

**Public Use
Data File
Documentation**

2007 Cohort Linked Birth/Infant Death Data Set

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National Center for Health Statistics
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2007 Cohort Linked Birth/Infant Death Data Set

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[Infant Mortality Statistics from the 2007 Period Linked Birth/Infant Death Data Set](#)

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

[Deaths: Final Data for 2007](#) (see Technical Notes)

Introduction

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

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

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 2007 birth cohort linked file includes several data files. The first file includes linked birth and death certificate data for all US infants born in 2007 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 2007 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. In addition, NCHS accepted a small number of late-filed birth records needed to link to infant deaths. This reduced the number of unlinked records and slightly increased the number of births in the denominator file.

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 birth data based on both the 1989 Revision of the U.S. Standard Certificate of Live Birth (unrevised) and the 2003 revision of the U.S. Standard Certificate of Live Birth (revised). The 2003 revision is described in detail elsewhere. (See the 2003 Revision website at: http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm).

Where comparable, revised data are combined with data from the remaining reporting areas. (Revised data are denoted by “R;” unrevised data are denoted by “U” in the “Rev” column of the documentation.) Where data for the 1989 and 2003 certificate revisions are not comparable (e.g., educational attainment of the mother), unrevised and revised data are given in separate fields in the data file.

Most of the variables from the death certificate in this file are comparable despite changes to item wording and format in the 2003 revision. See more about the 2003 Revision at: http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm .

Incomplete National Reporting - Using Reporting Flags

As a result of the delayed, phased transition to the 2003 U.S. Standard Certificate of Live Birth, the 2007 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) (see the [2007 Natality User Guide](#)). Although many data items are comparable across certificate revisions and are available for the entire United States, many items have more limited reporting areas. 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 areas that do not report items 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 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.

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

An example of SAS code that may be used to incorporate the correct use of reporting flags and the translation of blanks is shown below. This example is for the revised prenatal care item. Prenatal care data based on the revised certificate are not considered comparable with data based on the unrevised certificate. Accordingly, use of the reporting flag for this item will produce 2007 cohort data for the month prenatal care began for the states that implemented the revised birth certificate by January 1st 2007.

Sample SAS program

```
01 DATA work;
02     INFILE 'C:\VS07LKBC.USNUMPUB' LRECL=1259;
03     INPUT
04         restatus 138
05         precare 245-246
06         f_mpcb 668;
07
08     /*Exclude foreign residents*/
09     IF restatus NE 4;
10     /*Select reporting area*/
11     IF f_mpcb=1;
12     /*Convert blanks to unknown*/
13     IF precare=. THEN precare=99;
14
15 PROC FREQ;
16     TABLE precare;
17 RUN;
```

In this example, “restatus” is used to exclude births to foreign residents (this is standard practice for all NCHS tabulations). Also in this example, blanks are represented by numeric values SAS code = (.). However, for some items in the file, e.g., obstetric procedures, blanks are represented by character values for which the SAS code is empty single quotes (‘ ’).

Alternatives to the use of reporting flags - The use of reporting flags provides a relatively quick, accurate way to select records for all areas reporting comparable data for a given item in a particular year. However, should a limited reporting area be needed, specific state(s) of residence may also be selected, or unselected. This approach may be useful, for example, in trend analysis where reporting areas have changed over time. This approach may also be used to limit the reporting area to only states reporting multiple or single race data (see multiple race section below).

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

```
01 DATA work;
02     INFILE 'C:\VS07LKBC.USNUMPUB ' LRECL=1259;
03     INPUT
04         restatus 138
05         xmrstate $ 107-108
```

```

06           precare 245-246;
07
08       /*Exclude foreign residents*/
09       IF restatus NE 4;
10       /*Select reporting area*/
11       IF xmrstate in ('ID','KY','NY','PA','SC','TN','WA');
12       /*Convert blanks to unknown*/
13       IF precare=. THEN precare=99;
14
15   PROC FREQ;
16       TABLE precare;
17   RUN;

```

Single, Multiple, and Bridged Race

In 1997, the Office of Management and Budget (OMB) issued revised standards requiring Federal collection programs to allow respondents to select *one or more race categories*. In 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 2007](#) and [Deaths: Final Data for 2007](#).

Weighting

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

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

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

Birthweight

Beginning with the 1995 linked file, an imputation for not-stated birthweight was added to the data set, to reduce potential bias in the computation of birthweight-specific infant mortality rates. Basically, if birthweight is not stated and the period of gestation is known, birthweight is assigned the value from the previous record with the same period of gestation, race, sex, and plurality. Imputed values are flagged. The addition of this imputation has reduced the percent of not-stated responses for birthweight from 3.11 to

0.37 in the numerator file, and from 0.11 to 0.01 in the denominator file, thus greatly reducing the potential for underestimation when computing birthweight-specific infant mortality rates.

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.

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

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

To initiate processing, NCHS obtained matching birth certificate numbers from states for all infant deaths that occurred in their jurisdiction. We used this information to extract final, edited mortality and natality data from the NCHS natality and mortality statistical files. Individual birth and death records were selected from their respective files and linked into a single statistical record, thereby establishing a national linked record file.

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

Characteristics of Unlinked File

For the 2007 cohort linked file 1.6% of all infant death records could not be linked to their corresponding birth certificates. Unlinked records are included in a separate data file in this data set. The unlinked record file uses the same record layout as the numerator file of

linked birth and infant death records. However, except as noted below, locations reserved for information from the matching birth certificate are blank since no matching birth certificate could be found for these records. The sex field contains the sex of infant as reported on the death certificate, rather than the sex of infant from the birth certificate, which is not available. The race field contains the race of the decedent as reported on the death certificate rather than the race of mother as reported on the birth certificate as is the case with the linked record file. The race of mother on the birth certificate is generally considered to be more accurate than the race information from the death certificate (see section on Race and Hispanic origin in [Deaths: Final Data for 2007](#)). Also, date of birth as reported on the death certificate is used to generate age at death. This information is used in place of date of birth from the birth certificate, which is not available.

Documentation table 6 shows counts of unlinked records by race and age at death for each state of residence. The user is cautioned in using table 6 that the race and residence items are based on information reported on the death certificate, whereas tables 1-5 present data from the linked file in which the race and residence items are based on information reported on the birth certificate.

Percent of Records Linked

The 2007 cohort linked file for the 50 States and D.C. includes 28,756 linked infant death records and 457 unlinked infant death records. The linked file is weighted to the sum of linked plus unlinked records, thus the total number of weighted infant deaths by place of occurrence is 29,213.

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 (95.9), Louisiana (93.8), Nevada (96.4) and Texas (93.7). When a high percentage of deaths remain unlinked, unweighted infant mortality rates computed for these states are underestimated. It is for this reason that weights were added to the file to correct for biases in the data due to poor data linkage for particular states.

Table 1. Percent of infant deaths linked by state of occurrence of death: United States, 2007 cohort linked file

United States	98.4	Nebraska	100.0
Alabama	100.0	Nevada	96.4
Alaska	97.0	New Hampshire	100.0
Arizona	97.5	New Jersey	99.3
Arkansas	100.0	New Mexico	98.2
California	95.9	New York State	98.2
Colorado	100.0	New York City	99.1
Connecticut	100.0	North Carolina	99.7
Delaware	100.0	North Dakota	100.0
District of Columbia	99.6	Ohio	98.3
Florida	99.9	Oklahoma	99.3

Georgia	99.3	Oregon	99.7
Hawaii	100.0	Pennsylvania	99.6
Idaho	100.0	Rhode Island	100.0
Illinois	98.6	South Carolina	100.0
Indiana	99.5	South Dakota	100.0
Iowa	100.0	Tennessee	100.0
Kansas	100.0	Texas	93.7
Kentucky	99.4	Utah	99.4
Louisiana	93.8	Vermont	100.0
Maine	100.0	Virginia	99.8
Maryland	99.8	Washington	100.0
Massachusetts	99.3	West Virginia	100.0
Michigan	99.7	Wisconsin	99.8
Minnesota	100.0	Wyoming	100.0
Mississippi	99.8	Puerto Rico	99.5
Missouri	99.6	Virgin Islands	100.0
Montana	100.0	Guam	97.1

Confidentiality

To minimize the risk of disclosure of individual or institutional information NCHS public-use data files do not contain the actual day of the birth or the dates of birth of the mother or father. Also, for public-use files from 2005 forward, no U.S. geographic detail is identified.

Resources

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 variables. In particular, there are a number of details about multiple cause-of-death coding which, if not understood and analyzed properly, may result in faulty analysis of the data. Volumes 1, 2 and 3 of the ICD-10 may be purchased from the World Health Organization (WHO) Publication Center USA, see <http://www.cdc.gov/nchs/icd/icd10.htm>. Many of the instruction manuals listed below are available electronically on the NCHS website. The User Guide for natality and the mortality final report for 2007 linked in this document also provide information on the source of data, coding procedures, quality of the data, etc.

- A. National Center for Health Statistics. Vital statistics, Instructions for Classifying the Underlying Cause-of-Death, 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.
- E. National Center for Health Statistics. Specifications for U.S. Standard Certificate of Death – 2003 Revision.
- F. National Center for Health Statistics. Vital statistics, Computer Edits for Natality Data, Effective 1993. NCHS Instruction Manual Part 12. Hyattsville, Maryland: Public Health Service.
- G. National Center for Health Statistics. Vital statistics, Computer Edits for Mortality Data, Effective 2007. NCHS Instruction Manual Part 11. Hyattsville, Maryland: Public Health Service.

Instruction manuals are available at:

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

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

Underlying Cause of Death Data

Mortality statistics by cause of death are compiled from entries on the medical certification portion of the death certificate. Causes of death include “all those diseases, morbid conditions or injuries which either resulted in or contributed to death and the circumstances of the accident or violence which produced these injuries”. The medical certification of death is divided into two sections. In Part I, the physician is asked to provide the causal chain of morbid conditions that led to death, beginning with the condition most proximate to death on line (a) and working backwards to the initiating condition. Part I of the medical certification is designed to facilitate the selection of the underlying cause of death when two or more causes are recorded on the certificate. The underlying cause of death is defined by the WHO in the ICD-10 as “(a) the disease or injury which initiated the chain of morbid events leading directly to death, or (b) the circumstances of the accident or violence that produced the fatal injury” and is generally considered the most useful cause from a public health standpoint. Part II of the cause-of-death section of the death certificate solicits other conditions that the certifier believed contributed to death, but were not in the causal chain. While some details of the death certificate vary by state, all states use the same general format for medical certification outlined in the U.S. Standard Certificate. The U.S. Standard Certificate, in turn, closely follows the format recommended by the WHO.

For a given death, the underlying cause is selected from the condition or conditions recorded by the certifier in the cause-of-death section of the death certificate. NCHS is bound by international agreement to make the selection of the underlying cause through the use of the ICD-10 classification structure, and the selection and modification rules contained in this revision of the ICD. Additional information on the underlying cause of death can be found at <http://www.cdc.gov/nchs/data/dvs/mort99doc.pdf> .

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

Multiple Cause of Death Data

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

Record axis is designed for the generation of person-based multiple cause statistics. Person-based analysis requires that each condition be coded within the context of every other condition on the same death certificate and modified or linked to such conditions as provided by ICD-10. By definition, the entity data cannot meet this requirement since the linkage provisions modify the character and placement of the information originally recorded by the certifier. Essentially, the axis of the classification has been converted from an entity basis to a record (or person) basis. The record axis codes are assigned in terms of the set of codes that best describe the overall medical certification portion of the death certificate. Additional information on multiple cause data processing can be found at <http://www.cdc.gov/nchs/data/dvs/mort99doc.pdf> .

Entity Axis Codes

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

1. *Format.* Each entity-axis code is displayed as an overall seven byte code with subcomponents as follows:

1. Line indicator: The first byte represents the line of the death certificate on which the code appears. Six lines (1-6) are allowable with the fourth and fifth denoting one or two written in “due to”s beyond the three lines provided in Part I of the U.S. standard death certificate. Line “6” represents Part II of the death certificate.
2. Position indicator: The next byte indicates the position of the code on the line, i.e., it is the first (1), second (2), third (3) eighth (8) code on the line.
3. Cause category: The next four bytes represent the ICD-10 cause code.
4. The last byte is blank.

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

In writing out these codes, they are ordered as follows: line 1 first code, line 1 second code, etc. ----- line 2 first code, line 2 second code, etc. ----- line 3 ---- line 4 ----- line 5 ----- line 6. Any space remaining in the field is left blank. The specifics of locations are contained in the record layout given later in this document.

2. Edit. The original conditions are edited to remove invalid codes, reverify the coding of certain rare causes of death, and assure age/cause and sex/cause compatibility. Detailed information relating to the edit criteria and the sets of cause codes which are valid to underlying cause coding and multiple cause coding are provided in NCHS Instruction Manual Part 11.

3. Entity Axis Applications. The entity axis multiple cause data file is appropriate for analyses that require that each condition be coded as a stand alone entity without linkage to other conditions and/or require information on the placement of such conditions on the death certificate. Within this framework, the entity data are appropriate to examine relationships among conditions and the validity of traditional assumptions in underlying cause selection. Additionally, the entity data provide in certain categories a more detailed code assignment that could be excluded in creating record axis data. Where such detail is needed for a study, the user should use entity data. Finally, the researcher may not wish to be bound by the assumptions used in the axis translation process.

The main limitation of entity axis data is that it does not necessarily reflect the best code for a condition when considered within the context of the medical certification as a whole. As a result, certain entity codes can be misleading or even contradict other codes in the record. For example, category K80.2 is titled “Calculus of gallbladder without cholecystitis.” Within the framework of entity codes this is interpreted to mean that the

codable entity itself contained no mention of cholecystitis rather than that cholecystitis was not mentioned anywhere on the record. Tabulation of records with a "K80.2" as a count of persons having Calculus of gallbladder without cholecystitis would therefore be erroneous. This illustrates the fact that under entity coding the ICD-10 titles cannot be taken literally. The user should study the rules for entity coding as they relate to his/her research prior to use of entity data. The user is further cautioned that the inclusion notes in ICD-10 that relate to modifying and combining categories are seldom applicable to entity coding (except where provided in NCHS Instruction Manual Part 2b).

