^{1/} Includes races other then white and black.

[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 races¹						
All birthweights						
All causes	4,138,577	28,255 682.72	18,763 453.37	14,999 362.42		
Congenital malformations (Q00-Q99)		5,544 133.96	3,900 94.24	2,993 72.32		
Short gestation and low birthweight nec (P07)		4,693 113.40	4,579 110.64	4,478 108.20		
Sudden infant death syndrome (R95)		2,200 53.16	196 4.74	37 0.89		
Maternal complications of pregnancy (P01)		1,763 42.60	1,745 42.16	1,717 41.49		
Complications of placenta, cord, membranes (P02)		1,098 26.53	1,076 26.00	1,041 25.15		
Respiratory distress of newborn (P22)		861 20.80	841 20.32	696 16.82		
Accidents (unintentional injures) (V01-X59)		1,083 26.17	123 2.97	27 0.65		
Bacterial sepsis of newborn (P36)		842 20.35	803 19.40	329 7.95		
Deseases of the circulatory system (IOO-I99)		525 12.69	120 2.90	56 1.35		
Intrauterine hypoxia, birth asphyxia (P20-P21)		527 12.73	496 11.98	374 9.04		
All other causes		9,119 220.34	4,884 118.01	3,250 78.53		
Less then 2,500 grams						
All causes	340,154	19,484 5,727.99	15,706 4,617.32	13,190 3,877.66		3,778 51,110.67
Congenital malformations (Q00-Q99)		3,322 976.62	2,610 767.30	2,184 642.06		
Short gestation and low birthweight nec (PO7)		4,599 1,352.03	4,486 1,318.81	4,385 1,289.12		
Sudden infant death syndrome (R95)		460 135.23	31 9.11	9		
Maternal complications of pregnancy (P01)		1,697 498.89	1,681 494.19	1,654 486.25		
Complications of placenta, cord, membranes (P02)		1,004 295.16	986 289.87	961 282.52		
Respiratory distress of newborn (P22)		845 248.42	826 242.83	685 201.38		
Accidents (unintentional injures) (V01-X59)		193 56.74	27 7.94	9		
Bacterial sepsis of newborn (P36)		754 221.66	717 210.79	282 82.90		
Deseases of the circulatory system (IOO-I99)		281 82.61	71 20.87	35 10.29	36	5 210
See footnotes at end of table.						

[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]

## Births Infant Neonatal	ost-
Name	onatal
All other causes	
1,779.78 1,176.82 815.81 360.72	9
All causes 3,797,881 8,650 2,940 1,693 1,247 227.76 77.41 44.58 32.83 20.00 227.76 77.41 44.58 32.83 20.00 227.76 77.41 44.58 32.83 20.00 227.76 77.41 44.58 32.83 20.00 227.76 77.41 44.58 32.83 20.00 227.76 77.41 44.58 32.83 20.00 227.76 77.41 44.58 32.83 20.00 227.76 77.41 44.58 32.83 20.00 227.00 227.76 77.41 44.58 32.83 20.00 227.00 227.76 77.41 44.58 32.83 20.00 227.00 20.0	2,051 602.96
Congenital malformations (Q00-Q99)	
Short gestation and low birthweight nec (PO7) 42	5,710 150.35
Sudden infant death syndrome (R95) 1,738	933 24.57
Maternal complications of pregnancy (PO1)	1 *
1.16 1.11 1.08 *	1,574 41.44
Respiratory distress of newborn (P22)	2
Accidents (unintentional injures) (V01-X59) 888 96 18 78 23.38 2.53 * 2.05 Bacterial sepsis of newborn (P36) 88 86 47 39 2.32 2.26 1.24 1.03 Deseases of the circulatory system (I00-I99) 244 49 21 27 6.42 1.29 0.55 0.71 Intrauterine hypoxia, birth asphyxia (P20-P21) 251 230 163 66 6.61 6.06 4.29 1.74 All other causes 3,038 855 449 406 79.99 22.51 11.82 10.69 Not stated birthweight	5 *
Bacterial sepsis of newborn (P36)	1 *
Deseases of the circulatory system (IOO-I99) 244 49 21 27 6.42 1.29 0.55 0.71 Intrauterine hypoxia, birth asphyxia (P2O-P21) 251 230 163 66 6.61 6.06 4.29 1.74 All other causes 3,038 855 449 406 79.99 22.51 11.82 10.69 Not stated birthweight	792 20.85
1.29 0.55 0.71	2
All other causes	196 5.16
79.99 22.51 11.82 10.69 Not stated birthweight	21 0.55
	2,183 57.48
All causes	
22,324.72 21,586.72 21,402.21 *	4 *
Congenital malformations (Q00-Q99)	-
Short gestation and low birthweight nec (PO7)	-
Sudden infant death syndrome (R95) 2 - - - - * - - - - -	2 *
Maternal complications of pregnancy (P01)	-
Complications of placenta, cord, membranes (PO2) 10 10	-
Respiratory distress of newborn (P22)	-
Accidents (unintentional injures) (V01-X59)	1

