

**Public Use  
Data File  
Documentation**

2011 Cohort Linked Birth/Infant Death Data Set

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

# **2011 Cohort Linked Birth/Infant Death Data Set**

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[User guide for the 2011 Period Linked Birth/Infant Death Data Set](#)

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

[Deaths: Final Data for 2011](#) (see Technical Notes)

## Introduction

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

*Birth cohort data* - The numerator of the 2011 birth cohort linked file consists of deaths to infants born in 2011 linked to their corresponding birth certificates, whether the death occurred in 2011 or 2012. The denominator for this data set is all births occurring in 2011.

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 2011 birth cohort linked file includes two data files. The first file includes linked birth and death certificate data for all US infants born in 2011 who died before their first birthday - referred to as the numerator file. The second file is the 2011 NCHS natality file for the US with a few minor modifications - referred to as the denominator-plus 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](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](http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm) .

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

As a result of the delayed, phased transition to the 2003 U.S. Standard Certificate of Live Birth, the 2011 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 [2011 Natality User Guide](#)). Although many data items are comparable across certificate revisions and are available for the entire United States, many items have more limited reporting areas. 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. Reporting flag codes are 0 (item reported in neither the current or previous year), 1 (item reported in both current and previous year), 2 (item reported in the previous but not in the current year), and 3 (item reported in the current but not in the previous year). When using these data, select reporting flag=1 to get valid and complete data for an item (see SAS code examples below).

*Translating "blanks"* - In the 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 2011 cohort data for the month prenatal care began for the states that implemented the revised birth certificate by January 1<sup>st</sup> 2011.