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

Record Axis Codes

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

1. Format. Each record (or person) axis code is displayed in five bytes. Location information is not relevant. The Code consists of the following components:

1. Cause category: The first four bytes represent the ICD-10 cause code.
2. The last byte is blank.

Again, a maximum of 20 codes are captured on a record for multiple cause purposes. The codes are written in a 100-byte field in ascending code number (5 bytes) order with any unused bytes left blank.

2. Edit. The record axis codes are edited for rare causes and age/cause and sex/cause compatibility. Likewise, individual code validity is checked. The valid code set for record axis coding is the same as that for entity coding.

3. Record Axis Applications. The record axis multiple cause data are the basis for NCHS core multiple cause tabulations. Location of codes is not relevant to this data, and conditions have been linked into the most meaningful categories for the certification. The

most immediate consequence for the user is that the codes on the record already represent mention of a disease assignable to that particular ICD-10 category. This is in contrast to the entity code which is assigned each time such a disease is reported on different lines of the certification. Secondly, the linkage implies that within the constraints of ICD-10 the most meaningful code has been assigned. The translation process creates for the user a data file that is edited for contradictions, duplicate codes, and imprecisions. In contrast to entity axis data, record axis data are classified in a manner comparable to underlying cause of death classification thereby facilitating joint analysis of these variables. A potential disadvantage of record axis data is that some detail is sacrificed in a number of the linkages.

The user can take the record axis codes as literally representing the information conveyed in ICD-10 category titles. While knowledge of the rules for combining and linking and coding conditions is useful, it is not a prerequisite to meaningful analysis of the data as long as one is willing to accept the assumptions of the axis translation process. The user is cautioned, however, that due to special rules in mortality coding, not all linkage notes in ICD-10 are used. (NCHS Instruction Manual Part 2f).

The user should proceed with caution in using record axis data to count conditions as opposed to people with conditions, since linkages have been invoked and duplicate codes have been eliminated. As with entity data, person-based tabulations that combine individual cause categories must take into account the possible interaction of up to 20 codes on a single certificate.

Additional Information

In using the NCHS multiple cause data files, the user is urged to review the information in this document and its references. The instructional material does change from year to year and ICD revision to ICD revision. The user is cautioned that coding of specific ICD-10 categories should be checked in the appropriate instruction manual. What may appear on the surface to be the correct code by ICD-10 may in fact not be correct as given in the instruction manuals.

If on the surface it is not obvious whether entity axis or record axis data should be employed in a given application, detailed examination of NCHS Instruction Manual Part 2f and its attachments will probably provide the necessary information to make a decision. It allows the user to determine the extent of the trade-offs between the two sets of data in terms of specific categories and the assumption of axis translation. In certain situations, a combination of entity and record axis data may be the more appropriate alternative.

2007 Cohort Linked Birth/Infant Death Data Set

Numerator Files:

United States

A. Record count:	28,756
B. Record length:	1,259
C. Data counts:	a. By occurrence: 28,756 b. By residence: 28,725 c. To foreign residents: 31

Territories

A. Record count:	436
B. Record length:	1,259

Denominator Files:

United States

A. Record count:	4,324,008
B. Record length:	900
C. Data counts:	a. By occurrence: 4,324,008 b. By residence: 4,316,233 c. To foreign residents: 7,775

Territories

A. Record count:	51,998
B. Record length:	900

Unlinked Files:

United States

A. Record count:	457
B. Record length:	1,259

Territories

A. Record count:	3
B. Record length:	1,259

2007 Cohort Linked Selected Data Elements and Locations

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

began	245-7, 256-9	245-7, 256-9	--	--
Number of prenatal visits	270-3	270-3	--	--
Medical and health data				
Method of delivery	390-401	390-401	--	--
Medical risk factors	313-19	313-19	--	--
	328-37	328-37	--	--
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 Characteristics of L/D	365-89	365-89	--	--
Abnormal conditions	476-82	476-82	--	--
Congenital anomalies	492-523	492-523	--	--
Underlying cause of death	--	--	884-87	884-87
130 infant cause recode	--	--	889-91	889-91
Multiple conditions	--	--	903-1148	903-1148
Other items				
Residence reporting				
Flags	569-771	569-771	--	--
Late record flag	9	9	--	--
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
2007 COHORT LINKED FILE PUBLIC-USE RECORD LAYOUT							
1-6	6	FILLER	Filler				
7	1	REVISION	Revision		U,R	R	State used the 2003 version of the US Standard Birth Certificate (Revised)
						U	State used the 1989 version of the US Standard Birth Certificate (Unrevised)
8	1	FILLER	Filler				
9	1	LATEREC	Late Record Flag		U,R	0	Not late record
						1	Late record
10-14	5	SEQNUM	Infant Death Number This number uniquely identifies the same infant In the numerator and denominator-plus files.			00001-nnnnn	
15-18	4	DOB_YY	Birth Year		U,R	2006 2007	2006 2007
19-20	2	DOB_MM	Birth Month		U,R	01 02 03 04 05 06 07 08 09 10 11 12	January February March April May June July August September October November December
21-28	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).

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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
30-31	2	OSTATE	Occurrence Territory (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R		
			<u>Outlying Areas of the U.S.</u>			GU PR VI	Guam Puerto Rico Virgin Islands
32-36	5	FILLER	Filler				
37-39	3	OCNTYFIPS	Occurrence County (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R		
			<u>Puerto Rico</u>			127 999	San Juan County less than 250,000
			<u>Other Outlying Areas of the U.S.</u>			000 999	No county level geography County less than 250,000
40	1	OCNTYPOP	Occurrence County Pop (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R	0 1 2 9	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County less than 250,000
41	1	BFACIL	Birth Place (Revised)	676	R	1 2 3 4 5 6 7 9 Blank	Hospital Freestanding Birthing Center Home (intended) Home (not intended) Home (unknown if intended) Clinic / Doctor's Office Other Unknown Not on certificate
42	1	UBFACIL	Birth Place		U,R	1 2 3 4 5 9	Hospital Freestanding Birthing Center Clinic / Doctor's Office Residence Other Unknown
* U,R			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
U			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
R			Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
43-58	16	FILLER	Filler				
59	1	BFACIL3	Birth Place Recode		U,R	1 2 3	In Hospital Not in Hospital Unknown or Not Stated
60-86	27	FILLER	Filler				
87	1	MAGE_IMPFLG	Mother's Age Imputed		U,R	Blank 1	Age not imputed Age imputed
88	1	MAGE_REPFLG	Reported Age of Mother Flag		U,R	Blank 1	Reported age not used Reported age used
89-90	2	MAGER	Mother's Age Recode 41		U,R	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	10 – 12 years 13 years 14 years 15 years 16 years 17 years 18 years 19 years 20 years 21 years 22 years 23 years 24 years 25 years 26 years 27 years 28 years 29 years 30 years 31 years 32 years 33 years 34 years 35 years 36 years 37 years 38 years 39 years 40 years

* 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
						41	41 years
						42	42 years
						43	43 years
						44	44 years
						45	45 years
						46	46 years
						47	47 years
						48	48 years
						49	49 years
						50	50 -54 years
91-92	2	MAGER14	Mother's Age Recode 14		U,R	01	Under 15 Years
						03	15 years
						04	16 years
						05	17 years
						06	18 years
						07	19 years
						08	20-24 years
						09	25-29 years
						10	30-34 years
						11	35-39 years
						12	40-44 years
						13	45-49 years
						14	50-54 years
93	1	MAGER9	Mother's Age Recode 9		U,R	1	Under 15 years
						2	15-19 years
						3	20-24 years
						4	25-29 years
						5	30-34 years
						6	35-39 years
						7	40-44 years
						8	45-49 years
						9	50-54 years
94-95	2	MBCNTRY	Mother's Birth Country (This item is available in the territory file only, geographic codes are not available in the U.S.file)		R**	AA-ZZ	A complete list is shown in the Geographic Code Outline.

** Also includes unrevised territories/possessions that use new geographic coding.

96-108	13	FILLER	Filler				
	* 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
109-110	2	MR Terr	Mother's Residence (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R	GU PR VI CC CU MX US XX ZZ	Guam Puerto Rico Virgin Islands Canada Cuba Mexico United States Not Applicable Not Classifiable
111-113	3	FILLER	Filler				
114-116	3	MRCNTY	Mother's County of residence (This item is available in the territory file only, geographic codes are not available in the U.S.file)				
			<u>Puerto Rico</u>			127 999	San Juan County of less than 250,000 or foreign resident
			<u>Other Outlying Areas of the US</u>			000 999	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 County (This item is available in the territory file only, geographic codes are not available in the U.S.file)		U,R	0 1 2 9 Z	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County less than 250,000 Foreign resident
133-136	4	FILLER	Filler				
137	1	RECTYPE	Record Type (This item is available in the territory file		U,R	1	RESIDENT: State and county of occurrence and residence are the same.
		* U,R	Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
		U	Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
		R	Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			only, geographic codes are not available in the U.S.file)			2	NONRESIDENT: State and county of occurrence and residence are different.
138	1	RESTATUS	Residence Status <u>United States</u>		U,R	1	RESIDENT: State and county of occurrence and residence are the same.
						2	INTRASTATE NONRESIDENT: State of occurrence and residence are the same but county is different.
						3	INTERSTATE NONRESIDENT: State of occurrence and residence are different but both are one of the 50 US states or District of Columbia.
						4	FOREIGN RESIDENT: The state of residence is not one of the 50 US states or District of Columbia.
			<u>Outlying areas of the US</u>			1	RESIDENT: State and county of occurrence and residence are the same. (Unique to Guam, all US residents are considered residents of Guam and thus are assigned 1.)
						2	INTRATERRITORY NONRESIDENT: Territory of occurrence and residence are the same but county is different.
						2	INTERTERRITORY RESIDENT: Territory of occurrence and residence are different but both are US Territories.
						3	FOREIGN RESIDENT: The residence is not a US Territory.
139-140	2	MBRACE	Mother's Bridged Race Includes only states reporting multiple race. Codes 01-14 used for individuals reporting only one race. Codes 21-24 used for individuals reporting more than one race that have been bridged to a single race. Code 24 also used for individuals reporting more than one Asian/Pacific Islander group; see "Technical Appendix."		R**	01	White – single race
						02	Black – single race
						03	American Indian/Alaska Native – single race
						04	Asian Indian – single race
						05	Chinese – single race
						06	Filipino – single race
						07	Japanese – single race
						08	Korean – single race
						09	Vietnamese – single race
						10	Other Asian – single race
						11	Hawaiian – single race
						12	Guamanian – single race
						13	Samoan – single race
						14	Other Pacific Islander – single race
						21	White – bridged multiple race
						22	Black – bridged multiple race
						23	American Indian / Alaska Native – bridged multiple race
						24	Asian / Pacific Islander – bridged multiple race
			** Also includes unrevised states that report 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).				
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
141-142	2	MRACE	Mother's Race Includes only states exclusively reporting single race. Some areas report additional Asian or Pacific Islander (API) codes for race. Codes 18-68 replace former code 08 for these areas. Code 78 replaces former code 08 for all other areas. See reporting flag at position 650 for API reporting area.		U		
			<u>United States</u>			01 02 03 04 05 06 07 18 28 38 48 58 68 78	White Black American Indian / Alaskan Native Chinese Japanese Hawaiian (includes part Hawaiian) Filipino Asian Indian Korean Samoan Vietnamese Guamanian Other Asian or Pacific Islander in areas reporting codes 18-58. Combined other Asian or Pacific Islander, includes 18-68 for areas that do not report them separately.
						Blank	Not on certificate
			<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

* 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
			<u>All other Outlying Areas of the US</u>			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 reporting only one race and individuals reporting more than one race bridged to a single race.		U,R		
			<u>United States and all Outlying Areas of the United States except Puerto Rico</u>			1 2 3 4	White Black American Indian / Alaskan Native Asian / Pacific Islander
			<u>Puerto Rico</u>			1 2 0	White Black Other (not classified as White or Black)
144	1	MRACEIMP	Mother's Race Imputed Flag		U,R	Blank 1 2	Mother's race not imputed Unknown race imputed All other races, formerly coded 09, imputed.
145-147	3	FILLER	Filler				
148	1	UMHISP	Mother's Hispanic Origin	569	U,R	0 1 2 3 4 5 9	Non-Hispanic Mexican Puerto Rican Cuban Central American Other and Unknown Hispanic Origin unknown or not stated
149	1	MRACEHISP	Mother's Race/Hispanic Origin	569	U,R	1 2	Mexican Puerto Rican

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

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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
						15	3 years of college
						16	4 years of college
						17	5 or more years of college
						99	Not stated
						Blank	Not on certificate
158	1	MEDUC_REC	Mother's Education Recode 647		U	1	0 – 8 years
						2	9 – 11 years
						3	12 years
						4	13 – 15 years
						5	16 years and over
						6	Not stated
						Blank	Not on certificate
159-174	16	FILLER	Filler				
175	1	FAGERPT_FLG	Father's Reported Age Used		U,R	Blank	Father's reported age not used
						1	Father's reported age used
176-181	6	FILLER	Filler				
182-183	2	FAGECOMB	Father's Combined Age (Revised)		R	09-98	Father's combined age in years
						99	Unknown or not stated
						Blank	Not on certificate
184-185	2	UFAGECOMB	Father's Combined Age (Unrevised)		U	10-98	Father's combined age in years
						99	Unknown or not stated
186-187	2	FAGEREC11	Father's Age Recode 11		U,R	01	Under 15 years
						02	15-19 years
						03	20-24 years
						04	25-29 years
						05	30-34 years
						06	35-39 years
						07	40-44 years
						08	45-49 years
						09	50-54 years
						10	55-98 years
						11	Not stated
188-189	2	FBRACE	Father's Bridged Race Includes only states reporting multiple race. Codes 01-14 used for individuals reporting only one race. Codes 21-24 used for individuals reporting more than		R**	01	White – single race
						02	Black – single race
						03	American Indian/Alaska Native – single race
						04	Asian Indian – single race