[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 races¹						
Bacterial sepsis of newborn (P36)		-	-	-		-
Deseases of the circulatory system (IOO-I99)		-	-	-		-
Intrauterine hypoxia, birth asphyxia (P20-P21)		-	-	-		-
All other causes		27 4,981.55	26 4,797.05	25 4,612.55	;	1 1
White						
All birthweights						
All causes3	,229,497	18,361 568.54	12,156 376.41	9,648 298.75		
Congenital malformations (Q00-Q99)		4,168 129.06	2,974 92.09	2,282 70.66		
Short gestation and low birthweight nec (PO7)		2,606 80.69	2,555 79.11	2,493 77.19	1.9	
Sudden infant death syndrome (R95)		1,500 46.45	140 4.34	26 0.81	11: 3.5	
Maternal complications of pregnancy (P01)		1,034 32.02	1,023 31.68	1,004 31.09		9 11
Complications of placenta, cord, membranes (P02)		747 23.13	736 22.79	709 21.95	0.8	
Respiratory distress of newborn (P22)		530 16.41	520 16.10	432 13.38		
Accidents (unintentional injures) (V01-X59)		731 22.64	80 2.48	20 0.62	1.8	
Bacterial sepsis of newborn (P36)		523 16.19	502 15.54	222 6.87		
Deseases of the circulatory system (IOO-I99)		321 9.94	79 2.45	39 1.21	1.2	
Intrauterine hypoxia, birth asphyxia (P20-P21)		385 11.92	366 11.33	282 8.73		
All other causes		5,816 180.09	3,181 98.50	2,138 66.20	1,04	
Less then 2,500 grams						
All causes	231,898	11,978 5,165.20	9,828 4,238.07	8,266 3,564.50	1,56 673.1	
Congenital malformations (Q00-Q99)		2,437 1,050.89	1,939 836.14	1,638 706.35		
Short gestation and low birthweight nec (P07)		2,550 1,099.62	2,500 1,078.06	2,439 1,051.76	6: 26.7	
Sudden infant death syndrome (R95)		270 116.43	19 *	6 *	1	3 250 * 107.81
Maternal complications of pregnancy (P01)		995 429.07	985 424.76	967 416.99	1	3 10 * *
Con footpotog at and of table						

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

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
White						
Complications of placenta, cord, membranes (P02)		677 291.94	668 288.06	648 279.43		
Respiratory distress of newborn (P22)		520 224.24	510 219.92	425 183.27		
Accidents (unintentional injures) (V01-X59)		105 45.28	17 *	6		1 88 * 37.95
Bacterial sepsis of newborn (P36)		456 196.64	436 188.01	186 80.21		
Deseases of the circulatory system (IOO-I99)		155 66.84	41 17.68	22 9.49		
Intrauterine hypoxia, birth asphyxia (P20-P21)		190 81.93	184 79.35	150 64.68		
All other causes		3,624 1,562.76	2,528 1,090.13	1,780 767.58		
2,500 grams or more						
All causes	997,238	6,320 210.86	2,268 75.67	1,321 44.07		
Congenital malformations (Q00-Q99)		1,728 57.65	1,032 34.43	641 21.39		
Short gestation and low birthweight nec (P07)		26 0.87	25 0.83	25 0.83		- <u>1</u>
Sudden infant death syndrome (R95)		1,229 41.00	121 4.04	20 0.67		
Maternal complications of pregnancy (P01)		30 1.00	29 0.97	28 0.93		1 1
Complications of placenta, cord, membranes (P02)		63 2.10	61 2.04	54 1.80		7 2
Respiratory distress of newborn (P22)		9	8 *	6		2 1
Accidents (unintentional injures) (V01-X59)		625 20.85	63 2.10	14		
Bacterial sepsis of newborn (P36)		67 2.24	66 2.20	37 1.23		
Deseases of the circulatory system (IOO-I99)		167 5.57	39 1.30	17 *		
Intrauterine hypoxia, birth asphyxia (P20-P21)		196 6.54	182 6.07	132 4.40		
All other causes		2,180 72.73	641 21.39	346 11.54		
Not stated birthweight						
All causes	361		61 16,897.51	61 16,897.51		- 2 - *
Congenital malformations (Q00-Q99)		3 *	3	3 *	-	-
Short gestation and low birthweight nec (P07)		29 8,033.24	29 8,033.24	29 8,033.24		-
Con footnoted at and of table						