#### Sample SAS program

```
01 DATA work;
02     INFILE 'C:\VS11LKBC.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:\VS11LKBC.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 2011](#) and [Deaths: Final Data for 2011](#).

## 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.

## 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.

### **Percent of Records Linked**

The 2011 cohort linked file for the 50 States and D.C. includes 23,568 linked infant death records and 294 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 23,862.

### **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 2011 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, 2011. NCHS Instruction Manual, Part 2a. Hyattsville, Maryland: Public Health Service.
- B. National Center for Health Statistics. Vital statistics, Instructions for Classifying Multiple Cause-of-Death, 2011. NCHS Instruction Manual, Part 2b. Hyattsville, Maryland: Public Health Service.
- C. National Center for Health Statistics. Vital statistics, ICD-10 ACME Decision Tables for Classifying Underlying Causes-of-Death, 2010. 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 2011. NCHS Instruction Manual Part 11. Hyattsville, Maryland: Public Health Service.

Instruction manuals are available at:

[http://www.cdc.gov/nchs/nvss/instruction\\_manuals.htm](http://www.cdc.gov/nchs/nvss/instruction_manuals.htm)

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

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

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

# **2011 Cohort Linked File Public Use Layout**

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
1-6	6	FILLER	<b>Filler</b>				
7	1	VERSION	<b>Version</b>		U,R	R U	State used the 2003 version of the US Standard Birth Certificate (Revised) State used the 1989 version of the US Standard Birth Certificate (Unrevised)
8	1	FILLER	<b>Filler</b>				
9	1	LATEREC	<b>Late Record Flag</b>		U,R	0 1	Not late record Late record
10-14	5	SEQNUM	<b>Infant Death Number</b> This number uniquely identifies the same infant in the numerator and denominator-plus files.			00001-nnnnn	
15-18	4	DOB_YY	<b>Birth Year</b>		U,R	2011	2011
19-20	2	DOB_MM	<b>Birth Month</b>		U,R	01 02 03 04 05 06 07 08 09 10 11 12	January February March April May June July August September October November December
21-24	4	FILLER	<b>Filler</b>				
25-28	4	DOB_TT	<b>Birth Time</b>	c571	R	0000-2359 9999	Time of Birth Not Stated
29	1	DOB_WK	<b>Weekday</b>		U,R	1 2 3 4	Sunday Monday Tuesday Wednesday

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

R 2003 Version of US Standard Birth Certificate

U 1989 Version of US Standard Birth Certificate

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

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

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						5	Thursday
						6	Friday
						7	Saturday
30-31	2	OSTATE	<b>Occurrence Territory</b> (This item is available in the territory file only, geographic codes are not available in the U.S. file.)		U,R		
			<u>Territories</u>			GU	Guam
						PR	Puerto Rico
						VI	Virgin Islands
32-36	5	FILLER	<b>Filler</b>				
37-39	3	OCNTYFIPS	<b>Occurrence FIPS County</b> (This item is available in the territory file only, geographic codes are not available in the U.S. file.)		U,R	000-999	County of Occurrence
40	1	OCNTYPOP	<b>Occurrence County Pop</b> (This item is available in the territory file only, geographic codes are not available in the U.S. file.)		U,R	0 1 2 9	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County less than 250,000
41	1	BFACIL	<b>Birth Place (Revised)</b>	676	R	1 2 3 4 5 6 7 9	Hospital Freestanding Birth Center Home (intended) Home (not intended) Home (unknown if intended) Clinic / Doctor's Office Other Unknown
42	1	UBFACIL	<b>Birth Place</b>		U,R	1 2 3 4 5 9	Hospital Freestanding Birthing Center Clinic / Doctor's Office Residence Other Unknown

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

R 2003 Version of US Standard Birth Certificate

U 1989 Version of US Standard Birth Certificate

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

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



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

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

R 2003 Version of US Standard Birth Certificate

U 1989 Version of US Standard Birth Certificate

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

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

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						37	37 years
						38	38 years
						39	39 years
						40	40 years
						41	41 years
						42	42 years
						43	43 years
						44	44 years
						45	45 years
						46	46 years
						47	47 years
						48	48 years
						49	49 years
						50	50 -64 years
91-92	2	MAGER14	<b>Mother's Age Recode 14</b>		U,R	01	Under 15 Years
						03	15 years
						04	16 years
						05	17 years
						06	18 years
						07	19 years
						08	20-24 years
						09	25-29 years
						10	30-34 years
						11	35-39 years
						12	40-44 years
						13	45-49 years
						14	50-64 years
93	1	MAGER9	<b>Mother's Age Recode 9</b>		U,R	1	Under 15 years
						2	15-19 years
						3	20-24 years
						4	25-29 years
						5	30-34 years
						6	35-39 years
						7	40-44 years
						8	45-49 years
						9	50-64 years
94-95	2	MBCNTRY	<b>Mother's Birth Country</b>		R,u	AA-ZZ	See Geographic Documentation

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

R 2003 Version of US Standard Birth Certificate

U 1989 Version of US Standard Birth Certificate

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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
			(This item is available in the territory file only, geographic codes are not available in the U.S. file.)				
96-108	13	FILLER	<b>Filler</b>				
109-110	2	MRSTATEPSTL	<b>Mother's Residence Postal State</b> (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	<b>Filler</b>				
114-116	3	MRCNTY	<b>Mother's County of Residence</b> (This item is available in the territory file only, geographic codes are not available in the U.S. file.)		R,u	001-999 000	See Geographic Tables Foreign
117-131	15	FILLER	<b>Filler</b>				
132	1	RCNTY_POP	<b>Population of Residence County</b> (This item is available in the territory file only, geographic codes are not available in the U.S. file.)		U,R	0 1 2 9 Z	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County less than 250,000 Foreign resident
133-136	4	FILLER	<b>Filler</b>				
137	1	RECTYPE	<b>Record Type</b> (This item is available in the territory file only, geographic codes are not available in the U.S. file.)		U,R	1 2	RESIDENT: State and county of occurrence and residence NONRESIDENT: State and county of occurrence and residence are different.
138	1	RESTATUS	<b>Residence Status</b> <u>United States</u>		U,R	1	RESIDENT: State and county of occurrence and residence

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
							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>Territories</u>			1	RESIDENT: State and county of occurrence and residence are the same. (Unique to Guam, all US residents are considered residents of Guam and thus are assigned 1.)
						2	INTRATERRITORY NONRESIDENT: Territory of occurrence and residence are the same but county is different.
						2	INTERTERRITORY RESIDENT: Territory of occurrence and residence are different but both are US Territories.
						3	FOREIGN RESIDENT: The residence is not a US Territory.
139-140	2	MBRACE	<b>Mother's Bridged Race</b> <u>United States and non Puerto Rican Territories</u> Includes only states reporting multiple race. Codes 01-14 used for individuals reporting only one race. Codes 21-24 used for individuals reporting more than one race that have been bridged to a single race. Code 24 also used for individuals reporting more than one Asian/Pacific Islander group.		R**	01 02 03 04 05 06 07 08 09 10 11 12 13 14 21 22 23 24 Blank	White – single race Black – single race American Indian – single race Asian Indian – single race Chinese – single race Filipino – single race Japanese – single race Korean – single race Vietnamese – single race Other Asian – single race Hawaiian – single race Guamanian – single race Samoan – single race Other Pacific Islander – single race White – bridged multiple race Black – bridged multiple race American Indian & Alaskan Native – bridged multiple race Asian / Pacific Islander – bridged multiple race Not on certificate