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

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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
			one race that have been bridged to a single race. Code 24 also used for individuals reporting more than one Asian/Pacific Islander group; see "Technical Appendix."			05 06 07 08 09 10 11 12 13 14 21 22 23 24 99	Chinese – single race Filipino – single race Japanese – single race Korean – single race Vietnamese – single race Other Asian – single race Hawaiian – single race Guamanian – single race Samoan – single race Other Pacific Islander – single race White – bridged multiple race Black – bridged multiple race American Indian / Alaska Native – bridged multiple race Asian / Pacific Islander – bridged multiple race Unknown or not stated, also includes states not reporting multiple race.
			** Also includes unrevised states that report multiple race.			Blank	Not on certificate
190	1	FILLER	Filler				
191	1	FRACEREC	Father's Race Recode Includes individuals reporting only one race and individuals reporting more than one race bridged to a single race.		U,R		
			<u>United States and all Outlying Areas of the US except Puerto Rico</u>			1 2 3 4 9	White Black American Indian / Alaskan Native Asian / Pacific Islander Unknown or not stated
			<u>Puerto Rico</u>			1 2 9 0	White Black Unknown or not stated Other (not classified as White or Black)
192-194	3	FILLER	Filler				
195	1	UFHISP	Father's Hispanic Origin				
				570	U,R	0 1 2 3	Non-Hispanic Mexican Puerto Rican Cuban
			* U,R				Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).
			U				Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.
			R				Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						4	Central American
						5	Other and Unknown Hispanic
						9	Origin unknown or not stated
196	1	FRACEHISP	Father's Race/Hispanic Origin	570	U,R	1	Mexican
						2	Puerto Rican
						3	Cuban
						4	Central or South American
						5	Other and Unknown Hispanic
						6	Non-Hispanic White
						7	Non-Hispanic Black
						8	Non-Hispanic Other Races
						9	Origin unknown or not stated
197-198	2	FILLER	Filler				
199-200	2	UFRACE	Father's Race (Unrevised)		U		
			<u>United States</u>			01	White
						02	Black
						03	American Indian / Alaska Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						18	Asian Indian
						28	Korean
						38	Samoan
						48	Vietnamese
						58	Guamanian
						68	Other Asian or Pacific Islander in areas reporting codes 18-58.
						78	Combined other Asian or Pacific Islander, includes 18-68 for areas that do not report them separately.
						99	Unknown or not stated
						Blank	Not on certificate
			<u>Puerto Rico</u>			01	White
						03	Black
						00	Other races not classified white or black
						99	Unknown or not stated
						Blank	Not on certificate
			<u>Guam</u>			01	White

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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
						02	Black
						03	American Indian / Alaska Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						58	Guamanian
						99	Unknown or not stated
						Blank	Not on certificate
			<u>All other Outlying Areas of the US</u>			01	White
						02	Black
						03	American Indian / Alaska Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						99	Unknown or not stated
						Blank	Not on certificate
201-211	11	FILLER	Filler				
212	1	LBO	Live Birth Order		U,R	1-7	Number of live birth order.
						8	8 or more live births
						9	Unknown or not stated
213-216	4	FILLER	Filler				
217	1	TBO	Total Birth Order		U,R	1-7	Number of total birth order.
						8	Total birth order of 8 or more
						9	Unknown or not stated
218-219	2	FILLER	Filler				
220-221	2	DLLB_MM	Date of Last Live Birth Month		R	01	January
						02	February
						03	March
						04	April
						05	May
						06	June
						07	July
						08	August

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

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

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

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						09	September
						10	October
						11	November
						12	December
						88	Not applicable
						99	Unknown or not stated
222-225	4	DLLB_YY	Date of Last Live Birth Year		R	nnnn 8888 9999	Year of last live birth Not applicable Unknown or not stated
226-244	19	FILLER	Filler				
245-246	2	PRECARE	Month Prenatal Care Began (Revised)	668	R	00 01-10 99 Blank	No prenatal care Month prenatal care began Unknown or not stated Not on certificate
247	1	PRECARE_REC	Month Prenatal Care Began Recode (Revised)	668	R	1 2 3 4 5 Blank	1 st to 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated Not on certificate
248-255	8	FILLER	Filler				
256-257	2	MPCB	Month Prenatal Care Began (Unrevised)	669	U	00 01-10 99 Blank	No prenatal care Month prenatal care began Unknown or not stated Not on certificate
258	1	MPCB_REC6	Month Prenatal Care Began Recode 6 (Unrevised)	669	U	1 2 3 4 5 6 Blank	1 st to 2 nd month 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated Not on certificate

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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
259	1	MPCB_REC5	Month Prenatal Care Began Recode 5 (Unrevised)	669	U	1 2 3 4 5 Blank	1 st trimester (1 st to 3 rd month) 2 nd trimester (4 th to 6 th month) 3 rd trimester (7 th to final month) No prenatal care Unknown or not stated Not on certificate
260-269	10	FILLER	Filler				
270-271	2	UPREVIS	Number of Prenatal Visits		U,R	00-49 99	Number of prenatal visits Unknown or not stated
272-273	2	PREVIS_REC	Number of Prenatal Visits Recode		U,R	01 02 03 04 05 06 07 08 09 10 11 12	No visits 1 to 2 visits 3 to 4 visits 5 to 6 visits 7 to 8 visits 9 to 10 visits 11 to 12 visits 13 to 14 visits 15 to 16 visits 17 to 18 visits 19 or more visits Unknown or not stated
274-275	2	FILLER	Filler				
276-277	2	WTGAIN	Weight Gain	648	U,R	00-97 98 99	Weight gain in pounds 98 pounds and over Unknown or not stated
278	1	WTGAIN_REC	Weight Gain Recode	648	U,R	1 2 3 4 5 6 7 8 9	Less than 16 pounds 16 to 20 pounds 21 to 25 pounds 26 to 30 pounds 31 to 35 pounds 36 to 40 pounds 41 to 45 pounds 46 or more pounds Unknown or not stated
279	1	FILLER	Filler				

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
280	1	DFPC_IMP	Day of Date First Prenatal Care Imputed		R	Blank 1	Day of date first prenatal care not imputed Day of date first prenatal care imputed
281-283	3	FILLER	Filler				
284-285	2	CIG_1	Cigarettes 1st Trimester	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
286-287	2	CIG_2	Cigarettes 2nd Trimester	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
288-289	2	CIG_3	Cigarettes 3rd Trimester	575	R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
290	1	TOBUSE	Tobacco Use	667	U	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
291-292	2	CIGS	Cigarettes per Day	667	U	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
293	1	UCIG_REC6	Cigarette Recode	667	U	0 1 2 3 4 5 6 Blank	Non-smoker 1 to 5 cigarettes daily 6 to 10 cigarettes daily 11 to 20 cigarettes daily 21 to 40 cigarettes daily 41 or more cigarettes daily Unknown or not stated Not on certificate
294	1	CIG_REC	Cigarette Recode	575	R	Y N U Blank	Yes No Unknown or not stated Not on certificate

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
295-312	18	FILLER	Filler				
313-319	9	<u>Risk Factors (Revised)</u> The checkbox items below follow this code structure:				Y N U Blank	Yes No Unknown or not stated Not on certificate
313	1	RF_DIAB	Prepregnancy Diabetes	582	R		
314	1	RF_GEST	Gestational Diabetes	583	R		
315	1	RF_PHYP	Prepregnancy Hypertesion	584	R		
316	1	RF_GHYP	Gestational Hypertension	585	R		
317	1	RF_ECLAM	Eclampsia	586	R		
318	1	RF_PPTERM	Previous Preterm Birth	587	R		
319	1	RF_PPOUTC	Poor Pregnancy Outcome	588	R		
320-323	4	FILLER	Filler				
324	1	RF_CESAR	Previous Cesarean Deliveries	593	R	Y N U Blank	Yes No Unknown or not stated Not on certificate
325-326	2	RF_CESARN	Number of Previous Cesarean Deliveries	594	R	00 01-30 99 Blank	None Number of previous cesareans Unknown or not stated Not on certificate
327	1	FILLER	Filler				
328-337	10	<u>Risk Factors in this Pregnancy</u> The checkbox items indented below follow this structure: The version is all 1989 Standard unless otherwise noted.				U	
328-330	3	FILLER	Filler			1 2 9 Blank	Yes No Unknown Not on certificate
331	1	URF_DIAB	Diabetes	684	U,R		
332-334	3	FILLER	Filler				
335	1	URF_CHYPER	Chronic Hypertension	688	U,R		
336	1	URF_PHYPER	Pregnancy-Associated Hypertension	689	U,R		
337	1	URF_ECLAM	Eclampsia	690	U,R		
338-350	13	FILLER	Filler				

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
351-354	4	<u>Obstetric Procedures (Revised)</u> The checkbox items indented below follow this structure:				Y N U Blank	Yes No Unknown or not stated Not on certificate
351	1	OP_CERV	Cervical Cerclage	601	R		
352	1	OP_TOCOL	Tocolysis	602	R		
353	1	OP_ECVS	Successful External Cephalic Version	603	R		
354	1	OP_ECVF	Failed External Cephalic Version	604	R		
355-361	7	<u>Obstetric Procedures (Unrevised)</u> The checkbox items indented below follow this structure: The version is all 1989 Standard unless otherwise noted.				1 2 9 Blank	Yes No Unknown or not stated Not on certificate
355-356	2	FILLER	Filler				
357	1	UOP_INDUC	Induction of Labor	703	U,R		
358	1	FILLER	Filler				
359	1	UOP_TOCOL	Tocolysis	705	U,R		
360-361	2	FILLER	Filler				
362-364	3	<u>Onset of Labor</u> The checkbox items below follow this structure:				Y N U Blank	Yes No Unknown or not stated Not on certificate
362	1	ON_RUPTR	Premature Rupture of Membrane	605	R		
363	1	ON_PRECIP	Precipitous Labor	606	R		
364	1	ON_PROL	Prolonged Labor	607	R		
365-373	9	<u>Characteristics of Labor and Delivery (Revised)</u> The checkbox items below follow this structure:				Y N U Blank	Yes No Unknown or not stated Not on certificate
365	1	LD_INDL	Induction of Labor	608	R		
366	1	LD_AUGM	Augmentation of Labor	609	R		
367	1	LD_NVPR	Non-Vertex Presentation	610	R		
368	1	LD_STER	Steroids	611	R		
369	1	LD_ANTI	Antibiotics	612	R		
370	1	LD_CHOR	Chorioamnionitis	613	R		
371	1	LD_MECS	Meconium Staining	614	R		
372	1	LD_FINT	Fetal Intolerance	615	R		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
373	1	LD_ANES	Anesthesia	616	R		
374-389	16	<u>Complications of Labor and Delivery</u>					
		The checkbox items indented below follow this structure:				1	Yes
						2	No
						9	Unknown or not stated
						Blank	Not on certificate
374	1	FILLER	Filler				
375	1	ULD_MECO	Meconium	712	U,R		
376-380	5	FILLER	Filler				
381	1	ULD_PRECIP	Precipitous Labor	718	U,R		
382-383	2	FILLER	Filler				
384	1	ULD_BREECH	Breech	721	U,R		
385-389	5	FILLER	Filler				
390-394	5	<u>Method of Delivery (Revised)</u>					
390	1	ME_ATTf	Attempted Forceps	617	R	Y N U Blank	Yes No Unknown Not on certificate
391	1	ME_ATTv	Attempted Vacuum	618	R	Y N U Blank	Yes No Unknown Not on certificate
392	1	ME_PRES	Fetal Presentation	619	R	1 2 3 9 Blank	Cephalic Breech Other Unknown Not on certificate
393	1	ME_ROUT	Route & Method of Delivery	620	R	1 2 3 4 9 Blank	Spontaneous Forceps Vacuum Cesarean Unknown Not on certificate
394	1	ME_TRIAL	Trial of Labor Attempted	621	R	Y N X	Yes No Not applicable

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						U Blank	Unknown Not on certificate
395-400	6	<u>Method of Delivery (Unrevised)</u>					
		The checkbox items indented below follow this structure:				1 2 9	Yes No Unknown or not stated
395	1	UME_VAG	Vaginal	730	U		
396	1	UME_VBAC	Vaginal after C-Section	731	U		
397	1	UME_PRIMC	Primary C-Section	732	U		
398	1	UME_REPEC	Repeat C-Section	733	U		
399	1	UME_FORCP	Forceps	734	U,R		
400	1	UME_VAC	Vacuum	735	U,R		
401	1	RDMETH_REC	Delivery Method Recode (Revised)	679	R	1 2 3 4 5 6 9	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)	680	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	Doctor of Medicine (MD) Doctor of Osteopathy (DO) Certified Nurse Midwife (CNM) Other Midwife