[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 N	Neonatal
White						
Sudden infant death syndrome (R95)		1	-	-	-	1
Maternal complications of pregnancy (P01)		8 *	8	8 *	-	-
Complications of placenta, cord, membranes (PO2)		7 *	7 *	7 *	-	-
Respiratory distress of newborn (P22)		1	1	1 *	-	-
Accidents (unintentional injures) (V01-X59)		1	-	-	-	1 *
Bacterial sepsis of newborn (P36)		-		-	-	-
Deseases of the circulatory system (IOO-I99)		-		-	-	-
Intrauterine hypoxia, birth asphyxia (P20-P21)		-	-	-	-	-
All other causes		12	12	12	-	-
Black						
All birthweights						
All causes	633,153	8,406 1,327.64	5,645 891.57	4,602 726.84	1,043 164.73	2,761 436.07
Congenital malformations (Q00-Q99)		1,051 165.99	708 111.82	540 85.29	168 26.53	343 54.17
Short gestation and low birthweight nec (P07)		1,865 294.56	1,809 285.71	1,773 280.03	35 5.53	56 8.84
Sudden infant death syndrome (R95)		588 92.87	47 7.42	9	38 6.00	541 85.45
Maternal complications of pregnancy (P01)		654 103.29	647 102.19	638 100.77	9	7 *
Complications of placenta, cord, membranes (P02)		307 48.49	296 46.75	290 45.80	6 *	11
Respiratory distress of newborn (P22)		291 45.96	282 44.54	233 36.80	48 7.58	9
Accidents (unintentional injures) (V01-X59)		294 46.43	39 6.16	7 *	32 5.05	254 40.12
Bacterial sepsis of newborn (P36)		268 42.33	249 39.33	89 14.06	160 25.27	18
Deseases of the circulatory system (IOO-I99)		168 26.53	30 4.74	13	17 *	138 21.80
Intrauterine hypoxia, birth asphyxia (P20-P21)		114 18.01	103 16.27	75 11.85	28 4.42	11
All other causes		2,806 443.18	1,434 226.49	934 147.52		1,372 216.69
Less then 2,500 grams						
All causes	86,461	6,524 7,545.60	5,071 5,865.07	4,267 4,935.17		1,453 1,680.53