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
			<u>Puerto Rico</u>			01	White
						02	Black
						00	Other
141-142	2	MRACE	<b>Mother's Race</b>	650 (API groups)	U		
			<u>United States</u>			01	White
						02	Black
						03	American Indian or Alaskan Natives
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						18	Asian Indian
						28	Korean
						38	Samoan
						48	Vietnamese
						58	Guamanian
						68	Other Asian or Pacific Islander in areas reporting codes 18-58.
						78	Combined other Asian or Pacific Islander, includes 18-68 for areas that do not report them separately.
			<u>Puerto Rico</u>			01	White
						02	Black
						00	Other races
			<u>Guam</u>			01	White
						02	Black
						03	American Indian or Alaskan Natives
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						58	Guamanian
			<u>All other Territories</u>			01	White
						02	Black
						03	American Indian or Alaskan Natives

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
143	1	MRACEREC	<b>Mother's Race Recode</b>		U,R		
			<u>United States and non-Puerto Rican Territories</u>			1	White
						2	Black
						3	American Indian / Alaskan Native
						4	Asian / Pacific Islander
			<u>Puerto Rico</u>			1	White
						2	Black
						0	Other (not classified as White or Black)
144	1	MRACEIMP	<b>Mother's Race Imputed</b>		U,R	Blank	Mother's race not imputed
						1	Unknown race imputed
						2	All other races, formerly coded 09, imputed.
145-147	3	FILLER	<b>Filler</b>				
148	1	UMHISP	<b>Mother's Hispanic Origin</b>				
				569	U,R	0	Non-Hispanic
						1	Mexican
						2	Puerto Rican
						3	Cuban
						4	Central or South American
						5	Other and Unknown Hispanic
						9	Origin unknown or not stated
149	1	MRACEHISP	<b>Mother's Race/Hispanic Origin</b>				
				569	U,R	1	Mexican
						2	Puerto Rican
						3	Cuban
						4	Central or South American
						5	Other and Unknown Hispanic
						6	Non-Hispanic White
						7	Non-Hispanic Black
						8	Non-Hispanic Other Races

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						9	Origin unknown or not stated
150-151	2	FILLER	<b>Filler</b>				
152	1	MAR_P	<b>Paternity Acknowledged</b>	653	R	Y N U X	Yes No Unknown Not Applicable
153	1	MAR	<b>Mother's Marital Status</b>	652	U,R		
			<u>United States &amp; all non-Puerto Rican Territories</u>			1 2 9	Yes No Unknown or not Stated
			<u>Puerto Rico</u>			1 2 3 9	Yes Unmarried parents living together Unmarried parents not living together Unknown or not stated
154	1	MAR_IMP	<b>Mother's Marital Status Imputed</b>		U,R	Blank 1	Marital Status not imputed Marital Status imputed
155	1	MEDUC	<b>Mother's Education –Revised</b>	571	R	1 2 3 4 5 6 7 8 9	8 <sup>th</sup> grade or less 9 <sup>th</sup> through 12 <sup>th</sup> grade with no diploma High school graduate or GED completed Some college credit, but not a degree. Associate degree (AA,AS) Bachelor's degree (BA, AB, BS) Master's degree (MA, MS, MEng, MEd, MSW, MBA) Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD) Unknown
156-174	19	FILLER	<b>Filler</b>				
175	1	FAGERPT_FLG	<b>Father's Reported Age Used</b>		U,R	Blank 1	Father's reported age not used Father's reported age used
176-181	6	FILLER	<b>Filler</b>				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
182-183	2	FAGECOMB	<b>Father's Combined Age (Revised)</b> c571		R	09-98 99	Father's combined age in years Unknown or not stated
184-185	2	UFAGECOMB	<b>Father's Combined Age (Unrevised)</b>		U	10-98 99	Father's combined age in years Unknown or not stated
186-187	2	FAGEREC11	<b>Father's Age Recode 11</b>		U,R	01 02 03 04 05 06 07 08 09 10 11	Under 15 years 15-19 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years 45-49 years 50-54 years 55-98 years Not stated
188-189	2	FBRACE	<b>Father's Bridged Race</b> <u>United States and non Puerto Rican Territories</u> Includes only states reporting multiple race. Codes 01-14 used for individuals reporting only one race. Codes 21-24 used for individuals reporting more than one race that have been bridged to a single race. Code 24 also used for individuals reporting more than one Asian/Pacific Islander group.		R,u	01 02 03 04 05 06 07 08 09 10 11 12 13 14 21 22 23 24 99 Blank	White – single race Black – single race American Indian – single race Asian Indian – single race Chinese – single race Filipino – single race Japanese – single race Korean – single race Vietnamese – single race Other Asian – single race Hawaiian – single race Guamanian – single race Samoan – single race Other Pacific Islander – single race White – bridged multiple race Black – bridged multiple race American Indian & Alaskan Native – bridged multiple race Asian / Pacific Islander – bridged multiple race Unknown or not stated, also includes states not reporting multiple race Not on certificate

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
			<u>Puerto Rico</u>			01 02 00 99	White Black Other Unknown or not stated
190	1	FILLER	<b>Filler</b>				
191	1	FRACEREC	<b>Father's Race Recode</b>		U,R		
			<u>United States and non-Puerto Rican Territories</u>			1 2 3 4 9	White Black American Indian or Alaskan Native Asian or Pacific Islander Unknown or not stated
			<u>Puerto Rico</u>			1 2 9 0	White Black Unknown or not stated Other (not classified as White or Black)
192-194	3	FILLER	<b>Filler</b>				
195	1	UFHISP	<b>Father's Hispanic Origin</b>	570	U,R	0 1 2 3 4 5 9	Non-Hispanic Mexican Puerto Rican Cuban Central or South American Other and Unknown Hispanic Origin unknown or not stated
196	1	FRACEHISP	<b>Father's Race/Hispanic Origin</b>	570	U,R	1 2 3 4 5 6 7 8 9	Mexican Puerto Rican Cuban Central or South American Other and Unknown Hispanic Non-Hispanic White Non-Hispanic Black Non-Hispanic Other Races Origin unknown or not stated
197	1	FEDUC	<b>Father's Education</b>	572	R	1	8 <sup>th</sup> grade or less

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						2	9 <sup>th</sup> through 12 <sup>th</sup> grade with no diploma
						3	High school graduate or GED completed
						4	Some college credit, but not a degree.
						5	Associate degree (AA,AS)
						6	Bachelor's degree (BA, AB, BS)
						7	Master's degree (MA, MS, MEng, MEd, MSW, MBA)
						8	Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD)
						9	Unknown
198	1	FILLER	<b>Filler</b>				
199-200	2	UFTRACE	<b>Father's Race (Unrevised)</b>		U		
			<u>United States</u>			01	White
						02	Black
						03	American Indian & Alaskan Natives
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						18	Asian Indian
						28	Korean
						38	Samoan
						48	Vietnamese
						58	Guamanian
						68	Other Asian or Pacific Islander in areas reporting codes 18-58.
						78	Combined other Asian or Pacific Islander, includes 18-68 for areas that do not report them separately.
						99	Unknown or not stated
			<u>Puerto Rico</u>			01	White
						03	Black
						00	Other races not classified white or black
						99	Unknown or not stated
			<u>Guam</u>			01	White
						02	Black
						03	American Indian & Alaskan Natives

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						58	Guamanian
						99	Unknown or not stated
			<u>All other Territories</u>			01	White
						02	Black
						03	American Indian & Alaskan Natives
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						99	Unknown or not stated
201-207	7	FILLER	<b>Filler</b>				
208-209	2	PRIORTERM	<b>Prior Other Terminations</b>		U,R	00-30	Number other terminations
						99	Unknown or not stated
210-211	2	FILLER	<b>Filler</b>				
212	1	LBO_REC	<b>Live Birth Order Recode</b>		U,R	1-7	Number of live birth order.
						8	8 or more live births
						9	Unknown or not stated
213-216	4	FILLER	<b>Filler</b>				
217	1	TBO_REC	<b>Total Birth Order Recode</b>		U,R	1-7	Number of total birth order.
						8	8 or more total births
						9	Unknown or not stated
218-244	27	FILLER	<b>Filler</b>				
245-246	2	PRECARE	<b>Month Prenatal Care Began (Revised)</b>				
			668		R	00	No prenatal care
						01-10	Month prenatal care began
						99	Unknown or not stated

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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