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						5 9	Other Unknown or not stated
411-414	4	FILLER	Filler				
415-416	2	APGAR5	Five Minute APGAR Score 574		U,R	00-10 99	A score of 0-10 Unknown or not stated
417	1	APGAR5R	Five Minute APGAR Recode 574		U,R	1 2 3 4 5	A score of 0-3 A score of 4-6 A score of 7-8 A score of 9-10 Unknown or not stated
418-422	5	FILLER	Filler				
423	1	DPLURAL	Plurality Recode		U,R	1 2 3 4 5	Single Twin Triplet Quadruplet Quintuplet or higher
424	1	FILLER	Filler				
425	1	IMP_PLUR	Plurality Imputed		U,R	Blank 1	Plurality is imputed Plurality is not imputed
426-435	10	FILLER	Filler				
436	1	SEX	Sex of Infant		U,R	M F	Male Female
437	1	IMP_SEX	Imputed Sex		U,R	Blank 1	Infant Sex not Imputed Infant Sex is Imputed
438-439	2	DLMP_MM	Last Normal Menses Month		U,R	01 02 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	September
						10	October
						11	November
						12	December
						99	Unknown or not stated
440-441	2	DLMP_DD	Last Normal Menses Day		U,R	01-31	As applicable to month of LMP
						99	Unknown or not stated
442-445	4	DLMP_YY	Last Normal Menses Year		U,R	nnnn	Year of last normal menses
						9999	Unknown or not stated
446-447	2	ESTGEST	Obstetric/Clinical Gestation Est.	573	U,R	0-98	0 through 98 th week of gestation
						99	Unknown or not stated
448-450	3	FILLER	Filler				
451-452	2	COMBGEST	Gestation – Detail in Weeks		U,R	17-47	17 th through 47 th week of gestation
						99	Unknown
453-454	2	GESTREC10	Gestation Recode 10		U,R	01	Under 20 weeks
						02	20-27 weeks
						03	28-31 weeks
						04	32-35 weeks
						05	36 weeks
						06	37-39 weeks
						07	40 weeks
						08	41 weeks
						09	42 weeks and over
						10	Unknown
455	1	GESTREC3	Gestation Recode 3		U,R	1	Under 37 weeks
						2	37 weeks and over
						3	Not stated
456	1	OBGEST_FLG	Clinical Estimate of Gestation Used Flag		U,R	Blank	Clinical Estimate is not used
						1	Clinical Estimate is used
457	1	GEST_IMP	Gestation Imputed Flag		U,R	Blank	Gestation is not imputed
						1	Gestation is imputed
458-466	9	FILLER	Filler				
467-470	4	BRTHWGT	Imputed Birthweight		U,R	0227-8165	Number of grams
						9999	Not stated birthweight
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Position	Len	Field	Description	Reporting Flag	Position	Rev*	Values	Definition
471-472	2	BWTR14	Birthweight Recode 14			U,R	01 02 03 04 05 06 07 08 09 10 11 12 13 14	499 grams or less 500 – 749 grams 750 - 999 grams 1000 - 1249 grams 1250 – 1499 grams 1500 – 1999 grams 2000 – 2499 grams 2500 – 2999 grams 3000 – 3400 grams 3500 – 3999 grams 4000 – 4499 grams 4500 – 4999 grams 5000 – 8165 grams Not Stated
473	1	BWTR4	Birthweight Recode 4			U,R	1 2 3 4	1499 grams or less 1500 – 2499 grams 2500 grams or more Unknown or not stated
474	1	FILLER	Filler					
475	1	BWTIMP	Imputed Birth Weight Flag			U,R	Blank 1	Birth Weight is not imputed Birth Weight is imputed
476-482	7		<u>Abnormal Conditions of the Newborn (Revised)</u> The checkbox items below follow this structure:				Y N U Blank	Yes, Complication reported No Complication reported Unknown or not stated Not on certificate
476	1	AB_AVEN1	Assisted Ventilation	628		R		
477	1	AB_AVEN6	Assisted Ventilation >6 hrs	629		R		
478	1	AB_NICU	Admission to NICU	630		R		
479	1	AB_SURF	Surfactant	631		R		
480	1	AB_ANTI	Antibiotics	632		R		
481	1	AB_SEIZ	Seizures	633		R		
482	1	AB_BINJ	Birth Injury	634		R		
483-491	9	FILLER	Filler					
492-503	12		<u>Congenital Anomalies of the Newborn (Revised)</u> The checkbox items below follow this structure:				Y	Yes, anomaly reported
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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						N	No, anomaly not reported
						U	Unknown
						Blank	Not on certificate
492	1	CA_ANEN	Anencephaly	635	R		
493	1	CA_MNSB	Meningomyelocele/Spina Bifida	636	R		
494	1	CA_CCHD	Cyanotic Congenital Heart Disease	637	R		
495	1	CA_CDH	Congenital Diaphragmatic Hernia	638	R		
496	1	CA_OMP	Omphalocele	639	R		
497	1	CA_GAST	Gastroschisis	640	R		
498	1	CA_LIMB	Limb Reduction Defect	641	R		
499	1	CA_CLEFT	Cleft Lip w/ or w/o Cleft Palate	642	R		
500	1	CA_CLPAL	Cleft Palate alone	643	R		
501	1	CA_DOWN	Downs Syndrome	644	R	C	Confirmed
						P	Pending
						N	No
						U	Unknown
						Blank	Not on certificate
502	1	CA_DISOR	Suspected Chromosomal Disorder	645	R	C	Confirmed
						P	Pending
						N	No
						U	Unknown
						Blank	Not on certificate
503	1	CA_HYPO	Hypospadias	646	R	Y	Yes, Anomaly reported
						N	No, Anomaly not reported
						U	Unknown
						Blank	Not on certificate
504-523	20	<u>Congenital Anomalies of the Newborn</u>					
		The checkbox items indented below follow this structure:					
		The version is all 1989 Standard unless otherwise noted.					
						1	Anomaly reported
						2	Anomaly not reported
						9	Anomaly not classifiable
						Blank	Not on certificate
504	1	UCA_ANEN	Anencephalus	752	U,R		
505	1	UCA_SPINA	Spina Bifida / Meningocele	753	U,R		
506-512	7	FILLER	Filler				
513	1	UCA_OMP	Omphalocele / Gastroschisis	761	U,R		
514-517	4	FILLER	Filler				
518	1	UCA_CELFTLP	Cleft Lip / Palate	766	U,R		
519-522	4	FILLER	Filler				
523	1	UCA_DOWNS	Downs Syndrome	771	U,R		
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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
524-568	45	FILLER	Filler				
569-771	203	<u>Flag File for Reporting Flags</u>					
		The reporting flags indented below follow this coding structure:				0	Not reporting
						1	Reporting
569	1	F_MORIGIN	Origin of Mother		U,R		
570	1	F_FORIGIN	Origin of Father		U,R		
571	1	F_MEDUC	Education of Mother		R		
572	1	FILLER	Filler				
573	1	F_CLINEST	Clinical Estimate of Gestation		U,R		
574	1	F_APGAR5	Five minute APGAR		U,R		
575	1	F_TOBACO	Tobacco use		R		
576-581	6	FILLER	Filler				
582	1	F_RF_PDIAB	Prepregnancy Diabetes		R		
583	1	F_RF_GDIAB	Gestational Diabetes		R		
584	1	F_RF_PHYPER	Prepregnancy Hypertension		R		
585	1	F_RF_GHYPER	Gestational Hypertension		R		
586	1	F_RF_ECLAMP	Eclampsia		R		
587	1	F_RF_PPB	Previous Preterm Birth		R		
588	1	F_RF_PPO	Poor Pregnancy Outcome		R		
589-592	4	FILLER	Filler				
593	1	F_RF_CESAR	Previous Cesarean		R		
594	1	F_RF_NCESAR	Number of Previous Cesareans		R		
595-600	6	FILLER	Filler				
601	1	F_OB_CERVIC	Cervical Cerclage		R		
602	1	F_OB_TOCO	Tocolysis		R		
603	1	F_OB_SUCC	Successful External Cephalic Version		R		
604	1	F_OB_FAIL	Failed External Cephalic Version		R		
605	1	F_OL_RUPTURE	Premature Rupture of Membranes		R		
606	1	F_OL_PRECIP	Precipitous Labor		R		
607	1	F_OL_PROLONG	Prolonged Labor		R		
608	1	F_LD_INDUCT	Induction of Labor		R		
609	1	F_LD_AUGMENT	Augmentation of Labor		R		
610	1	F_LD_NVRTX	Non-Vertex Presentation		R		
611	1	F_LD_STEROIDS	Steroids		R		
612	1	F_LD_ANTIBIO	Antibiotics		R		
613	1	F_LD_CHORIO	Chorioamnionitis		R		
614	1	F_LD_MECON	Meconium Staining		R		
615	1	F_LD_FINTOL	Fetal Intolerance		R		
616	1	F_LD_ANESTH	Anesthesia		R		
617	1	F_MD_ATTFOR	Attempted Forceps		R		
618	1	F_MD_ATTVAC	Attempted Vacuum		R		
619	1	F_MD_PRESENT	Fetal Presentation		R		

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620	1	F_MD_ROUTE	Final Route and Method of Delivery		R		
621	1	F_MD_TRIAL	Trial of Labor Attempted		R		
622-627	6	FILLER	Filler				
628	1	F_AB_VENT	Assisted Ventilation		R		
629	1	F_AB_VENT6	Assisted Ventilation >6 hrs		R		
630	1	F_AB_NICU	Admission to NICU		R		
631	1	F_AB_SURFAC	Surfactant		R		
632	1	F_AB_ANTIBIO	Antibiotics		R		
633	1	F_AB_SEIZ	Seizures		R		
634	1	F_AB_INJ	Birth Injury		R		
635	1	F_CA_ANEN	Anencephaly		R		
636	1	F_CA_MENIN	Meningomyelocele/Spina Bifida		R		
637	1	F_CA_HEART	Cyanotic Congenital Heart Disease		R		
638	1	F_CA_HERNIA	Congenital Diaphragmatic Hernia		R		
639	1	F_CA_OMPHA	Omphalocele		R		
640	1	F_CA_GASTRO	Gastroschisis		R		
641	1	F_CA_LIMB	Limb Reduction Defect		R		
642	1	F_CA_CLEFTLP	Cleft Lip w/ or w/o Cleft Palate		R		
643	1	F_CA_CLEFT	Cleft Palate Alone		R		
644	1	F_CA_DOWNS	Downs Syndrome		R		
645	1	F_CA_CHROM	Suspected Chromosomal Disorder		R		
646	1	F_CA_HYPOS	Hypospadias		R		
647	1	F_MED	Mother's Education		U		
648	1	F_WTGAIN	Weight Gain		U,R		
649-666	18	FILLER	Filler				
667	1	F_TOBAC	Tobacco Use		U		
668	1	F_MPCB	Month Prenatal Care Began		R		
669	1	F_MPCB_U	Month Prenatal Care Began		U		
670-683	14	FILLER	Filler				
684	1	F_URF_DIABETES	Diabetes		U		
685-687	3	FILLER	Filler				
688	1	F_URF_CHYPER	Chronic Hypertension		U		
689	1	F_URF_PHYPER	Pregnancy Associated Hypertension		U		
690	1	F_URF_ECLAMP	Eclampsia		U		
691-702	12	FILLER	Filler				
703	1	F_UOB_INDUCT	Induction of Labor		U		
704	1	FILLER	Filler				
705	1	F_UOB_TOCOL	Tocolysis		U		
706-711	6	FILLER	Filler				
712	1	F_ULD_MECONIUM	Meconium		U		
713-717	5	FILLER	Filler				
718	1	F_ULD_PRECIP	Precipitous Labor		U		
719-720	2	FILLER	Filler				
721	1	F_ULD_BREECH	Breech		U		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
722-729	8	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		
736-751	16	FILLER	Filler				
752	1	F_UCA_ANEN	Anencephalus		U		
753	1	F_UCA_SPINA	Spina Bifida / Meningocele		U		
754-760	7	FILLER	Filler				
761	1	F_UCA_OMPHALO	Omphalocele / Gastroschisis		U		
762-765	4	FILLER	Filler				
766	1	F_UCA_CLEFTLP	Cleft Lip / Palate		U		
767-770	4	FILLER	Filler				
771	1	F_UCA_DOWNS	Downs Syndrome		U		
772-867	96	FILLER	Filler				
868	1	FLGND	Match Status			1 2 3	Matched birth/infant death record Surviving infant record Unmatched infant death record (code used only in unlinked file)
869-871	3	FILLER	Filler				
872-874	3	AGED	Age at Death in Days			000-365	Number of days
875	1	AGER5	Infant age recode 5			1 2 3 4 5	Under 1 hour 1 – 23 hours 1 – 6 days 7 – 27 days (late neonatal) 28 days and over (postneonatal)
876-877	2	AGER22	Infant age recode 22			Blank 01 02 03 04 05 06 07 08	Age 1 year and over or not stated Under 1 hour (includes not stated hours and minutes) 1 – 23 hours 1 day (includes not stated days) 2 days 3 days 4 days 5 days 6 days

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

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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
						9 Blank	Unspecified place Cause other than W00-Y34, except Y06.- and Y07.-
883	1	FILLER	Filler				
884-887	4	UCOD	ICD Code (10th Revision) See the <u>International Classification of Diseases, 1992</u> Revision, Volume I.				
888	1	FILLER	Filler				
889-891	3	UCODR130	130 Infant Cause Recode			001-158	Code Range
892	1	FILLER	Filler				
893-900	8	RECWT	Record Weight (no weights computed for possessions file) 1.XXXXXXX				

Here ends the cohort denominator-plus file. The numerator (linked) file continues below.