[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)		691 799.20	517 597.96	417 482.30	100 115.66	
Short gestation and low birthweight nec (P07)	2	1,830 ,116.56	1,775 2,052.95	1,739 2,011.31	35 40.48	
Sudden infant death syndrome (R95)		172 198.93	10	3 *		7 162 187.37
Maternal complications of pregnancy (P01)		626 724.03	620 717.09	611 706.68	Š	
Complications of placenta, cord, membranes (P02)		289 334.25	281 325.00	276 319.22	<u>.</u>	5 8
Respiratory distress of newborn (P22)		285 329.63	276 319.22	229 264.86	46 53.20	
Accidents (unintentional injures) (V01-X59)		83 96.00	10	3 *	5	
Bacterial sepsis of newborn (P36)		252 291.46	234 270.64	81 93.68	153 176.96	
Deseases of the circulatory system (IOO-I99)		106 122.60	23 26.60	9	14	
Intrauterine hypoxia, birth asphyxia (P20-P21)		69 79.80	66 76.33	50 57.83	16	
All other causes	2	2,121 ,453.13	1,260 1,457.30	849 981.95	411 475.36	
2,500 grams or more						
All causes	546,550	1,830 334.83	522 95.51	284 51.96	238 43.55	
Congenital malformations (Q00-Q99)		359 65.68	190 34.76	123 22.50	68 12.44	
Short gestation and low birthweight nec (P07)		12	12	12	-	
Sudden infant death syndrome (R95)		417 76.30	37 6.77	6 *	31 5.67	
Maternal complications of pregnancy (P01)		13	12	12	-	- 1
Complications of placenta, cord, membranes (P02)		16 *	13	12]	
Respiratory distress of newborn (P22)		5 *	5 *	3	2	2 -
Accidents (unintentional injures) (V01-X59)		211 38.61	29 5.31	4 *	25 4.55	
Bacterial sepsis of newborn (P36)		16 *	15	8 *	-	
Deseases of the circulatory system (IOO-I99)		62 11.34	7	4 *		3 55 10.06
Intrauterine hypoxia, birth asphyxia (P20-P21)		45 8.23	37 6.77	25 4.57	12	2 8
All other causes		672 122.95	163 29.82	75 13.72	89 16.28	
Con fortune of and of table						

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

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-	
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal	
Black							
Not stated birthweight							
All causes	142		52 36,619.72	51 35,915.49		1 *	1
Congenital malformations (Q00-Q99)		1 *	1 *	1 *		- -	_
Short gestation and low birthweight nec (P07)		22 15,492.96	22 15,492.96			- -	-
Sudden infant death syndrome (R95)		-		-		- -	-
Maternal complications of pregnancy (P01)		14	14	14		-	-
Complications of placenta, cord, membranes (PO2)		2 *	2 *	2 *		- -	-
Respiratory distress of newborn (P22)		1	1	1 *		- -	-
Accidents (unintentional injures) (V01-X59)		-		-		- -	-
Bacterial sepsis of newborn (P36)		-	-	-		-	- -
Deseases of the circulatory system (IOO-I99)		-		-		- -	-
Intrauterine hypoxia, birth asphyxia (P20-P21)		-		-		- -	-
All other causes		12	11	10		1	1

^{-/} Quality zero.
*/Figure does not meet standard of reliability or precision; see Technical notes.

^{1/} Includes races other then white and black.

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

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
United States /2					
Total	360	272	241	31	88
White	219	171	154	17	48
	124	88		13	36
Black	124	88	75	13	36
Alabama					
Total	-	-	-	-	-
White	-	_	_	_	_
Black	-	-	-	-	-
Alaska					
Total	2	1	1	_	1
White	1	1	1	_	_
Black	_	-	_	_	_
rizona Total	14	9	3	6	5
	11		3		3
White		8		5	
Black	1	-	-	-	1
Arkansas					
Total	-	_	_	_	_
White	-	-	=	_	_
Black	-	-	-	-	-
California					
Total	88	75	71	4	13
White	64	53	49	4	11
	15	14	14	4 -	1
Black	15	14	14	-	Τ.
Colorado					
Total	2	_	-	_	2
White	1	-	-	_	1
Black	1	-	-	-	1
Connecticut					
Total	_	_	_	_	_
White	_		=	_	=
Black	_		-		
Delaware Total	_	_	_	_	_
White	_	_	_	_	=
Black	_	_	-	_	<u>-</u>
Dist of Columbia					
Total	-	_	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Florida					
Total	5	1	_	1	4
White	4	_	_	_	4
Black	1	1	-	1	-
loorgia					
Georgia	_		_	_	_
Total		-			
White	-	-	-	-	-
Black	-	-	-	-	-
[awaii					
Total	1	-	-	-	1
White	1	_	_	_	_ 1
Black	_	_	_	_	_
2140.1					