280	1	DFPC_IMP	<b>Day of Date First Prenatal Care Imputed</b>		R	Blank 1	Day of date first prenatal care not imputed Day of date first prenatal care imputed
281	1	WIC	<b>WIC</b>	579	R	Y N U	Yes No Unknown or not stated
282-283	2	CIG_0	<b>Cigarettes Before Pregnancy</b>	672	R	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
284-285	2	CIG_1	<b>Cigarettes 1<sup>st</sup> Trimester</b>	575	R	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
286-287	2	CIG_2	<b>Cigarettes 2<sup>nd</sup> Trimester</b>	575	R	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
288-289	2	CIG_3	<b>Cigarettes 3<sup>rd</sup> Trimester</b>	575	R	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
290-293	4	FILLER	<b>Filler</b>				
294	1	CIG_REC	<b>Cigarette Recode (Revised)</b>	575	R	Y N U	Yes No Unknown or not stated
295-312	18	FILLER	<b>Filler</b>				
313-321	9	<b><u>Risk Factors (Revised)</u></b>			R		
			The checkbox items indented below follow this code structure:			Y N U	Yes No Unknown or not stated
313	1	RF_DIAB	<b>Prepregnancy Diabetes</b>	582			
314	1	RF_GEST	<b>Gestational Diabetes</b>	583			
315	1	RF_PHYP	<b>Prepregnancy Hypertension</b>	584			
316	1	RF_GHYP	<b>Gestational Hypertension</b>	585			

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
317	1	RF_ECLAM	<b>Hypertension Eclampsia</b>	586			
318	1	RF_PPTERM	<b>Previous Preterm Birth</b>	587			
319	1	RF_PPOUTC	<b>Poor Pregnancy Outcome</b>	588			
320	1	FILLER	<b>Filler</b>				
321	1	RF_INFTR	<b>Infertility Treatment</b>	590			
322	1	RF_FEDRG	<b>Fertility Enhancing Drugs</b>	591	R	Y N X U	Yes No Not applicable Unknown or not stated
323	1	RF_ARTEC	<b>Asst. Reproductive Technology</b>	592	R	Y N X U	Yes No Not applicable Unknown or not stated
324	1	RF_CESAR	<b>Previous Cesareans</b>	593	R	Y N U	Yes No Unknown or not stated
325-326	2	RF_CESARN	<b>Previous Cesareans Num</b>	594	R	00 01-30 99	None Number of previous cesareans Unknown or not stated
327-330	4	FILLER	<b>Filler</b>				
331-337	7	<b><u>Risk Factors</u></b>			U,R		
			The checkbox items indented below follow this structure:			1 2 9	Yes No Unknown
331	1	URF_DIAB	<b>Diabetes</b>	684			
332-334	3	FILLER	<b>Filler</b>				
335	1	URF_CHYPER	<b>Cronic Hypertension</b>	688			
336	1	URF_PHYPER	<b>Prepregnacny Associated Hypertension</b>	689			
337	1	URF_ECLAM	<b>Eclampsia</b>	690			
338-344	7	FILLER	<b>Filler</b>				
345-350	6	<b><u>Infections Present</u></b>			R		
			The checkbox items indented below follow this structure:			Y N	Yes No

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						U	Unknown or not stated
345	1	IP_GONN	<b>Gonorrhea</b>	595			
346	1	IP_SYPH	<b>Syphilis</b>	596			
347	1	FILLER	<b>Filler</b>				
348	1	IP_CHLAM	<b>Chlamydia</b>	598			
349	1	IP_HEPB	<b>Hepatitis B</b>	599			
350	1	IP_HEPC	<b>Hepatitis C</b>	600			
351-354	4	<b><u>Obstetric Procedures (Revised)</u></b>			R		
		The checkbox items indented below follow this structure:				Y	Yes
						N	No
						U	Unknown or not stated
351	1	OP_CERV	<b>Cervical Cerclage</b>	601			
352	1	OP_TOCOL	<b>Tocolysis</b>	602			
353	1	OP_ECVS	<b>Successful External Cephalic Version</b>	603			
354	1	OP_ECVF	<b>Failed External Cephalic Version</b>	604			
355-356	2	FILLER	<b>Filler</b>				
357-359	3	<b><u>Obstetric Procedures</u></b>			U,R		
		The checkbox items indented below follow this structure:				1	Yes
						2	No
						8	Not on certificate
						9	Unknown or not stated
357	1	UOP_INDUC	<b>Induction of Labor</b>	703			
358	1	FILLER	<b>Filler</b>				
359	1	UOP_TOCOL	<b>Tocolysis</b>	705			
360-361	2	FILLER	<b>Filler</b>				
362-364	3	<b><u>Onset of Labor</u></b>			R		
		The checkbox items indented below follow this structure:				Y	Yes
						N	No
						U	Unknown or not stated
362	1	ON_RUPTR	<b>Premature Rupture of Membrane</b>	605			
363	1	ON_PRECIP	<b>Precipitous Labor</b>	606			
364	1	ON_PROL	<b>Prolonged Labor</b>	607			
365-373	9	<b><u>Characteristics of Labor and Delivery (Revised)</u></b>			R		
		The checkbox items indented below follow this structure:				Y	Yes
						N	No
						U	Unknown or not stated
365	1	LD_INDL	<b>Induction of Labor</b>	608			
366	1	LD_AUGM	<b>Augmentation of Labor</b>	609			
367	1	FILLER	<b>Filler</b>				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
368	1	LD_STER	<b>Steroids</b>	611			
369	1	LD_ANTI	<b>Antibiotics</b>	612			
370	1	LD_CHOR	<b>Chorioamnionitis</b>	613			
371	1	LD_MECS	<b>Meconium Staining</b>	614			
372	1	LD_FINT	<b>Fetal Intolerance</b>	615			
373	1	LD_ANES	<b>Anesthesia</b>	616			
374	1	FILLER	<b>Filler</b>				
375-384	10	<b><u>Complications of Labor and Delivery</u></b>			U,R		
		The checkbox items indented below follow this structure:				1	Yes
						2	No
375	1	ULD_MECO	<b>Meconium</b>	712		8	Not on certificate
376-380	5	FILLER	<b>Filler</b>			9	Unknown or not stated
381	1	ULD_PRECIP	<b>Precipitous Labor</b>	718			
382-383	2	FILLER	<b>Filler</b>				
384	1	ULD_BREECH	<b>Breech</b>	721			
385-391	7	FILLER	<b>Filler</b>				
392-394	3	<b><u>Method of Delivery (Revised)</u></b>					
392	1	ME_PRES	<b>Fetal Presentation</b>	619	R	1	Cephalic
						2	Breech
						3	Other
						9	Unknown or not stated
393	1	ME_ROUT	<b>Route &amp; Method of Delivery</b>	620	R	1	Spontaneous
						2	Forceps
						3	Vacuum
						4	Cesarean
						9	Unknown or not stated
394	1	ME_TRIAL	<b>Trial of Labor Attempted</b>	621	R	Y	Yes
						N	No
						X	Not applicable
						U	Unknown or not stated
395-398	4	FILLER	<b>Filler</b>				

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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
411	1	MTRAN	<b>Mother Transferred</b>	c571	R	Y N U	Yes No Unknown
412	1	PAY	<b>Payment Source</b>	580	R	1 2 3 4 5 6 8 9	Medicaid Private Insurance Self-Pay Indian Health Service CHAMPUS/TRICARE Other Government (Federal, State, Local) Other Unknown
413	1	PAYR	<b>Payment Recode</b>	678	R	1 2 3 4 9	Medicaid Private Insurance Self Pay Other Unknown
414	1	FILLER	<b>Filler</b>				
415	2	APGAR5	<b>Five Minute APGAR Score</b>	574	U,R	00-10 99	A score of 0-10 Unknown or not stated
417	1	APGAR5R	<b>Five Minute APGAR Recode</b>	574	U,R	1 2 3 4 5	A score of 0-3 A score of 4-6 A score of 7-8 A score of 9-10 Unknown or not stated
418	2	APGAR10	<b>Ten Minute APGAR Score</b>	c579	R	00-10 88 99	A score of 0-10 Not applicable Unknown or not stated
420	1	APGAR10R	<b>Ten Minute APGAR Recode</b>	c579	R	1 2 3 4	A score of 0-3 A score of 4-6 A score of 7-8 A score of 9-10

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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
446-447	2	ESTGEST	<b>Obstetric/Clinical Gestation Est.</b>	573	U,R	17-47 99	17 <sup>th</sup> through 47 <sup>th</sup> week of gestation Unknown or not stated
448-450	3	FILLER	<b>Filler</b>				
451-452	2	COMBGEST	<b>Gestation – Detail in Weeks</b>	670	U,R	17-47 99	17 <sup>th</sup> through 47 <sup>th</sup> week of Gestation Unknown
453-454	2	GESTREC10	<b>Gestation Recode 10</b>		U,R	01 02 03 04 05 06 07 08 09 10 99	Under 20 weeks 20-27 weeks 28-31 weeks 32-33 weeks 34-36 weeks 37-38 weeks 39 weeks 40 weeks 41 weeks 42 weeks and over Unknown
455	1	GESTREC3	<b>Gestation Recode 3</b>		U,R	1 2 3	Under 37 weeks 37 weeks and over Not stated
456	1	OBGEST_FLG	<b>Clinical Estimate of Gestation Used Flag</b>		U,R	Blank 1	Clinical Estimate is not used Clinical Estimate is used
457	1	GEST_IMP	<b>Gestation Imputed Flag</b>		U,R	Blank 1	Gestation is not imputed Gestation is imputed
458-466	9	FILLER	<b>Filler</b>				
467-470	4	BRTHWGT	<b>Imputed Birth Weight</b>		U,R	0227-8165 9999	Number of grams Not stated birth weight
471-472	2	BWTR14	<b>Birth Weight Recode 14</b>		U,R	01 02 03 04	227- 499 grams 500 – 749 grams 750 - 999 grams 1000 - 1249 grams

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						05	1250 – 1499 grams
						06	1500 – 1999 grams
						07	2000 – 2499 grams
						08	2500 – 2999 grams
						09	3000 – 3400 grams
						10	3500 – 3999 grams
						11	4000 – 4499 grams
						12	4500 – 4999 grams
						13	5000 – 8165 grams
						14	Not Stated
473	1	BWTR4	<b>Birth Weight Recode 4</b>		U,R	1	227- 1499 grams
						2	1500 – 2499 grams
						3	2500 - 8165 grams
						4	Unknown or not stated
474-475	2	FILLER	<b>Filler</b>				
476-482	7		<b><u>Abnormal Conditions of the Newborn (Revised)</u></b> The checkbox items indented below follow this structure:		R	Y	Yes, Complication reported
						N	No Complication reported
						U	Unknown or not stated
						Blank	Not on Certificate