901-902	2	FILLER	Filler				
903-904	2	EANUM	Number of Entity-Axis Conditions			00-20	Code range
905-1044	140	ENTITY	Entity-Axis Conditions Space has been provided for a maximum of 20 conditions. Each condition takes 7 positions in the record. The 7 th position will be blank. Records that do not have 20 conditions are blank in the unused area.				
			Position 1:	Part/line number on certificate			
			1	...	Part I, line 1 (a)		
			2	...	Part I, line 2 (b)		
			3	...	Part I, line 3 (c)		
			4	...	Part I, line 4 (d)		
			5	...	Part I, line 5 (e)		
			6	...	Part II		
			Position 2:	Sequence of condition within part/line			
			1-7	...	Code range		
			Position 3 – 6:	Condition code			

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
See Table 1 for a complete list of codes							
905-911	7		1 st Condition				
912-918	7		2 nd Condition				
919-925	7		3 rd Condition				
926-932	7		4 th Condition				
933-939	7		5 th Condition				
940-946	7		6 th Condition				
947-953	7		7 th Condition				
954-960	7		8 th Condition				
961-967	7		9 th Condition				
968-974	7		10 th Condition				
975-981	7		11 th Condition				
982-988	7		12 th Condition				
989-995	7		13 th Condition				
996-1002	7		14 th Condition				
1003-1009	7		15 th Condition				
1010-1016	7		16 th Condition				
1017-1023	7		17 th Condition				
1024-1030	7		18 th Condition				
1031-1037	7		19 th Condition				
1038-1044	7		20 th Condition				
1045-1046	2	FILLER	Filler				
1047-1048	2	RANUM	Number of Record-Axis Conditions			00-20	Code range
1049-1148	100	RECORD	Record-Axis Conditions Space has been provided for a maximum of 20 conditions. Each condition takes 5 positions in the record. The 5 th position will be blank. Records that do not have 20 conditions are blank in the unused area. Positions 1 – 4: Condition Code See Table 1 for a complete list of codes				
1049-1053	5		1 st Condition				
1054-1058	5		2 nd Condition				
1059-1063	5		3 rd Condition				
1064-1068	5		4 th Condition				
1069-1073	5		5 th Condition				
1074-1078	5		6 th Condition				
1079-1083	5		7 th Condition				
1084-1088	5		8 th Condition				
* 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
	1089-1093	5	9 th Condition				
	1094-1098	5	10 th Condition				
	1099-1103	5	11 th Condition				
	1104-1108	5	12 th Condition				
	1109-1113	5	13 th Condition				
	1114-1118	5	14 th Condition				
	1119-1123	5	15 th Condition				
	1124-1128	5	16 th Condition				
	1129-1133	5	17 th Condition				
	1134-1138	5	18 th Condition				
	1139-1143	5	19 th Condition				
	1144-1148	5	20 th Condition				
1149-1150	2	FILLER	Filler				
1151	1	D_RESTATUS	Death Resident Status				
			United States Occurrence			1	RESIDENTS State and County of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS State of Occurrence and Residence are the same, but County is different.
						3	INTERSTATE NONRESIDENTS State of Occurrence and Residence are different, but both are in the U.S.
						4	FOREIGN RESIDENTS State of Occurrence is one of the 50 States or the District of Columbia, but Place of Residence is outside of the U.S.
			Puerto Rico Occurrence			1	RESIDENTS Territory and County-equivalent of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS Territory of Occurrence and Residence are the same, but County-equivalent is different.
						3	INTERTERRITORY NONRESIDENTS Territory of occurrence and residence are different, but both are a Territory.
						4	FOREIGN RESIDENTS Occurred in Puerto Rico to a resident of any other place.
			Virgin Islands Occurrence			1	RESIDENTS

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
							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) of Death (This item is available in the territory file only, geographic codes are not available in the U.S.file)				
						PR	Puerto Rico
						VI	Virgin Islands
						GU	Guam
1154-1156	3	CNTOCFIPD	County of Occurrence (FIPS) of Death Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State and identify each county. (Note: To uniquely identify a county, both the state and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document. (This item is available in the territory file only, geographic codes are not available in the U.S.file)				
						001-nnn	Code range
						999	County of less than 250,000
* 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.				
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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
1157-1159	3	FILLER	Filler				
1160-1161	2	STRESFIPD	State of Residence (FIPS) (This item is available in the territory file only, geographic codes are not available in the U.S.file)				
			Territories			PR VI GU	Puerto Rico Virgin Islands Guam
			Puerto Rico Occurrence			PR US,ZZ	Puerto Rico Foreign residents
			Virgin Islands Occurrence			VI US, ZZ	Virgin Islands Foreign residents
			Guam Occurrence			GU US ZZ	Guam U.S. resident. Also considered a resident of Guam. Foreign residents
1162-1163	2	FILLER	Filler				
1164-1165	2	DRCNTY	State/Country of Residence of Death Recode (This item is available in the territory file only, geographic codes are not available in the U.S.file)				
			Territorial residents			PR VI GU	Puerto Rico Virgin Islands Guam
			Foreign residents			CC MX CU YY	Canada Mexico Cuba Remainder of the world
			Puerto Rico Occurrence			PR US,ZZ	Puerto Rico Foreign residents
			Virgin Islands Occurrence			VI US, ZZ	Virgin Islands Foreign residents

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			Guam Occurrence			GU US ZZ	Guam U.S. resident. Also considered a resident of Guam Foreign residents
1166-1167	3	CNTYRFPD	County of Residence (FIPS) of Death Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State and identify each county. (Note: To uniquely identify a county, both the state and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document. (This item is available in the territory file only, geographic codes are not available in the U.S.file)			000 001-999	Foreign residents Code range County of less than 250,000
1169-1181	13	FILLER	Filler				
1182	1	CNTRSPPD	Population Size of County of Residence of Death Based on the results of the 2000 Census (This item is available in the territory file only, geographic codes are not available in the U.S.file)			0 1 2 9 Z	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County of less than 250,000 Foreign residents
1183-1185	3	FILLER	Filler				
1186	1	HOSPD	Place of Death and Decedent's Status			1 2 3 4 5 6 7	Hospital, clinic or Medical Center – Inpatient Hospital, clinic or Medical Center – Outpatient or admitted to Emergency Room Hospital, clinic or Medical Center – Dead on Arrival Decedent's home Hospice facility Nursing home/long term care Other
* U,R			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
U			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
R			Includes data based on both the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						9	Place of death unknown
1187	1	WEEKDAYD	Day of Week of Death			1 2 3 4 5 6 7 9	Sunday Monday Tuesday Wednesday Thursday Friday Saturday Unknown
1188-1191	4	DTHYR	Death Year			2007	2007
1192-1257	66	FILLER	Filler				
1258-1259	2	DOD_MM	Month of Death			01 02 03 04 05 06 07 08 09 10 11 12	January February March April May June July August September October November December

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

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Documentation Table 1. Live births and infant deaths by state of occurrence of birth and by state of residence at birth United States, Puerto Rico, Virgin Islands, and Guam, 2007 Link Birth Cohort Data.

(Residence of birth is of the mother)

State	Live births		Infant deaths			
	Occurrence	Residence	Unweighted Occurrence	Unweighted Residence	Weighted 1/ Occurrence	Weighted 1/ Residence
United States /2	4324008	4316233	28756	28725	29213	29181
Alabama	63995	64804	658	653	659	654
Alaska	10955	11052	71	73	73	75
Arizona	103797	102981	709	704	726	721
Arkansas	40168	41378	305	314	307	316
California	567527	566414	2830	2821	2939	2930
Colorado	71225	70809	452	437	455	440
Connecticut	42265	41660	278	281	278	281
Delaware	12527	12170	95	98	95	98
Dist of Columbia	14824	8864	176	118	177	119
Florida	239389	239165	1711	1704	1712	1705
Georgia	152068	151137	1196	1193	1206	1203
Hawaii	19151	19134	119	121	121	123
Idaho	24436	25019	137	158	137	158
Illinois	177450	180836	1176	1245	1192	1261
Indiana	90572	89864	664	667	668	671
Iowa	40988	40886	197	224	199	226
Kansas	42938	42004	327	330	327	330
Kentucky	57424	59368	352	396	354	398
Louisiana	66336	66301	566	564	607	604
Maine	13974	14120	85	83	85	83
Maryland	74940	78095	572	617	573	618
Massachusetts	78723	77967	382	376	385	379
Michigan	124124	125261	991	1005	993	1007
Minnesota	73595	73735	414	409	414	409
Mississippi	45509	46491	439	465	441	467
Missouri	82823	81930	675	609	679	613
Montana	12400	12439	79	84	79	84
Nebraska	27117	26934	194	181	194	181
Nevada	40766	41181	236	238	248	250
New Hampshire	13937	14168	59	69	59	69
New Jersey	112883	116063	582	606	587	611
New Mexico	29905	30616	163	170	177	184
New York	126468	130125	732	771	751	789
New York City	128961	123326	677	625	677	626
North Carolina	132188	131037	1113	1116	1117	1120
North Dakota	10152	8840	65	59	65	59
Ohio	151342	150879	1166	1130	1187	1150
Oklahoma	54154	55065	423	434	432	444
Oregon	49873	49378	304	279	304	279
Pennsylvania	149999	150713	1149	1128	1156	1135
Rhode Island	13192	12376	99	89	100	90
South Carolina	60204	62875	512	539	513	540
South Dakota	12815	12261	98	80	98	80
Tennessee	92049	86711	790	725	792	727
Texas	414170	407625	2460	2450	2590	2580
Utah	56319	55130	307	281	309	283
Vermont	6210	6513	29	30	29	30
Virginia	107262	108884	836	853	838	855
Washington	88944	88978	433	435	434	436
West Virginia	21917	21994	170	161	171	162
Wisconsin	71741	72784	464	473	465	474
Wyoming	7317	7893	39	54	39	54
Foreign Residents	-	7775	-	31	-	32
Puerto Rico	46727	46642	394	393	394	393
Virgin Islands	1780	1697	9	10	9	10
Guam	3491	3480	33	33	33	33

1/ Figures are based on weighted data rounded to the nearest infant, so categories may not add to totals

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

Documentation Table 2

Live births, infant deaths, and infant mortality rates by race of mother, sex and birthweight of child: United States, 2007
birth cohort data

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

Race of mother and sex	Total	<500 grams	500-749 grams	750-999 grams	1000-1249 grams	1250-1499 grams	1500-1999 grams	2000-2499 grams	2500 grams or more	Not stated
All races ¹										
Both sexes										
Live births.....	4,316,233	7,446	12,063	12,818	14,936	17,986	69,067	221,429	3,959,945	543
Infant deaths.....	29,181	6,420	5,460	1,967	1,115	795	1,876	2,398	9,043	107
Infant mortality rate.....	6.76	862.21	452.62	153.46	74.65	44.20	27.16	10.83	2.28	197.05
Male										
Live births.....	2,208,071	3,747	6,083	6,627	7,583	9,026	33,625	101,772	2,039,320	288
Infant deaths.....	16,304	3,287	3,169	1,206	661	444	993	1,250	5,223	71
Infant mortality rate.....	7.38	877.24	520.96	181.98	87.17	49.19	29.53	12.28	2.56	246.53
Female										
Live births.....	2,108,162	3,699	5,980	6,191	7,353	8,960	35,442	119,657	1,920,625	255
Infant deaths.....	12,877	3,133	2,292	761	454	351	883	1,149	3,820	36
Infant mortality rate.....	6.11	846.99	383.28	122.92	61.74	39.17	24.91	9.60	1.99	141.18
White										
Both sexes										
Live births.....	3,336,626	4,194	6,939	7,968	9,448	11,772	46,845	152,283	3,096,785	392
Infant deaths.....	18,762	3,600	3,219	1,264	723	506	1,311	1,683	6,404	52
Infant mortality rate.....	5.62	858.37	463.90	158.63	76.52	42.98	27.99	11.05	2.07	132.65
Male										
Live births.....	1,708,315	2,104	3,527	4,176	4,871	6,066	23,031	70,679	1,593,658	203
Infant deaths.....	10,528	1,842	1,852	784	437	278	703	884	3,714	33
Infant mortality rate.....	6.16	875.48	525.09	187.74	89.71	45.83	30.52	12.51	2.33	162.56
Female										
Live births.....	1,628,311	2,090	3,412	3,792	4,577	5,706	23,814	81,604	1,503,127	189
Infant deaths.....	8,234	1,758	1,367	480	285	227	608	799	2,690	19
Infant mortality rate.....	5.06	841.15	400.64	126.58	62.27	39.78	25.53	9.79	1.79	*
Black										
Both sexes										
Live births.....	675,676	2,872	4,549	4,224	4,619	5,080	17,703	52,869	583,639	121
Infant deaths.....	8,729	2,487	1,950	615	327	221	458	588	2,036	48
Infant mortality rate.....	12.92	865.95	428.67	145.60	70.79	43.50	25.87	11.12	3.49	396.69
Male										
Live births.....	343,279	1,441	2,275	2,125	2,268	2,398	8,320	23,537	300,842	73
Infant deaths.....	4,821	1,259	1,158	365	189	121	237	303	1,154	35
Infant mortality rate.....	14.04	873.70	509.01	171.76	83.33	50.46	28.49	12.87	3.84	479.45
Female										
Live births.....	332,397	1,431	2,274	2,099	2,351	2,682	9,383	29,332	282,797	48
Infant deaths.....	3,908	1,227	792	250	138	100	221	285	881	14
Infant mortality rate.....	11.76	857.44	348.28	119.10	58.70	37.29	23.55	9.72	3.12	*

¹/ Includes races other than white and black.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United States, 2007 birth cohort data