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

tate and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
daho					
Total	1	_	_	-	1
White	-	-	-	-	_
Black	1	-	-	-	1
llinois					
Total	20	16	16	_	4
White	9	9	9	_	=
Black	11	7	7	-	4
ndiana					
Total	6	3	1	2	3
White	3	1	1	_	2
Black	3	2	-	2	1
owa					
owa Total	_	_	_	_	_
White	_	_	_	_	<u>-</u>
		-			
Black	-	-	-	-	-
ansas					
Total	-	_	-	_	-
White	-	-	-	-	-
Black	-	-	-	-	-
entucky					
Total	6	2	2	-	4
White	3	2	2	-	1
Black	3	-	-	-	3
ouisiana					
Total	33	21	16	5	12
White	4	4	3	1	_
Black	28	17	13	4	11
aine					
Total	_	_	_	_	_
White	_	_	_	_	
Black	_	_	_	_	
aryland Total	_	_	_	_	_
White	_	_	_	_	
Black	_	-	-	-	-
assachusetts Total	_	_	_	_	_
White	_	_	_	_	_
Black	_	-	_	-	-
ichigan					
Total			_		_
	_	-	-	_	
White		-		_	
Black	-	-	-	-	-
innesota					
Total	1		-	-	1
White	-	_	_	_	-
Black	1	-	-	-	1
ississippi					
					_
Total	7	4	_	4	3
	7 4	4 1	-	4 1	3 3

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

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Missouri					
Total	1	-	-	-	1
White	1	_	_	_	1
Black	-	-	-	-	-
Montana					
Total	-	_	-	_	-
White	-	_	-	-	_
Black	-	-	-	-	-
Nebraska					
Total	-	-	-	_	_
White	-	-	-	_	_
Black	-	-	-	-	-
Nevada					
Total	6	3	2	1	3
White	6	3	2	1	3
Black	-	-	-	-	-
New Hampshire					
Total	-	_	_	-	-
White	-	-	_	-	-
Black	-	-	-	-	-
New Jersey					
Total	4	4	4	_	_
White	4	4	4	_	_
Black	-	-	-	-	-
New Mexico					
Total	3	2	1	1	1
White	3	2	1	1	1
Black	-	-	-	-	-
New York					
Total	6	5	5	-	1
White	5	5	5	-	-
Black	1	-	-	-	1
New York City					
Total	3	3	3	-	-
White	1	1	1	-	-
Black	2	2	2	-	-
North Carolina					
Total	3	1	1	-	2
White	2	1	1	-	1
Black	1	-	-	-	1
North Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Ohio	22	22	21	2	ć
Total	29	23	21	2	6
White	15	13	11	2	2
Black	14	10	10	-	4
	_	_	_		_
Total	5	2	2	-	3
Dklahoma Total White Black	5 3 1	2 1 -	2 1 -	- -	3 2 1

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

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Oregon					
Total	6	3	2	1	3
White	5	2	1	1	3
Black	-	-	-	-	-
Pennsylvania					
Total	5	5	5	_	-
White	4	4	4	_	-
Black	1	1	1	-	-
Rhode Island					
Total	_	_	_	_	_
White	_	_	_	_	_
Black	-	-	-	-	-
South Carolina					
Total	2	_	_	_	2
White	_	_		_	<u> </u>
White Black	2	-		_	2
DIGCV	2	-	-	_	2
South Dakota					
Total	-	-	-	_	-
White	-	-	-	_	-
Black	-	-	-	-	-
Tennessee					
Total	1	_	-	-	1
White	1	_	-	-	1
Black	-	-	-	-	-
Texas					
Total	99	89	85	4	10
White	63	56	55	1	7
Black	34	31	28	3	3
Utah					
Total	_	_	_	_	_
White	_	_	_	_	_
Black	_	_	_	_	_
Brack					
Vermont					
Total	-	-	-	-	-
White	-	-	-	_	-
Black	-	-	-	-	-
Virginia					
Total	-	_	_	_	-
White	-	_	_	_	-
Black	-	-	-	-	-
Washington					
Total	1	_	_	_	1
White	1	_	_	_	1
Black	=	-	-	-	Ξ
West Virginia					
Total	_	_	_	_	_
White	_	_		_	_
Black	_	_	_	-	_
Wisconsin					
Total	_	_	_	_	-
White	-	-	_	-	-
Black	-	-	-	-	-

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

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

^{1/} Totals for geographic areas include races other than white and black.
2/ Excludes data for foreign residents, Puerto Rico, Virgin Islands and Guam.