476	1	AB_AVEN1	<b>Assisted Ventilation</b>	628			
477	1	AB_AVEN6	<b>Assisted Ventilation &gt; 6 hrs</b>	629			
478	1	AB_NICU	<b>Admission to NICU</b>	630			
479	1	AB_SURF	<b>Surfactant</b>	631			
480	1	AB_ANTI	<b>Antibiotics</b>	632			
481	1	AB_SEIZ	<b>Seizures</b>	633			
482	1	AB_BINJ	<b>Birth Injury</b>	634			
483-491	9	FILLER	<b>Filler</b>				
492-503	12		<b><u>Congenital Anomalies of the Newborn (Revised)</u></b> The checkbox items indented below follow this structure:		R	Y	Yes, anomaly reported
						N	No, anomaly not reported
						U	Unknown
						Blank	Not on certificate
492	1	CA_ANEN	<b>Anencephaly</b>	635			
493	1	CA_MNSB	<b>Meningomyelocele / Spina Bifida</b>	636			
494	1	CA_CCHD	<b>Cyanotic Congenital Heart Disease</b>	637			
495	1	CA_CDH	<b>Congenital Diaphragmatic Hernia</b>	638			
496	1	CA_OMP	<b>Omphalocele</b>	639			

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
497	1	CA_GAST	<b>Gastrochisis</b>	640			
498	1	CA_LIMB	<b>Limb Reduction Defect</b>	641			
499	1	CA_CLEFT	<b>Cleft Lip w/ or w/o Cleft Palate</b>	642			
500	1	CA_CLPAL	<b>Cleft Palate alone</b>	643			
501	1	CA_DOWN	<b>Downs Syndrome</b>	644	R	C P N U Blank	Confirmed Pending No Unknown Not on certificate
502	1	CA_DISOR	<b>Suspected Chromosomal Disorder</b>	645	R	C P N U Blank	Confirmed Pending No Unknown Not on certificate
503	1	CA_HYPO	<b>Hypospadias</b>	646	R	Y N U Blank	Yes, anomaly reported No, anomaly not reported Unknown Not on certificate
504-523	20	<b><u>Congenital Anomalies of the Newborn</u></b> The checkbox items indented below follow this structure:			U,R	1 2 9 Blank	Anomaly reported Anomaly not reported Anomaly not classifiable Not on certificate
504	1	UCA_ANEN	<b>Anencephalus</b>	752			
505	1	UCA_SPINA	<b>Spina Bifida / Meningocele</b>	753			
506-512	7	FILLER	<b>Filler</b>				
513	1	UCA_OMPHA	<b>Omphalocele / Gastroschisis</b>	760			
514-517	4	FILLER	<b>Filler</b>				
518	1	UCA_CELFTLP	<b>Cleft Lip / Palate</b>	765			
519-520	2	FILLER	<b>Filler</b>				
521	1	UCA_HERNIA	<b>Diaphragmatic Hernia</b>	769			
522	1	FILLER	<b>Filler</b>				
523	1	UCA_DOWNS	<b>Downs Syndrome</b>	771			
524-525	2	FILLER	<b>Filler</b>				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
526	1	ITRAN	<b>Infant Transferred</b>	c571	R	Y N U	Yes No Unknown or not stated
527	1	ILIVE	<b>Infant Living at Time of Report</b>	c571	R	Y N U	Yes No Unknown or not stated
528	1	BFED	<b>Infant Being Breastfed</b>	581	R	Y N U	Yes No Unknown or not stated
529-532	4	FILLER	<b>Filler</b>				
533	1	BMI_R	<b>Body Mass Index Recode (prepregnancy)</b>	576	R	1 2 3 4 5 6 9	Underweight <18.5 Normal 18.5-24.9 Overweight 25.0-29.9 Obesity I 30.0-34.9 Obesity II 35.0-39.9 Extreme Obesity III ≥40 Unknown or not stated
534-536	3	ILLB_R	<b>Interval of Last Live Birth Recode</b>	c571	R	000-003 004-300 888 999	Plural delivery Months since last live birth Not applicable / 1 <sup>st</sup> live birth Unknown or not stated
537-538	2	ILLB_R11	<b>Interval of Last Live Birth Recode 11</b>	c571	R	00 01 02 03 04 05 06 07 08 88 99	Zero to 3 months (plural delivery) 4-11 months 12-17 months 18-23 months 24-35 months 36-47 months 48-59 months 60-71 months 72 months and over Not applicable (1 <sup>st</sup> live birth) Unknown or not stated
539-541	3	ILOP_R	<b>Interval of Last Other Pregnancy</b>		R	000-003	Plural delivery

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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						99	Unknown or not stated
557	1	SetOrder_R	<b>Set Order Recode</b>	c571	R	1 2 3 4 5 9	1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> to 16 <sup>th</sup> Unknown or not stated
558-568	11	FILLER	<b>Filler</b>				
569-771	203	<b><u>Flag File for Reporting Flags</u></b>					
		The reporting flags indented below follow this coding structure:				0 1 2 3	Not reported either year Reported both years Reported in 2008/Not reported in 2009 Not reported in 2008/Reported in 2009
569	1	F_MORIGIN	Origin of Mother		U,R		
570	1	F_FORIGIN	Origin of Father		U,R		
571	1	F_MEDUC	Education of Mother		R		
572	1	F_FEDUC	Education of Father		R		
573	1	F_CLINEST	Clinical Estimate of Gestation		U,R		
574	1	F_APGAR5	Five minute APGAR		U,R		
575	1	F_TOBACO	Tobacco use		R		
576	1	F_M_HT	Mother's Height		R		
577	1	F_PWGT	Prepregnancy Weight		R		
578	1	F_DWGT	Weight at Delivery		R		
579	1	F_WIC	WIC		R		
580	1	F_PAY	Source of Payment		R		
581	1	F_BFED	Breastfed at Discharge		R		
582	1	F_RF_PDIAB	Prepregnancy Diabetes		R		
583	1	F_RF_GDIAB	Gestational Diabetes		R		
584	1	F_RF_PHYPER	Prepregnancy Hypertension		R		
585	1	F_RF_GHYPER	Gestational Hypertension		R		
586	1	F_RF_ECLAMP	Hypertension Eclampsia		R		
587	1	F_RF_PPB	Previous Preterm Birth		R		
588	1	F_RF_PPO	Poor Pregnancy outcomes		R		
589	1	FILLER	<b>Filler</b>				
590	1	F_RF_INFT	Infertility Treatment		R		
591	1	F_RF_INFT_DRG	Fertility Enhance Drugs		R		
592	1	F_RF_INF_ART	Reproductive Technology		R		

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
593	1	F_RF_CESAR	Previous Cesarean		R		
594	1	F_RF_NCESAR	Number of Previous Cesareans		R		
595	1	F_IP_GONOR	Gonorrhea		R		
596	1	F_IP_SYPH	Syphilis		R		
597	1	FILLER	<b>Filler</b>				
598	1	F_IP_CHLAM	Chlamydia		R		
599	1	F_IP_HEPATB	Hepatitis B		R		
600	1	F_IP_HEPATC	Hepatitis C		R		
601	1	F_OB_CERVIC	Cervical Cerclage		R		
602	1	F_OB_TOCO	Tocolysis		R		
603	1	F_OB_SUCC	Successful External Cephalic Version		R		
604	1	F_OB_FAIL	Failed External Cephalic Version		R		
605	1	F_OL_RUPTURE	Premature Rupture of the Membranes		R		
606	1	F_OL_PRECIP	Precipitous Labor		R		
607	1	F_OL_PROLONG	Prolonged Labor		R		
608	1	F_LD_INDUCT	Induction of Labor		R		
609	1	F_LD_AUGMENT	Augmentation of Labor		R		
610	1	FILLER	<b>Filler</b>				
611	1	F_LD_STERIODS	Steroids		R		
612	1	F_LD_ANTIBIO	Antibiotics		R		
613	1	F_LD_CHORIO	Chorioamnionitis		R		
614	1	F_LD_MECON	Meconium Staining		R		
615	1	F_LD_FINTOL	Fetal Intolerance		R		
616	1	F_LD_ANESTH	Anesthesia		R		
617-8	2	FILLER	<b>Filler</b>				
619	1	F_MD_PRESENT	Fetal Presentation		R		
620	1	F_MD_ROUTE	Final Route and Method of Delivery		R		
621	1	F_MD_TRIAL	Trial of Labor Attempted		R		
622	1	F_MM_MTRANS	Maternal Transfusion		R		
623	1	F_MM_LACER	Perineal Laceration		R		
624	1	F_MM_RUPTUR	Ruptured Uterus		R		
625	1	F_MM_UHYSTR	Unplanned Hysterectomy		R		
626	1	F_MM_ICU	Admission to Intensive Care		R		
627	1	F_MM_OR	Unplanned Operating Room Procedure		R		
628	1	F_AB_VENT	Assisted Ventilation		R		
629	1	F_AB_VENT6	Assisted Ventilation >6 hrs		R		
630	1	F_AB_NIUC	Admission to NICU		R		
631	1	F_AB_SURFAC	Surfactant		R		
632	1	F_AB_ANTIBIO	Antibiotics		R		
633	1	F_AB_SEIZ	Seizures		R		

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
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 with or without Cleft Palate		R		
643	1	F_CA_CLEFT	Cleft Plate Alone		R		
644	1	F_CA_DOWNS	Down Syndrome		R		
645	1	F_CA_CHROM	Suspected Chromosomal Disorder		R		
646	1	F_CA_HYPOS	Hypospadias		R		
647	1	FILLER	<b>Filler</b>				
648	1	F_WTGAIN	Weight Gain		U,R		
649-651	3	FILLER	<b>Filler</b>				
652	1	F_MAR_G	Mother's Marital Status		R		
653	1	F_MAR_P	Paternity Acknowledged		R		
654-667	14	FILLER	<b>Filler</b>				
668	1	F_MPCB	Month Prenatal Care Began		R		
669-670	2	FILLER	<b>Filler</b>				
671	1	F_TPCV	Total Number of Prenatal Visits		U,R		
672	1	F_CIGS_0	Cigarettes before Pregnancy		R		
673	1	F_CIGS_1	Cigarettes 1 <sup>st</sup> Trimester		R		
674	1	F_CIGS_2	Cigarettes 2 <sup>nd</sup> Trimester		R		
675	1	F_CIGS_3	Cigarettes 3 <sup>rd</sup> Trimester		R		
676	1	F_FACILITY	Facility		R		
677	1	FILLER	<b>Filler</b>				
678	1	F_PAY_REC	Payment Recode		R		
679	1	F_RD METH_REC	Method of Delivery		R		
680-683	4	FILLER	<b>Filler</b>				
684	1	F_URF_DIABETES	Diabetes		U,R		
685-687	3	FILLER	<b>Filler</b>				
688	1	F_URF_CHYPER	Chronic Hypertension		U,R		
689	1	F_URF_PHYPER	Prepregnancy Hypertension		U,R		
690	1	F_URF_ECLAMP	Eclampsia		U,R		
691-702	12	FILLER	<b>Filler</b>				
703	1	F_UOB_INDUCT	Induction		U,R		
704	1	FILLER	<b>Filler</b>				
705	1	F_UOB_TOCOL	Tocolysis		U,R		

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706-711	6	FILLER	<b>Filler</b>				
712	1	F_ULD_MECONIUM	Meconium		U,R		
713-717	5	FILLER	<b>Filler</b>				
718	1	F_ULD_PRECIP	Precipitous Labor		U,R		
719-720	2	FILLER	<b>Filler</b>				
721	1	F_ULD_BREECH	Breech		U,R		
722-733	12	FILLER	<b>Filler</b>				
734	1	F_U_FORCEP	Forceps		U,R		
735	1	F_U_VACUUM	Vacuum		U,R		