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

Birthweight	Gestation									
	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 races ¹										
Total										
Live births	4,316,233	33,391	54,661	68,914	389,636	2,346,479	816,262	357,809	242,235	6,846
Infant deaths	29,181	13,338	2,414	1,125	2,881	6,212	1,631	721	632	227
Infant mortality rate	6.76	399.45	44.16	16.32	7.39	2.65	2.00	2.02	2.61	33.16
Less than 2,500 grams										
Live births	355,745	32,067	41,117	45,109	119,180	93,943	11,760	5,422	6,343	804
Infant deaths	20,031	13,326	2,282	944	1,638	1,307	207	121	119	88
Infant mortality rate	56.31	415.57	55.50	20.93	13.74	13.91	17.60	22.32	18.76	109.45
Less than 500 grams										
Live births	7,446	7,125	208	19	18	13	2	3	-	58
Infant deaths	6,420	6,202	138	15	12	7	2	3	-	41
Infant mortality rate	862.21	870.46	663.46	*	*	*	*	*	-	706.90
500-749 grams										
Live births	12,063	10,514	1,351	54	44	37	8	4	11	40
Infant deaths	5,460	5,034	356	16	13	11	5	3	4	17
Infant mortality rate	452.62	478.79	263.51	*	*	*	*	*	*	*
750-999 grams										
Live births	12,818	7,947	4,216	294	117	149	26	13	20	36
Infant deaths	1,967	1,474	405	41	15	14	3	-	3	11
Infant mortality rate	153.46	185.48	96.06	139.46	*	*	*	*	*	*
1,000-1,249 grams										
Live births	14,936	3,539	8,265	1,602	779	433	127	68	94	29
Infant deaths	1,115	387	503	97	82	28	6	4	7	-
Infant mortality rate	74.65	109.35	60.86	60.55	105.26	64.67	*	*	*	-
1,250-1,499 grams										
Live births	17,986	1,022	9,511	3,756	2,382	815	211	96	150	43
Infant deaths	795	107	345	130	130	52	9	10	9	2
Infant mortality rate	44.20	104.70	36.27	34.61	54.58	63.80	*	*	*	*
1,500-1,999 grams										
Live births	69,067	1,074	12,979	20,077	24,190	8,164	1,031	573	838	141
Infant deaths	1,876	91	404	385	547	342	42	22	34	9
Infant mortality rate	27.16	84.73	31.13	19.18	22.61	41.89	40.74	38.39	40.57	*
2,000-2,499 grams										
Live births	221,429	846	4,587	19,307	91,650	84,332	10,355	4,665	5,230	457
Infant deaths	2,398	31	131	259	837	852	140	78	62	7
Infant mortality rate	10.83	36.64	28.56	13.41	9.13	10.10	13.52	16.72	11.85	*
2,500-2,999 grams										
Live births	797,926	1,324	4,682	10,022	131,545	482,797	94,729	37,454	33,996	1,377
Infant deaths	3,344	12	72	102	723	1,760	354	153	160	8
Infant mortality rate	4.19	*	15.38	10.18	5.50	3.65	3.74	4.09	4.71	*
3,000-3,499 grams										
Live births	1,687,045	-	5,878	8,890	95,349	1,012,837	330,077	134,750	97,026	2,238
Infant deaths	3,510	-	39	50	369	2,017	581	234	207	13
Infant mortality rate	2.08	-	6.63	5.62	3.87	1.99	1.76	1.74	2.13	*

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United states, 2007 birth cohort data

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

Birthweight	Gestation									
	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 races ¹										
3,500-3,999 grams										
Live births	1,144,002	-	2,984	3,979	35,160	603,726	287,655	130,810	78,267	1,421
Infant deaths	1,700	-	21	14	110	882	384	164	117	6
Infant mortality rate	1.49	-	7.04	*	3.13	1.46	1.33	1.25	1.49	*
4,000-4,499 grams										
Live births	286,218	-	-	791	7,146	132,937	80,123	42,180	22,657	384
Infant deaths	393	-	-	13	29	199	94	40	15	1
Infant mortality rate	1.37	-	-	*	4.06	1.50	1.17	0.95	*	*
4,500-4,999 grams										
Live births	40,218	-	-	109	1,067	17,959	10,914	6,556	3,550	63
Infant deaths	73	-	-	-	10	35	9	6	11	1
Infant mortality rate	1.82	-	-	-	*	1.95	*	*	*	*
5,000 grams or more										
Live births	4,536	-	-	14	189	2,280	1,004	637	396	16
Infant deaths	23	-	-	1	2	10	2	3	2	3
Infant mortality rate	5.07	-	-	*	*	*	*	*	*	*
Not stated										
Live births	543	-	-	-	-	-	-	-	-	543
Infant deaths	107	-	-	-	-	-	-	-	-	107
Infant mortality rate	197.05	-	-	-	-	-	-	-	-	197.05
White										
Total										
Live births	3,336,626	19,621	36,734	48,356	286,001	1,818,792	644,754	285,852	191,464	5,052
Infant deaths	18,762	7,778	1,555	774	2,007	4,390	1,158	519	451	132
Infant mortality rate	5.62	396.41	42.33	16.01	7.02	2.41	1.80	1.82	2.36	26.13
Less than 2,500 grams										
Live births	239,449	18,807	27,198	31,516	82,918	62,736	7,836	3,623	4,296	519
Infant deaths	12,306	7,771	1,461	645	1,140	921	146	89	77	55
Infant mortality rate	51.39	413.20	53.72	20.47	13.75	14.68	18.63	24.57	17.92	105.97
Less than 500 grams										
Live births	4,194	3,999	121	14	12	5	2	3	-	38
Infant deaths	3,600	3,475	75	11	7	1	2	3	-	27
Infant mortality rate	858.37	868.97	619.83	*	*	*	*	*	-	710.53
500-749 grams										
Live births	6,939	5,984	825	33	29	25	4	3	9	27
Infant deaths	3,219	2,958	209	13	7	10	2	3	4	12
Infant mortality rate	463.90	494.32	253.33	*	*	*	*	*	*	*
750-999 grams										
Live births	7,968	4,826	2,687	202	83	112	16	12	12	18
Infant deaths	1,264	934	269	32	11	10	2	-	1	5
Infant mortality rate	158.63	193.54	100.11	158.42	*	*	*	*	*	*
1,000-1,249 grams										
Live births	9,448	2,216	5,196	1,030	519	280	79	45	61	22
Infant deaths	723	256	314	62	59	19	4	3	5	-
Infant mortality rate	76.52	115.52	60.43	60.19	113.68	*	*	*	*	-

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United states, 2007 birth cohort data

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

Birthweight	Gestation									
	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	11,772	625	6,263	2,446	1,565	537	151	59	98	28
Infant deaths	506	69	223	75	83	41	4	5	5	1
Infant mortality rate	42.98	110.40	35.61	30.66	53.04	76.35	*	*	*	*
1,500-1,999 grams										
Live births	46,845	630	9,034	13,766	16,241	5,431	714	371	572	86
Infant deaths	1,311	60	282	260	384	245	34	14	26	7
Infant mortality rate	27.99	95.24	31.22	18.89	23.64	45.11	47.62	*	45.45	*
2,000-2,499 grams										
Live births	152,283	527	3,072	14,025	64,469	56,346	6,870	3,130	3,544	300
Infant deaths	1,683	19	90	192	589	594	98	60	36	3
Infant mortality rate	11.05	*	29.30	13.69	9.14	10.54	14.26	19.17	10.16	*
2,500-2,999 grams										
Live births	563,026	814	3,073	6,820	96,236	339,336	65,529	26,292	23,972	954
Infant deaths	2,294	7	52	77	500	1,203	238	102	109	6
Infant mortality rate	4.07	*	16.92	11.29	5.20	3.55	3.63	3.88	4.55	*
3,000-3,499 grams										
Live births	1,300,414	-	4,168	6,274	72,569	782,936	253,274	104,279	75,270	1,644
Infant deaths	2,479	-	27	34	258	1,412	409	173	155	10
Infant mortality rate	1.91	-	6.48	5.42	3.56	1.80	1.61	1.66	2.06	*
3,500-3,999 grams										
Live births	948,391	-	2,295	3,029	27,542	502,144	238,458	108,849	64,927	1,147
Infant deaths	1,261	-	14	7	78	670	281	117	89	4
Infant mortality rate	1.33	-	*	*	2.83	1.33	1.18	1.07	1.37	*
4,000-4,499 grams										
Live births	246,400	-	-	618	5,742	114,347	69,302	36,476	19,588	327
Infant deaths	297	-	-	10	21	149	73	31	11	1
Infant mortality rate	1.21	-	-	*	3.66	1.30	1.05	0.85	*	*
4,500-4,999 grams										
Live births	34,786	-	-	89	855	15,430	9,506	5,772	3,079	55
Infant deaths	56	-	-	-	7	25	9	4	9	1
Infant mortality rate	1.61	-	-	-	*	1.62	*	*	*	*
5,000 grams or more										
Live births	3,768	-	-	10	139	1,863	849	561	332	14
Infant deaths	18	-	-	1	2	9	1	2	1	2
Infant mortality rate	*	-	-	*	*	*	*	*	*	*
Not stated										
Live births	392	-	-	-	-	-	-	-	-	392
Infant deaths	52	-	-	-	-	-	-	-	-	52
Infant mortality rate	132.65	-	-	-	-	-	-	-	-	132.65
Black										
Total										
Live births	675,676	12,152	14,674	16,276	78,168	357,019	112,551	48,198	35,417	1,221
Infant deaths	8,729	4,870	724	271	693	1,412	372	153	154	81
Infant mortality rate	12.92	400.76	49.34	16.65	8.87	3.95	3.31	3.17	4.35	66.34

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United states, 2007 birth cohort data

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

Birthweight	Gestation									Not Stated
	Total	<28 Weeks	28-31 Weeks	32-35 Weeks	36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	
Black										
Less than 2,500 grams										
Live births	91,916	11,714	11,518	10,795	27,945	23,620	3,056	1,403	1,648	217
Infant deaths	6,645	4,866	690	236	398	314	50	26	38	27
Infant mortality rate	72.29	415.40	59.91	21.86	14.24	13.29	16.36	18.53	23.06	124.42
Less than 500 grams										
Live births	2,872	2,760	78	4	5	8	-	-	-	17
Infant deaths	2,487	2,403	57	4	4	6	-	-	-	12
Infant mortality rate	865.95	870.65	730.77	*	*	*	-	-	-	*
500-749 grams										
Live births	4,549	4,032	457	18	13	10	4	1	2	12
Infant deaths	1,950	1,808	127	3	4	1	3	-	-	4
Infant mortality rate	428.67	448.41	277.90	*	*	*	*	*	*	*
750-999 grams										
Live births	4,224	2,756	1,309	72	31	27	7	1	7	14
Infant deaths	615	475	118	9	3	3	1	-	2	4
Infant mortality rate	145.60	172.35	90.15	*	*	*	*	*	*	*
1,000-1,249 grams										
Live births	4,619	1,162	2,563	458	214	125	40	23	30	4
Infant deaths	327	112	155	28	19	7	2	1	2	-
Infant mortality rate	70.79	96.39	60.48	61.14	*	*	*	*	*	*
1,250-1,499 grams										
Live births	5,080	340	2,666	1,071	640	222	48	33	49	11
Infant deaths	221	33	95	41	31	7	4	4	4	1
Infant mortality rate	43.50	97.06	35.63	38.28	48.44	*	*	*	*	*
1,500-1,999 grams										
Live births	17,703	392	3,161	5,077	6,247	2,149	249	164	225	39
Infant deaths	458	27	103	99	131	76	7	5	7	2
Infant mortality rate	25.87	68.88	32.58	19.50	20.97	35.37	*	*	*	*
2,000-2,499 grams										
Live births	52,869	272	1,284	4,095	20,795	21,079	2,708	1,181	1,335	120
Infant deaths	588	7	34	52	205	213	33	16	23	4
Infant mortality rate	11.12	*	26.48	12.70	9.86	10.10	12.19	*	17.23	*
2,500-2,999 grams										
Live births	167,917	438	1,312	2,575	26,478	100,869	20,415	8,026	7,495	309
Infant deaths	854	4	17	18	183	446	99	38	45	2
Infant mortality rate	5.09	*	*	*	6.91	4.42	4.85	4.73	6.00	*
3,000-3,499 grams										
Live births	260,166	-	1,318	2,054	17,029	153,141	50,495	20,526	15,231	372
Infant deaths	786	-	9	11	82	450	141	45	44	3
Infant mortality rate	3.02	-	*	*	4.82	2.94	2.79	2.19	2.89	*
3,500-3,999 grams										
Live births	126,195	-	526	710	5,532	65,420	30,969	14,072	8,804	162
Infant deaths	319	-	7	5	22	158	69	34	23	-
Infant mortality rate	2.53	-	*	*	3.98	2.42	2.23	2.42	2.61	-

See footnotes at end of table.

Documentation Table 3

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and gestational age:
United states, 2007 birth cohort data

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

Birthweight	Gestation									
	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	25,402	-	-	125	1,005	12,025	6,638	3,628	1,948	33
Infant deaths	62	-	-	1	5	35	11	6	3	-
Infant mortality rate	2.44	-	-	*	*	2.91	*	*	*	-
4,500-4,999 grams										
Live births	3,475	-	-	15	139	1,669	886	503	258	5
Infant deaths	12	-	-	-	3	8	-	1	-	-
Infant mortality rate	*	-	-	*	*	*	-	*	-	*
5,000 grams or more										
Live births	484	-	-	2	40	275	92	40	33	2
Infant deaths	3	-	-	-	-	1	-	1	-	1
Infant mortality rate	*	-	-	*	-	*	-	*	-	*
Not stated										
Live births	121	-	-	-	-	-	-	-	-	121
Infant deaths	48	-	-	-	-	-	-	-	-	48
Infant mortality rate	396.69	-	-	-	-	-	-	-	-	396.69

-/ Quality zero.

*/Figure does not meet standard of reliability or precision; see Technical notes.