736-751	16	FILLER	<b>Filler</b>				
752	1	F_UCA_ANEN	Anencephalus		U,R		
753	1	F_UCA_SPINA	Spina Bifida		U,R		
754-760	7	FILLER	<b>Filler</b>				
761	1	F_UCA_OMPHALO	Omphalocele/Gastroschisis		U,R		
762-765	4	FILLER	<b>Filler</b>				
766	1	F_UCA_CLEFTLP	Cleft Lip/Palate		U,R		
767-768	2	FILLER	<b>Filler</b>				
769	1	F_UCA_HERNIA	Hernia		U,R		
770	1	FILLER	<b>Filler</b>				
771	1	F_UCA_DOWNS	Downs Syndrome		U,R		
772-867	96	FILLER	<b>Filler</b>				
868	1	FLGND	Flag indicating records in both numerator and denominator file			1 Blank	Record in both files Record not in both files
869-871	3	FILLER	<b>Filler</b>				
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	Age 1 year and over or not stated Under 1 hour (includes not stated hours and minutes) 1 – 23 hours

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						03	1 day (includes not stated days)
						04	2 days
						05	3 days
						06	4 days
						07	5 days
						08	6 days
						09	7 days (includes not stated weeks)
						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	<b>Filler</b>				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
882	1	PLACE	Place of injury for causes W00-Y34, except Y06.- and Y07.-			0 1 1 2 3 4 5 6 7 8 Blank	Home Residential institution School, other institution and public administrative area Sports and athletics area Street and highway Trade and service area Industrial and construction area Farm Other Specified Places Unspecified place Cause other than W00-Y34, except Y06.- and Y07.-
883	1	FILLER	<b>Filler</b>				
884-891			<b><u>UNDERLYING CAUSE OF DEATH</u></b>				
884-887	4	UC0D	ICD Code (10 <sup>th</sup> Revision) See the <u>International Classification of Diseases</u> , 1992 Revision, Volume 1.				
888	1	FILLER	<b>Filler</b>				
889-891	3	UCODR130	130 Infant Cause Recode			001-158	Code Range
892	1	FILLER	<b>Filler</b>				
893-900	8	RECWT	Record Weight (no weights computed for possessions file)			1.XXXXXX	

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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
901-902	2	FILLER	<b>Filler</b>				
903-1148	246	<b><u>MULTIPLE CONDITIONS</u></b>					
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 <sup>th</sup> position will be blank. Records that do not have 20 conditions are blank in the unused area.				
			Position 1:	Part/line number on certificate			
			1	...	Part I, line 1 (a)		
			2	...	Part I, line 2 (b)		
			3	...	Part I, line 3 (c)		
			4	...	Part I, line 4 (d)		
			5	...	Part I, line 5 (e)		
			6	...	Part II,		
			Position 2:	Sequence of condition within part/line			
			1-7	...	Code range		
			Position 3 – 6: Condition code				
			See ICD-10 for a complete list of codes				
905-911	7		1 <sup>st</sup> Condition				
912-918	7		2 <sup>nd</sup> Condition				
919-925	7		3 <sup>rd</sup> Condition				
926-932	7		4 <sup>th</sup> Condition				
933-939	7		5 <sup>th</sup> Condition				
940-946	7		6 <sup>th</sup> Condition				
947-953	7		7 <sup>th</sup> Condition				
954-960	7		8 <sup>th</sup> Condition				
961-967	7		9 <sup>th</sup> Condition				
968-974	7		10 <sup>th</sup> Condition				
975-981	7		11 <sup>th</sup> Condition				
982-988	7		12 <sup>th</sup> Condition				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
989-995	7		13 <sup>th</sup> Condition				
996-1002	7		14 <sup>th</sup> Condition				
1003-1009	7		15 <sup>th</sup> Condition				
1010-1016	7		16 <sup>th</sup> Condition				
1017-1023	7		17 <sup>th</sup> Condition				
1024-1030	7		18 <sup>th</sup> Condition				
1031-1037	7		19 <sup>th</sup> Condition				
1038-1044	7		20 <sup>th</sup> Condition				
1045-1046	2	FILLER	<b>Filler</b>				
1047-1048	2	RANUM	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 <sup>th</sup> position will be blank. Records that do not have 20 conditions are blank in the unused area.  Positions 1 – 4: Condition Code See ICD-10 for a complete list of codes				
1049-1053	5		1 <sup>st</sup> Condition				
1054-1058	5		2 <sup>nd</sup> Condition				
1059-1063	5		3 <sup>rd</sup> Condition				
1064-1068	5		4 <sup>th</sup> Condition				
1069-1073	5		5 <sup>th</sup> Condition				
1074-1078	5		6 <sup>th</sup> Condition				
1079-1083	5		7 <sup>th</sup> Condition				
1084-1088	5		8 <sup>th</sup> Condition				
1089-1093	5		9 <sup>th</sup> Condition				
1094-1098	5		10 <sup>th</sup> Condition				
1099-1103	5		11 <sup>th</sup> Condition				
1104-1108	5		12 <sup>th</sup> Condition				
1109-1113	5		13 <sup>th</sup> Condition				
1114-1118	5		14 <sup>th</sup> Condition				
1119-1123	5		15 <sup>th</sup> Condition				
1124-1128	5		16 <sup>th</sup> Condition				
1129-1133	5		17 <sup>th</sup> Condition				
1134-1138	5		18 <sup>th</sup> Condition				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
1139-1143	5		19 <sup>th</sup> Condition				
1144-1148	5		20 <sup>th</sup> Condition				
1149-1150	2	FILLER	<b>Filler</b>				
1151	1	D_RESTATUS	<u>Death Resident Status</u>				
			United States Occurrence			1	RESIDENTS State and County of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS State of Occurrence and Residence are the same, but County is different.
						3	INTERSTATE NONRESIDENTS State of Occurrence and Residence are different, but both are in the U.S.
						4	FOREIGN RESIDENTS State of Occurrence is one of the 50 States or the District of Columbia, but Place of Residence is outside of the U.S.
			Puerto Rico Occurrence			1	RESIDENTS Territory and County-equivalent of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS Territory of Occurrence and Residence are the same, but County-equivalent is different.
						3	INTERTERRITORY NONRESIDENTS Territory of occurrence and residence are different, but both are a Territory.
						4	FOREIGN RESIDENTS Occurred in Puerto Rico to a resident of any other place.
			Virgin Islands Occurrence			1	RESIDENTS Territory and County-equivalent of Occurrence and Residence are the same.
						2	INTRASTATE NONRESIDENTS Territory of Occurrence and Residence are the same, but County-equivalent is different.
						3	INTERTERRITORY NONRESIDENTS

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
							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	<u>State of Occurrence (FIPS) of Death</u> (This item is available in the territory file only, geography codes are not available in the US file.)			PR VI GU	Puerto Rico Virgin Islands Guam
1154-1156	3	CNTOCFIPD	<u>County of Occurrence (FIPS) of Death</u> Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State and identify each county. (Note: To uniquely identify a county, both the state and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document. (This item is available in the territory file only, geography codes are not available in the US file.)			001-nnn	Code range
1157-1159	3	FILLER	<b>Filler</b>				
1160-1161	2	STRESFIPD	<u>State of Residence (FIPS)</u> (This item is available in the territory file only, geography codes are not available in the US file.)				
			Territories			PR VI GU	Puerto Rico Virgin Islands Guam

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
			Foreign residents			CC MX CU YY	Canada Mexico Cuban Remainder of world
			Puerto Rico Occurrence			PR US,ZZ	Puerto Rico Foreign residents
			Virgin Islands Occurrence			VI US, ZZ	Virgin Islands Foreign residents
			Guam Occurrence			GU US ZZ	Guam U.S. resident. Also considered a resident of Guam. Foreign residents
1162-1163	2	FILLER	<b>Filler</b>				
1164-1165	2	DRCNTY	<u>State/Country of Residence of Death Recode</u> (This item is available in the territory file only, geography codes are not available in the US file.)				
			Territorial residents			PR VI GU	Puerto Rico Virgin Islands Guam
			Foreign residents			CC MX CU YY	Canada Mexico Cuba Remainder of the world
			Puerto Rico Occurrence			PR US,ZZ	Puerto Rico Foreign residents
			Virgin Islands Occurrence			VI US,ZZ	Virgin Islands Foreign residents
			Guam Occurrence			GU US ZZ	Guam U.S. resident. Also considered a resident of Guam. Foreign residents

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
1166-1168	3	CNTYRFPD	<u>County of Residence (FIPS) of Death</u> This item is available in the territory file only, geography codes are not available in the US file.			000 001-999	Foreign residents Code range County less than 250,000 population
1169-1181	13	FILLER	<b>Filler</b>				
1182	1	CNTRSPPD	<u>Population Size of County of Residence of Death</u> This item is available in the territory file only, geography codes are not available in the US file.			0 1 2 9 Z	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County of less than 250,000 Foreign residents
1183-1185	3	FILLER	<b>Filler</b>				
1186	1	HOSPD	<u>Place of Death and Decedent's Status</u>			1 2 3 4 5 6 7 9	Hospital, clinic or Medical Center – Inpatient Hospital, clinic or Medical Center – Outpatient or admitted to Emergency Room Hospital, clinic or Medical Center – Dead on Arrival Decedent's home Hospice facility Nursing home/long term care Other Place of death unknown
1187	1	WEEKDAYD	<u>Day of Week of Death</u>			1 2 3 4 5 6 7 9	Sunday Monday Tuesday Wednesday Thursday Friday Saturday Unknown
1188-1191	4	DTHYR	<u>Death Year</u>			2011 2012	2011 2012

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

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                                    Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and over  
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                                    7 = 10 years and over

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

130          S Limited

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

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

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130	S Limited	
Recode	T Sex Age	Cause Title and ICD-10 Codes Included
056		Influenza (J10-J11)
057		Pneumonia (J12-J18)
058		Acute bronchitis and acute bronchiolitis (J20-J21)
059		Bronchitis, chronic and unspecified (J40-J42)
060		Asthma (J45-J46)
061		Pneumonitis due to solids and liquids (J69)
062		Other and unspecified diseases of respiratory system (J22,J30-J39,J43-J44,J47-J68,J70-J98)
063	1	Diseases of the digestive system (K00-K92)
064		Gastritis, duodenitis, and noninfective enteritis and colitis (K29,K50-K55)
065		Hernia of abdominal cavity and intestinal obstruction without hernia (K40-K46,K56)
066		All other and unspecified diseases of digestive system (K00-K28,K30-K38,K57-K92)
067	1	Diseases of the genitourinary system (N00-N95)
068		Renal failure and other disorders of kidney (N17-N19,N25,N27)
069		Other and unspecified diseases of genitourinary system (N00-N15,N20-N23,N26,N28-N95)
070	1	Certain conditions originating in the perinatal period (P00-P96)
071	1	Newborn affected by maternal factors and by complications of pregnancy, labor and delivery (P00-P04)
072		Newborn affected by maternal hypertensive disorders (P00.0)
073		Newborn affected by other maternal conditions which may be unrelated to present pregnancy (P00.1-P00.9)
074	1	Newborn affected by maternal complications of pregnancy (P01)
075		Newborn affected by incompetent cervix (P01.0)
076		Newborn affected by premature rupture of membranes (P01.1)
077		Newborn affected by multiple pregnancy (P01.5)
078		Newborn affected by other maternal complications of pregnancy (P01.2-P01.4,P01.6-P01.9)
079	1	Newborn affected by complications of placenta, cord and membranes (P02)
080		Newborn affected by complications involving placenta (P02.0-P02.3)
081		Newborn affected by complications involving cord (P02.4-P02.6)
082		Newborn affected by chorioamnionitis (P02.7)
083		Newborn affected by other and unspecified abnormalities of membranes (P02.8-P02.9)
084		Newborn affected by other complications of labor and delivery (P03)
085		Newborn affected by noxious influences transmitted via placenta or breast milk (P04)
086	1	Disorders related to length of gestation and fetal malnutrition (P05-P08)
087		Slow fetal growth and fetal malnutrition (P05)
088	1	Disorders related to short gestation and low birthweight, not elsewhere classified (P07)
089		Extremely low birthweight or extreme immaturity (P07.0,P07.2)
090		Other low birthweight or preterm (P07.1,P07.3)
091		Disorders related to long gestation and high birthweight (P08)
092		Birth trauma (P10-P15)
093	1	Intrauterine hypoxia and birth asphyxia (P20-P21)
094		Intrauterine hypoxia (P20)
095		Birth asphyxia (P21)
096		Respiratory distress of newborn (P22)
097	1	Other respiratory conditions originating in the perinatal period (P23-P28)
098		Congenital pneumonia (P23)
099		Neonatal aspiration syndromes (P24)
100		Interstitial emphysema and related conditions originating in the perinatal period (P25)
101		Pulmonary hemorrhage originating in the perinatal period (P26)
102		Chronic respiratory disease originating in the perinatal period (P27)
103		Atelectasis (P28.0-P28.1)
104		All other respiratory conditions originating in the perinatal period (P28.2-P28.9)
105	1	Infections specific to the perinatal period (P35-P39)
106		Bacterial sepsis of newborn (P36)
107		Omphalitis of newborn with or without mild hemorrhage (P38)

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



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

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

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

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

Documentation Table 1. Live births and infant death by state of occurrence of birth and by state of residence at birth, 2011: (Residence of birth is of the Mother)

State	Live Births		Infant Deaths				Infant Mortality Rate
	Occurrence	Residence	Unweighted		Weighted 1/		
			Occurrence	Residence	Occurrence	Residence	
United States	3961221	3953591	23568	23547	23862	23841	6.03
Alabama	57891	59354	473	492	474	493	8.31
Alaska	11339	11456	44	48	44	48	4.19
Arizona	86103	85543	520	515	525	520	6.08
Arkansas	37855	38715	262	276	266	280	7.23
California	503018	502120	2305	2302	2372	2369	4.72
Colorado	65514	65055	373	349	374	350	5.38
Connecticut	37988	37281	181	185	184	188	5.04
Delaware	11631	11257	92	93	92	93	8.26
Dist of Columbia	13836	9295	120	74	120	74	7.96
Florida	213716	213414	1399	1387	1402	1390	6.51
Georgia	133828	132409	900	884	905	889	6.71
Hawaii	18971	18956	87	89	90	92	4.85
Idaho	21859	22305	102	108	103	109	4.89
Illinois	157737	161312	1010	1059	1016	1065	6.60
Indiana	84582	83701	618	626	623	631	7.54
Iowa	38040	38214	177	190	177	190	4.97
Kansas	40472	39642	240	245	241	246	6.21
Kentucky	53344	55370	341	359	344	362	6.54
Louisiana	61983	61888	495	500	510	515	8.32
Maine	12564	12704	96	89	96	89	7.01
Maryland	70958	73093	464	497	465	498	6.81
Massachusetts	73499	73166	321	310	322	311	4.25
Michigan	113054	114008	752	753	755	756	6.63
Minnesota	68115	68409	323	312	323	312	4.56
Mississippi	38938	39860	321	347	321	347	8.71
Missouri	77136	76117	530	481	534	485	6.37
Montana	12018	12069	72	73	73	74	6.13
Nebraska	26095	25720	141	138	142	139	5.40
Nevada	35009	35296	185	188	187	190	5.38
New Hampshire	13080	12851	50	55	51	56	4.36
New Jersey	103033	105883	474	508	485	519	4.90
New Mexico	26414	27289	133	147	138	153	5.61
New York	119836	121918	653	684	660	691	5.67
New York City	123029	119395	555	528	555	528	4.42
North Carolina	121557	120389	870	866	872	868	7.21
North Dakota	10772	9527	68	63	68	63	6.61
Ohio	138581	137918	1109	1089	1125	1104	8.00
Oklahoma	51315	52272	349	361	354	366	7.00
Oregon	45480	45155	210	203	210	203	4.50
Pennsylvania	142527	143178	955	923	955	923	6.45
Rhode Island	11729	10960	77	70	77	70	6.39
South Carolina	54837	57393	387	406	392	411	7.16
South Dakota	12470	11846	83	77	83	77	6.50
Tennessee	84412	79588	639	578	642	581	7.30
Texas	384116	377445	2073	2039	2170	2134	5.65
Utah	52326	51223	284	276	284	276	5.39
Vermont	5702	6078	31	32	31	32	5.26
Virginia	101032	102652	671	685	673	687	6.69
Washington	86954	86976	397	399	400	402	4.62
West Virginia	20959	20717	137	138	138	139	6.71
Wisconsin	67255	67810	392	404	392	404	5.96
Wyoming	6712	7399	27	47	27	47	6.35
Foreign Residents	.	7630	.	21	.	21	2.75

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

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child: United States, 2011  
 [Rates are per 1,000 live births]

Race of mother and sex	Total	<500 grams	500-749 grams	750-999 grams	1000-1249 grams	1250-1499 grams	1500-1999 grams	2000-2499 grams	2500 grams or more	Not Stated
All races										
Both sexes										
Live births.....	3,953,591	6,573	10,236	11,338	13,318	16,293	62,585	200,608	3,630,952	1,688
Infant deaths.....	23,841	5,558	4,199	1,416	819	692	1,555	1,970	7,485	146
Infant Mortality Rate.....	6.03	845.58	410.22	124.89	61.50	42.47	24.85	9.82	2.06	86.49
Male										