¹/ Includes races other than white and black.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2007 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		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
All races ¹						
Total (all birthweights).....	4,316,233	29,181	19,067	15,127	3,941	10,114
Rate.....		6.76	4.42	3.50	0.91	2.34
Less than 2,500 grams.....	355,745	20,031	15,993	13,279	2,714	4,039
Rate.....		56.31	44.96	37.33	7.63	11.35
Less than 500 grams.....	7,446	6,420	6,219	6,021	198	201
Rate.....		862.21	835.21	808.62	26.59	26.99
500-749 grams.....	12,063	5,460	4,577	3,656	921	883
Rate.....		452.62	379.42	303.08	76.35	73.20
750-999 grams.....	12,818	1,967	1,433	954	479	534
Rate.....		153.46	111.80	74.43	37.37	41.66
1,000-1,249 grams.....	14,936	1,115	771	553	218	343
Rate.....		74.65	51.62	37.02	14.60	22.96
1,250-1,499 grams.....	17,986	795	529	383	146	266
Rate.....		44.20	29.41	21.29	8.12	14.79
1,500-1,999 grams.....	69,067	1,876	1,210	900	310	666
Rate.....		27.16	17.52	13.03	4.49	9.64
2,000-2,499 grams.....	221,429	2,398	1,253	812	442	1,145
Rate.....		10.83	5.66	3.67	2.00	5.17
2,500-2,999 grams.....	797,926	3,344	1,235	743	492	2,110
Rate.....		4.19	1.55	0.93	0.62	2.64
3,000-3,499 grams.....	1,687,045	3,510	1,065	579	486	2,445
Rate.....		2.08	0.63	0.34	0.29	1.45
3,500-3,999 grams.....	1,144,002	1,700	483	294	189	1,216
Rate.....		1.49	0.42	0.26	0.17	1.06
4,000-4,499 grams.....	286,218	393	138	89	48	255
Rate.....		1.37	0.48	0.31	0.17	0.89
4,500-4,999 grams.....	40,218	73	29	23	6	43
Rate.....		1.82	0.72	0.57	*	1.07
5,000 grams or more.....	4,536	23	17	13	4	6
Rate.....		5.07	*	*	*	*
Not stated.....	543	107	107	105	2	-
Rate.....		197.05	197.05	193.37	*	-

See footnotes at end of table.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2007 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		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
White						
Total (all birthweights).....	3,336,626	18,762	12,242	9,667	2,575	6,521
Rate.....		5.62	3.67	2.90	0.77	1.95
Less than 2,500 grams.....	239,449	12,306	9,972	8,268	1,704	2,334
Rate.....		51.39	41.65	34.53	7.12	9.75
Less than 500 grams.....	4,194	3,600	3,516	3,411	106	84
Rate.....		858.37	838.34	813.30	25.27	20.03
500-749 grams.....	6,939	3,219	2,787	2,255	532	432
Rate.....		463.90	401.64	324.97	76.67	62.26
750-999 grams.....	7,968	1,264	957	640	317	307
Rate.....		158.63	120.11	80.32	39.78	38.53
1,000-1,249 grams.....	9,448	723	534	396	137	189
Rate.....		76.52	56.52	41.91	14.50	20.00
1,250-1,499 grams.....	11,772	506	360	275	85	146
Rate.....		42.98	30.58	23.36	7.22	12.40
1,500-1,999 grams.....	46,845	1,311	884	668	216	427
Rate.....		27.99	18.87	14.26	4.61	9.12
2,000-2,499 grams.....	152,283	1,683	933	622	311	749
Rate.....		11.05	6.13	4.08	2.04	4.92
2,500-2,999 grams.....	563,026	2,294	891	562	330	1,403
Rate.....		4.07	1.58	1.00	0.59	2.49
3,000-3,499 grams.....	1,300,414	2,479	798	445	353	1,681
Rate.....		1.91	0.61	0.34	0.27	1.29
3,500-3,999 grams.....	948,391	1,261	382	238	144	879
Rate.....		1.33	0.40	0.25	0.15	0.93
4,000-4,499 grams.....	246,400	297	111	74	37	186
Rate.....		1.21	0.45	0.30	0.15	0.75
4,500-4,999 grams.....	34,786	56	23	19	4	32
Rate.....		1.61	0.66	*	*	0.92
5,000 grams or more.....	3,768	18	12	10	2	6
Rate.....		*	*	*	*	*
Not stated.....	392	52	52	51	1	-
Rate.....		132.65	132.65	130.10	*	-

See footnotes at end of table.

Documentation Table 4

Live births, infant deaths, and infant mortality rates by birthweight, race of mother, and age at death: United states, 2007 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		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
Black						
Total (all birthweights).....	675,676	8,729	5,742	4,591	1,151	2,987
Rate.....		12.92	8.50	6.79	1.70	4.42
Less than 2,500 grams.....	91,916	6,645	5,151	4,274	876	1,495
Rate.....		72.29	56.04	46.50	9.53	16.26
Less than 500 grams.....	2,872	2,487	2,381	2,300	80	106
Rate.....		865.95	829.04	800.84	27.86	36.91
500-749 grams.....	4,549	1,950	1,544	1,198	347	406
Rate.....		428.67	339.42	263.35	76.28	89.25
750-999 grams.....	4,224	615	406	259	147	210
Rate.....		145.60	96.12	61.32	34.80	49.72
1,000-1,249 grams.....	4,619	327	196	128	68	130
Rate.....		70.79	42.43	27.71	14.72	28.14
1,250-1,499 grams.....	5,080	221	123	72	51	98
Rate.....		43.50	24.21	14.17	10.04	19.29
1,500-1,999 grams.....	17,703	458	253	177	76	205
Rate.....		25.87	14.29	10.00	4.29	11.58
2,000-2,499 grams.....	52,869	588	247	141	106	341
Rate.....		11.12	4.67	2.67	2.00	6.45
2,500-2,999 grams.....	167,917	854	258	131	127	595
Rate.....		5.09	1.54	0.78	0.76	3.54
3,000-3,499 grams.....	260,166	786	188	84	104	598
Rate.....		3.02	0.72	0.32	0.40	2.30
3,500-3,999 grams.....	126,195	319	73	40	33	246
Rate.....		2.53	0.58	0.32	0.26	1.95
4,000-4,499 grams.....	25,402	62	16	8	8	45
Rate.....		2.44	*	*	*	1.77
4,500-4,999 grams.....	3,475	12	5	3	2	7
Rate.....		*	*	*	*	*
5,000 grams or more.....	484	3	3	2	1	-
Rate.....		*	*	*	*	-
Not stated.....	121	48	48	48	-	-
Rate.....		396.69	396.69	396.69	-	-

See footnotes at end of table.

-/ Quantity zero.

*/Figure does not meet standard of reliability or precision; see Technical notes.

¹/ Includes races other than white and black.

Documentation Table 5

Live births by birthweight and race of mother and infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2007 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 100,000 live births]

Cause of death, birthweight, and race of mother	Live	Total	Early	Late	Post-	
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
All races ¹						
All birthweights						
All causes	4,316,233	29,181 676.08	19,067 441.75	15,127 350.47	3,941 91.31	10,114 234.32
Congenital malformations (Q00-Q99).....		5,825 134.96	4,087 94.69	3,128 72.47	959 22.22	1,738 40.27
Short gestation and low birthweight nec (P07).....		4,875 112.95	4,750 110.05	4,616 106.95	133 3.08	125 2.90
Sudden infant death syndrome (R95).....		2,459 56.97	213 4.93	31 0.72	182 4.22	2,247 52.06
Maternal complications of pregnancy (P01).....		1,774 41.10	1,753 40.61	1,733 40.15	20 0.46	21 0.49
Complications of placenta, cord, membranes (P02).....		1,120 25.95	1,108 25.67	1,066 24.70	41 0.95	12 *
Respiratory distress of newborn (P22).....		799 18.51	777 18.00	603 13.97	174 4.03	22 0.51
Accidents (unintentional injuries) (V01-X59).....		1,282 29.70	124 2.87	28 0.65	96 2.22	1,158 26.83
Bacterial sepsis of newborn (P36).....		838 19.42	790 18.30	325 7.53	465 10.77	48 1.11
Diseases of the circulatory system (I00-I99).....		620 14.36	131 3.04	70 1.62	61 1.41	489 11.33
Intrauterine hypoxia, birth asphyxia (P20-P21).....		353 8.18	334 7.74	278 6.44	55 1.27	19 *
All other causes.....		9,236 213.98	5,002 115.89	3,248 75.25	1,754 40.64	4,234 98.09
Less than 2,500 grams						
All causes	355,745	20,031 5,630.72	15,993 4,495.64	13,279 3,732.73	2,714 762.91	4,039 1,135.36
Congenital malformations (Q00-Q99).....		3,605 1,013.37	2,802 787.64	2,283 641.75	519 145.89	803 225.72
Short gestation and low birthweight nec (P07).....		4,786 1,345.35	4,664 1,311.05	4,532 1,273.95	131 36.82	122 34.29
Sudden infant death syndrome (R95).....		523 147.02	42 11.81	4 *	38 10.68	481 135.21
Maternal complications of pregnancy (P01).....		1,723 484.34	1,702 478.43	1,682 472.81	20 5.62	21 5.90
Complications of placenta, cord, membranes (P02).....		1,036 291.22	1,026 288.41	995 279.69	31 8.71	10 *
Respiratory distress of newborn (P22).....		780 219.26	759 213.36	590 165.85	169 47.51	21 5.90
Accidents (unintentional injuries) (V01-X59).....		236 66.34	25 7.03	8 *	17 *	211 59.31
Bacterial sepsis of newborn (P36).....		716 201.27	672 188.90	267 75.05	404 113.56	44 12.37
Diseases of the circulatory system (I00-I99).....		286 80.39	68 19.11	42 11.81	26 7.31	218 61.28

See footnotes at end of table.

Documentation Table 5

Live births by birthweight and race of mother and infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2007 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 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
All races ¹						
Intrauterine hypoxia, birth asphyxia (P20-P21).....		235 66.06	228 64.09	198 55.66	29 8.15	7 *
All other causes.....		6,105 1,716.12	4,006 1,126.09	2,678 752.79	1,328 373.30	2,099 590.03
2,500 grams or more						
All causes	3,959,945	9,043 228.36	2,968 74.95	1,742 43.99	1,225 30.93	6,075 153.41
Congenital malformations (Q00-Q99).....		2,216 55.96	1,281 32.35	843 21.29	439 11.09	935 23.61
Short gestation and low birthweight nec (P07).....		37 0.93	34 0.86	32 0.81	2 *	3 *
Sudden infant death syndrome (R95).....		1,936 48.89	170 4.29	27 0.68	144 3.64	1,766 44.60
Maternal complications of pregnancy (P01).....		33 0.83	33 0.83	33 0.83	- -	- -
Complications of placenta, cord, membranes (P02).....		80 2.02	78 1.97	68 1.72	10 *	2 *
Respiratory distress of newborn (P22).....		19 *	18 *	13 *	5 *	1 *
Accidents (unintentional injuries) (V01-X59).....		1,046 26.41	99 2.50	19 *	79 1.99	947 23.91
Bacterial sepsis of newborn (P36).....		120 3.03	116 2.93	57 1.44	59 1.49	4 *
Diseases of the circulatory system (I00-I99).....		334 8.43	63 1.59	28 0.71	35 0.88	271 6.84
Intrauterine hypoxia, birth asphyxia (P20-P21).....		118 2.98	106 2.68	80 2.02	26 0.66	12 *
All other causes.....		3,103 78.36	969 24.47	543 13.71	426 10.76	2,135 53.91
Not stated birthweight						
All causes	543	107 19,705.34	107 19,705.34	105 19,337.02	2 *	- -
Congenital malformations (Q00-Q99).....		4 *	4 *	3 *	1 *	- -
Short gestation and low birthweight nec (P07).....		52 9,576.43	52 9,576.43	52 9,576.43	- -	- -
Sudden infant death syndrome (R95).....		- -	- -	- -	- -	- -
Maternal complications of pregnancy (P01).....		18 *	18 *	18 *	- -	- -
Complications of placenta, cord, membranes (P02).....		3 *	3 *	3 *	- -	- -
Respiratory distress of newborn (P22).....		- -	- -	- -	- -	- -
Accidents (unintentional injuries) (V01-X59).....		- -	- -	- -	- -	- -

See footnotes at end of table.

Documentation Table 5

Live births by birthweight and race of mother and infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2007 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 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).....		2 *	2 *	1 *	1 *	- -
Diseases of the circulatory system (I00-I99).....		-	-	-	-	-
Intrauterine hypoxia, birth asphyxia (P20-P21).....		-	-	-	-	-
All other causes.....		27	27	27	-	-
		4,972.38	4,972.38	4,972.38	-	-
White						
All birthweights						
All causes	3,160,289	17,630 557.86	11,474 363.07	9,050 286.37	2,424 76.70	6,156 194.79
Congenital malformations (Q00-Q99).....		4,084 129.23	2,927 92.62	2,275 71.99	651 20.60	1,157 36.61
Short gestation and low birthweight nec (P07).....		2,515 79.58	2,460 77.84	2,386 75.50	74 2.34	55 1.74
Sudden infant death syndrome (R95).....		1,562 49.43	130 4.11	18 *	112 3.54	1,432 45.31
Maternal complications of pregnancy (P01).....		978 30.95	966 30.57	953 30.16	12 *	12 *
Complications of placenta, cord, membranes (P02).....		661 20.92	654 20.69	630 19.93	23 0.73	7 *
Respiratory distress of newborn (P22).....		465 14.71	452 14.30	350 11.07	103 3.26	13 *
Accidents (unintentional injuries) (V01-X59).....		819 25.92	79 2.50	20 0.63	59 1.87	741 23.45
Bacterial sepsis of newborn (P36).....		484 15.32	458 14.49	171 5.41	287 9.08	26 0.82
Diseases of the circulatory system (I00-I99).....		368 11.64	86 2.72	44 1.39	42 1.33	282 8.92
Intrauterine hypoxia, birth asphyxia (P20-P21).....		218 6.90	203 6.42	174 5.51	28 0.89	15 *
All other causes.....		5,476 173.28	3,061 96.86	2,028 64.17	1,033 32.69	2,416 76.45
Less than 2,500 grams						
All causes	226,701	11,506 5,075.41	9,309 4,106.29	7,717 3,404.04	1,592 702.25	2,197 969.12
Congenital malformations (Q00-Q99).....		2,483 1,095.28	1,970 868.99	1,632 719.89	338 149.10	513 226.29
Short gestation and low birthweight nec (P07).....		2,468 1,088.66	2,417 1,066.16	2,345 1,034.40	72 31.76	52 22.94
Sudden infant death syndrome (R95).....		287 126.60	25 11.03	2 *	23 10.15	262 115.57
Maternal complications of pregnancy (P01).....		945 416.85	933 411.56	921 406.26	12 *	12 *

See footnotes at end of table.

Documentation Table 5

Live births by birthweight and race of mother and infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2007 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 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).....	602 265.55	595 262.46	580 255.84	15 *	6 *	
Respiratory distress of newborn (P22).....	450 198.50	438 193.21	340 149.98	99 43.67	12 *	
Accidents (unintentional injures) (V01-X59).....	129 56.90	16 *	5 *	11 *	113 49.85	
Bacterial sepsis of newborn (P36).....	404 178.21	380 167.62	131 57.79	249 109.84	24 10.59	
Diseases of the circulatory system (I00-I99).....	162 71.46	43 18.97	27 11.91	16 *	119 52.49	
Intrauterine hypoxia, birth asphyxia (P20-P21).....	135 59.55	130 57.34	121 53.37	9 *	5 *	
All other causes.....	3,441 1,517.86	2,362 1,041.90	1,614 711.95	748 329.95	1,079 475.96	
2,500 grams or more						
All causes	2,933,387 207.27	6,080 72.31	2,121 43.98	1,290 28.33	831 134.96	3,959
Congenital malformations (Q00-Q99).....	1,598 54.48	954 32.52	642 21.89	312 10.64	644 21.95	
Short gestation and low birthweight nec (P07).....	26 0.89	23 0.78	21 0.72	2 *	3 *	
Sudden infant death syndrome (R95).....	1,275 43.47	105 3.58	16 *	88 3.00	1,170 39.89	
Maternal complications of pregnancy (P01).....	23 0.78	23 0.78	23 0.78	- -	- -	
Complications of placenta, cord, membranes (P02).....	58 1.98	57 1.94	49 1.67	8 *	1 *	
Respiratory distress of newborn (P22).....	15 *	14 *	10 *	4 *	1 *	
Accidents (unintentional injures) (V01-X59).....	690 23.52	62 2.11	14 *	48 1.64	628 21.41	
Bacterial sepsis of newborn (P36).....	80 2.73	78 2.66	40 1.36	38 1.30	2 *	
Diseases of the circulatory system (I00-I99).....	206 7.02	43 1.47	17 *	26 0.89	163 5.56	
Intrauterine hypoxia, birth asphyxia (P20-P21).....	82 2.80	72 2.45	53 1.81	19 *	10 *	
All other causes.....	2,025 69.03	689 23.49	404 13.77	285 9.72	1,337 45.58	
Not stated birthweight						
All causes	201 21,890.55	44 21,890.55	44 21,393.03	43 *	1 *	- -
Congenital malformations (Q00-Q99).....	3 *	3 *	2 *	1 *	- -	
Short gestation and low birthweight nec (P07).....	20 9,950.25	20 9,950.25	20 9,950.25	- -	- -	

See footnotes at end of table.

Documentation Table 5

Live births by birthweight and race of mother and infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2007 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 100,000 live births]

Cause of death, birthweight, and race of mother	Live		Total	Early	Late	Post-
	Births	Infant	Neonatal	Neonatal	Neonatal	Neonatal
White						
Sudden infant death syndrome (R95).....	-	-	-	-	-	-
Maternal complications of pregnancy (P01).....	9	9	9	9	-	-
Complications of placenta, cord, membranes (P02).....	1	1	1	1	-	-
Respiratory distress of newborn (P22).....	-	-	-	-	-	-
Accidents (unintentional injuries) (V01-X59).....	-	-	-	-	-	-
Bacterial sepsis of newborn (P36).....	-	-	-	-	-	-
Diseases of the circulatory system (I00-I99).....	-	-	-	-	-	-
Intrauterine hypoxia, birth asphyxia (P20-P21).....	-	-	-	-	-	-
All other causes.....	10	10	10	10	-	-
	*	*	*	*	-	-
Black						
All birthweights						
All causes	653,536	8,531	5,607	4,480	1,126	2,924
		1,305.36	857.95	685.50	172.29	447.41
Congenital malformations (Q00-Q99).....	1,068	682	490	193	386	
	163.42	104.36	74.98	29.53	59.06	
Short gestation and low birthweight nec (P07).....	1,894	1,835	1,784	50	59	
	289.81	280.78	272.98	7.65	9.03	
Sudden infant death syndrome (R95).....	698	71	11	59	627	
	106.80	10.86	*	9.03	95.94	
Maternal complications of pregnancy (P01).....	610	602	594	8	8	
	93.34	92.11	90.89	*	*	
Complications of placenta, cord, membranes (P02).....	345	341	327	14	4	
	52.79	52.18	50.04	*	*	
Respiratory distress of newborn (P22).....	270	261	209	52	9	
	41.31	39.94	31.98	7.96	*	
Accidents (unintentional injuries) (V01-X59).....	370	34	6	28	336	
	56.62	5.20	*	4.28	51.41	
Bacterial sepsis of newborn (P36).....	267	249	111	138	18	
	40.85	38.10	16.98	21.12	*	
Diseases of the circulatory system (I00-I99).....	167	30	14	16	136	
	25.55	4.59	*	*	20.81	
Intrauterine hypoxia, birth asphyxia (P20-P21).....	91	87	70	17	4	
	13.92	13.31	10.71	*	*	
All other causes.....	2,750	1,414	863	550	1,336	
	420.79	216.36	132.05	84.16	204.43	
Less than 2,500 grams						
All causes	90,024	6,507	5,034	4,176	858	1,473
		7,228.07	5,591.84	4,638.76	953.08	1,636.23

See footnotes at end of table.

Documentation Table 5

Live births by birthweight and race of mother and infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2007 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 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).....	707 785.35	495 549.85	377 418.78	118 131.08	212 235.49	
Short gestation and low birthweight nec (P07).....	1,857 2,062.78	1,798 1,997.25	1,748 1,941.70	50 55.54	59 65.54	
Sudden infant death syndrome (R95).....	208 231.05	16 *	2 *	14 *	192 213.28	
Maternal complications of pregnancy (P01).....	600 666.49	592 657.60	584 648.72	8 *	8 *	
Complications of placenta, cord, membranes (P02).....	329 365.46	326 362.13	313 347.69	13 *	3 *	
Respiratory distress of newborn (P22).....	267 296.59	258 286.59	206 228.83	52 57.76	9 *	
Accidents (unintentional injuries) (V01-X59).....	96 106.64	7 *	3 *	4 *	89 98.86	
Bacterial sepsis of newborn (P36).....	239 265.48	223 247.71	100 111.08	123 136.63	16 *	
Diseases of the circulatory system (I00-I99).....	90 99.97	19 *	10 *	9 *	71 78.87	
Intrauterine hypoxia, birth asphyxia (P20-P21).....	73 81.09	71 78.87	58 64.43	13 *	2 *	
All other causes.....	2,041 2,267.17	1,229 1,365.19	775 860.88	454 504.31	812 901.98	
2,500 grams or more						
All causes	563,421	1,978 351.07	526 93.36	259 45.97	268 47.57	1,452 257.71
Congenital malformations (Q00-Q99).....	362 64.25	187 33.19	112 19.88	75 13.31	174 30.88	
Short gestation and low birthweight nec (P07).....	9 *	9 *	9 *	- -	- -	
Sudden infant death syndrome (R95).....	490 86.97	55 9.76	9 *	45 7.99	435 77.21	
Maternal complications of pregnancy (P01).....	4 *	4 *	4 *	- -	- -	
Complications of placenta, cord, membranes (P02).....	14 *	13 *	12 *	1 *	1 *	
Respiratory distress of newborn (P22).....	3 *	3 *	3 *	- -	- -	
Accidents (unintentional injuries) (V01-X59).....	274 48.63	27 4.79	3 *	24 4.26	247 43.84	
Bacterial sepsis of newborn (P36).....	27 4.79	25 4.44	10 *	15 *	2 *	
Diseases of the circulatory system (I00-I99).....	77 13.67	11 *	4 *	7 *	66 11.71	
Intrauterine hypoxia, birth asphyxia (P20-P21).....	18 *	16 *	12 *	4 *	2 *	
All other causes.....	700 124.24	175 31.06	80 14.20	96 17.04	524 93.00	

See footnotes at end of table.

Documentation Table 5

Live births by birthweight and race of mother and infant deaths and infant mortality rates by age of death, birthweight, and race of mother for 10 major causes of infant death: United States, 2007 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 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	91	46	46	46	-	-
		50,549.45	50,549.45	50,549.45	-	-
Congenital malformations (Q00-Q99).....		-	-	-	-	-
		-	-	-	-	-
Short gestation and low birthweight nec (P07).....		28	28	28	-	-
		30,769.23	30,769.23	30,769.23	-	-
Sudden infant death syndrome (R95).....		-	-	-	-	-
		-	-	-	-	-
Maternal complications of pregnancy (P01).....		6	6	6	-	-
		*	*	*	-	-
Complications of placenta, cord, membranes (P02).....		2	2	2	-	-
		*	*	*	-	-
Respiratory distress of newborn (P22).....		-	-	-	-	-
		-	-	-	-	-
Accidents (unintentional injuries) (V01-X59).....		-	-	-	-	-
		-	-	-	-	-
Bacterial sepsis of newborn (P36).....		1	1	1	-	-
		*	*	*	-	-
Diseases of the circulatory system (I00-I99).....		-	-	-	-	-
		-	-	-	-	-
Intrauterine hypoxia, birth asphyxia (P20-P21).....		-	-	-	-	-
		-	-	-	-	-
All other causes.....		9	9	9	-	-
		*	*	*	-	-

-/ Quality zero.

*Figure does not meet standard of reliability or precision; see Technical notes.

¹/ Includes races other than white and black.

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

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2007 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
United States /2					
Total	453	358	334	24	95
White	296	226	211	15	70
Black	126	106	99	7	20
Alabama					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
Alaska					
Total	2	1	1	-	1
White	-	-	-	-	-
Black	-	-	-	-	-
Arizona					
Total	19	10	10	-	9
White	14	8	8	-	6
Black	-	-	-	-	-
Arkansas					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
California					
Total	108	102	101	1	6
White	78	72	72	-	6
Black	18	18	17	1	-
Colorado					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
Connecticut					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Delaware					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Dist of Columbia					
Total	1	1	1	-	-
White	1	1	1	-	-
Black	-	-	-	-	-
Florida					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Georgia					
Total	10	8	4	4	2
White	6	6	3	3	-
Black	4	2	1	1	2
Hawaii					
Total	2	-	-	-	2
White	1	-	-	-	1
Black	-	-	-	-	-

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

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2007 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Idaho					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Illinois					
Total	16	13	12	1	3
White	9	7	6	1	2
Black	7	6	6	-	1
Indiana					
Total	5	3	3	-	2
White	2	2	2	-	-
Black	3	1	1	-	2
Iowa					
Total	1	1	-	1	-
White	1	1	-	1	-
Black	-	-	-	-	-
Kansas					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Kentucky					
Total	3	3	3	-	-
White	2	2	2	-	-
Black	1	1	1	-	-
Louisiana					
Total	39	30	28	2	9
White	14	11	11	-	3
Black	24	18	16	2	6
Maine					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Maryland					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-
Massachusetts					
Total	2	2	2	-	-
White	-	-	-	-	-
Black	2	2	2	-	-
Michigan					
Total	2	2	2	-	-
White	2	2	2	-	-
Black	-	-	-	-	-
Minnesota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Mississippi					
Total	2	-	-	-	2
White	2	-	-	-	2
Black	-	-	-	-	-

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

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2007 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Missouri					
Total	3	2	2	-	1
White	2	1	1	-	1
Black	1	1	1	-	-
Montana					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Nebraska					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Nevada					
Total	12	11	9	2	1
White	7	6	4	2	1
Black	2	2	2	-	-
New Hampshire					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
New Jersey					
Total	6	5	4	1	1
White	3	2	1	1	1
Black	2	2	2	-	-
New Mexico					
Total	17	12	6	6	5
White	15	10	6	4	5
Black	-	-	-	-	-
New York					
Total	15	13	12	1	2
White	11	9	8	1	2
Black	4	4	4	-	-
New York City					
Total	7	5	4	1	2
White	4	3	2	1	1
Black	3	2	2	-	1
North Carolina					
Total	3	1	1	-	2
White	2	1	1	-	1
Black	1	-	-	-	1
North Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Ohio					
Total	18	14	13	1	4
White	6	4	4	-	2
Black	12	10	9	1	2
Oklahoma					
Total	8	6	4	2	2
White	6	4	3	1	2
Black	2	2	1	1	-

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

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2007 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Oregon					
Total	1	-	-	-	1
White	-	-	-	-	-
Black	1	-	-	-	1
Pennsylvania					
Total	6	3	3	-	3
White	3	1	1	-	2
Black	3	2	2	-	1
Rhode Island					
Total	1	-	-	-	1
White	-	-	-	-	-
Black	1	-	-	-	1
South Carolina					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
South Dakota					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Tennessee					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Texas					
Total	134	107	105	2	27
White	98	74	72	2	24
Black	32	29	29	-	3
Utah					
Total	4	2	1	1	2
White	4	2	1	1	2
Black	-	-	-	-	-
Vermont					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
Virginia					
Total	2	2	2	-	-
White	-	-	-	-	-
Black	2	2	2	-	-
Washington					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
West Virginia					
Total	1	1	1	-	-
White	-	-	-	-	-
Black	1	1	1	-	-
Wisconsin					
Total	1	-	-	-	1
White	1	-	-	-	1
Black	-	-	-	-	-

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

[Infant deaths are under 1 year. Neonatal death are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days; and postneonatal, 28 days through 11 months. Data in this table is for infant deaths in 2007 that are not included in the linked file because they were not linked with their corresponding birth certificates. See methodology section. Residence is of infant decedent; race is from death certificate]

State and race of child 1/	Infant	Total neonatal	Early neonatal	Late neonatal	Postneonatal
Wyoming					
Total	-	-	-	-	-
White	-	-	-	-	-
Black	-	-	-	-	-
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.