Live births.....	2,024,052	3,328	5,090	5,945	6,796	8,193	30,465	91,950	1,871,388	897
Infant deaths.....	13,147	2,866	2,388	857	471	372	791	1,037	4,267	98
Infant Mortality Rate.....	6.50	861.18	469.16	144.15	69.31	45.40	25.96	11.28	2.28	109.25
Female										
Live births.....	1,929,539	3,245	5,146	5,393	6,522	8,100	32,120	108,658	1,759,564	791
Infant deaths.....	10,693	2,692	1,812	559	347	320	764	934	3,217	48
Infant Mortality Rate.....	5.54	829.58	352.12	103.65	53.20	39.51	23.79	8.60	1.83	60.68
Non-Hispanic White										
Both sexes										
Live births.....	2,146,567	2,431	3,934	4,800	5,978	7,705	30,575	97,144	1,993,109	891
Infant deaths.....	10,860	2,093	1,649	655	386	307	739	977	4,005	49
Infant Mortality Rate.....	5.06	860.96	419.17	136.46	64.57	39.84	24.17	10.06	2.01	54.99
Male										
Live births.....	1,102,161	1,243	1,962	2,511	3,045	3,869	14,831	44,312	1,029,933	455
Infant deaths.....	6,046	1,084	927	397	241	160	391	525	2,289	31
Infant Mortality Rate.....	5.49	872.08	472.48	158.10	79.15	41.35	26.36	11.85	2.22	68.13
Female										
Live births.....	1,044,406	1,188	1,972	2,289	2,933	3,836	15,744	52,832	963,176	436
Infant deaths.....	4,814	1,009	722	258	144	147	348	452	1,716	18
Infant Mortality Rate.....	4.61	849.33	366.13	112.71	49.10	38.32	22.10	8.56	1.78	*
Non-Hispanic Black										
Both sexes										
Live births.....	582,345	2,455	3,615	3,575	3,876	4,187	14,869	45,348	504,299	121
Infant deaths.....	6,571	2,012	1,341	398	219	163	369	450	1,568	49
Infant Mortality Rate.....	11.28	819.55	370.95	111.33	56.50	38.93	24.82	9.92	3.11	404.96
Male										
Live births.....	295,948	1,241	1,770	1,877	1,922	2,107	7,053	20,137	259,766	75
Infant deaths.....	3,594	1,037	776	238	114	91	178	244	879	37
Infant Mortality Rate.....	12.14	835.62	438.42	126.80	59.31	43.19	25.24	12.12	3.38	493.33

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child: United States, 2011  
 [Rates are per 1,000 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
<b>Female</b>										
Live births.....	286,397	1,214	1,845	1,698	1,954	2,080	7,816	25,211	244,533	46
Infant deaths.....	2,977	975	566	160	105	73	192	206	689	12
Infant Mortality Rate.....	10.39	803.13	306.78	94.23	53.74	35.10	24.56	8.17	2.82	*
<b>American Indian or Alaskan Native /1</b>										
<b>Both sexes</b>										
Live births.....	46,419	70	103	119	146	183	678	2,216	42,884	20
Infant deaths.....	385	62	47	15	11	6	27	32	175	9
Infant Mortality Rate.....	8.29	885.71	456.31	*	*	*	39.82	14.44	4.08	*
<b>Male</b>										
Live births.....	23,730	38	51	68	75	88	313	1,044	22,040	13
Infant deaths.....	208	37	24	8	4	5	12	16	96	5
Infant Mortality Rate.....	8.77	973.68	470.59	*	*	*	*	*	4.36	*
<b>Female</b>										
Live births.....	22,689	32	52	51	71	95	365	1,172	20,844	7
Infant deaths.....	177	25	23	6	7	1	15	16	79	4
Infant Mortality Rate.....	7.80	781.25	442.31	*	*	*	*	*	3.79	*
<b>Asian or Pacific Islander</b>										
<b>Both sexes</b>										
Live births.....	253,915	299	488	584	684	999	3,948	14,262	232,558	93
Infant deaths.....	1,111	263	214	63	35	40	85	87	315	9
Infant Mortality Rate.....	4.38	879.60	438.52	107.88	51.17	40.04	21.53	6.10	1.35	*
<b>Male</b>										
Live births.....	130,729	159	252	310	358	482	2,001	6,802	120,308	57
Infant deaths.....	618	140	125	36	20	19	42	37	191	7
Infant Mortality Rate.....	4.73	880.50	496.03	116.13	55.87	*	20.99	5.44	1.59	*
<b>Female</b>										
Live births.....	123,186	140	236	274	326	517	1,947	7,460	112,250	36
Infant deaths.....	493	123	89	27	14	20	44	50	124	2
Infant Mortality Rate.....	4.00	878.57	377.12	98.54	*	38.68	22.60	6.70	1.10	*
<b>Hispanic</b>										
<b>Both sexes</b>										
Live births.....	918,129	1,227	2,044	2,203	2,576	3,153	12,290	41,160	853,288	188
Infant deaths.....	4,686	1,043	899	275	161	172	328	413	1,379	17
Infant Mortality Rate.....	5.10	850.04	439.82	124.83	62.50	54.55	26.69	10.03	1.62	*

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child: United States, 2011  
 [Rates are per 1,000 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
<b>Male</b>										
Live births.....	468,150	596	1,020	1,155	1,360	1,608	6,180	19,428	436,711	92
Infant deaths.....	2,554	522	507	172	85	96	164	206	794	9
Infant Mortality Rate.....	5.46	875.84	497.06	148.92	62.50	59.70	26.54	10.60	1.82	*
<b>Female</b>										
Live births.....	449,979	631	1,024	1,048	1,216	1,545	6,110	21,732	416,577	96
Infant deaths.....	2,132	521	392	103	76	76	164	207	585	8
Infant Mortality Rate.....	4.74	825.67	382.81	98.28	62.50	49.19	26.84	9.53	1.40	*

\* Figure does not meet standard of reliability or precision: based on fewer than 20 deaths in the numerator

- Quantity zero

1/ Includes Aleut and Eskimos

Documentation Table 3. Live births, infant deaths, and infant mortality rates by race of mother and gestational age: United States, 2011  
 [Rates are per 1,000 live births]

	Gestation									
	Total	<28 Weeks	28-31 Weeks	32-33 Weeks	34-36 Weeks	37-39 Weeks	40 Weeks	41 Weeks	42 Weeks or more	Not Stated
<b>All Races</b>										
Live births.....	3,953,591	28,763	47,437	217,012	169,952	2,173,866	761,804	330,066	219,845	4,846
Infant deaths.....	23,841	10,727	1,894	2,320	934	5,188	1,343	665	545	226
Infant Mortality Rate.....	6.03	372.94	39.93	10.69	5.50	2.39	1.76	2.01	2.48	46.64
<b>Non-Hispanic White</b>										
Live births.....	2,146,567	11,226	21,884	105,930	86,111	1,172,550	431,701	191,934	122,851	2,380
Infant deaths.....	10,860	4,181	919	1,125	479	2,713	713	353	296	81
Infant Mortality Rate.....	5.06	372.44	41.99	10.62	5.56	2.31	1.65	1.84	2.41	34.03
<b>Non-Hispanic Black</b>										
Live births.....	582,345	9,879	11,966	44,639	31,059	317,653	97,071	39,578	29,672	828
Infant deaths.....	6,571	3,617	488	545	210	1,142	261	127	108	74
Infant Mortality Rate.....	11.28	366.13	40.78	12.21	6.76	3.60	2.69	3.21	3.64	89.37
<b>American Indian or Alaskan Native/1</b>										
Live births.....	46,419	315	664	3,016	2,262	24,116	8,679	3,992	3,296	79
Infant deaths.....	385	119	25	45	20	94	40	20	12	9
Infant Mortality Rate.....	8.29	377.78	37.65	14.92	8.84	3.90	4.61	5.01	*	*
<b>Asian or Pacific Islander</b>										
Live births.....	253,915	1,311	2,474	12,366	10,238	145,973	49,814	19,840	11,668	231
Infant deaths.....	1,111	518	95	107	40	220	68	30	21	11
Infant Mortality Rate.....	4.38	395.12	38.40	8.65	3.91	1.51	1.37	1.51	1.80	*
<b>Hispanic</b>										
Live births.....	918,129	5,824	10,330	50,649	40,081	510,690	173,284	74,248	52,243	780
Infant deaths.....	4,686	2,151	352	485	181	988	260	135	104	31
Infant Mortality Rate.....	5.10	369.33	34.08	9.58	4.52	1.93	1.50	1.82	1.99	39.74

-/ Quality Zero

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

1/ Includes Aleuts and Eskimos

Documentation Table 4. Infant deaths and infant mortality rates by age of death for top 10 causes of infant death: United States, 2011 Cohort Data

[Infant deaths are under 1 year. Neonatal deaths are under 28 days; early neonatal, 0-6 days; late neonatal, 7-27 days. Postneonatal deaths are 28 days to less than 12 months. Rates are per 100,000 live births]

Cause of death	Live Births	Total				
		Infant Deaths	Total Neonatal	Early Neonatal	Late Neonatal	Post-Neonatal
All Causes .....	3,953,591	23,841	16,060	12,956	3,104	7,781
		603.02	406.21	327.7	78.51	196.81
Congenital malformations (Q00-Q99).....		4,955	3,561	2,730	831	1,393
		125.33	90.07	69.05	21.02	35.23
Short gestation and low birthweight nec (P07).....		4,107	4,010	3,920	90	97
		103.88	101.43	99.15	2.28	2.45
Maternal complications of pregnancy (P01).....		1,597	1,589	1,561	27	8
		40.39	40.19	39.48	0.68	*
Sudden infant death syndrome (R95).....		1,848	177	29	148	1,671
		46.74	4.48	0.73	3.74	42.27
Accidents (unintentional injuries) (V01-X59).....		1,164	132	41	91	1,032
		29.44	3.34	1.04	2.30	26.1
Complications of placenta, cord, membranes (P02).....		990	976	950	26	14
		25.04	24.69	24.03	0.66	*
Bacterial sepsis of newborn (P36).....		536	511	231	281	24
		13.56	12.92	5.84	7.11	0.61
Respiratory distress of newborn (P22).....		524	514	409	105	9
		13.25	13.00	10.35	2.66	*
Diseases of the circulatory system (I00-I99).....		492	122	68	54	370
		12.44	3.09	1.72	1.37	9.36
Neonatal hemorrhage (P50-P52, P54).....		463	453	315	139	9
		11.71	11.46	7.97	3.52	*
All other causes.....		7,166	4,014	2,702	1,312	3,153
		181.25	101.53	68.34	33.19	79.75

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

/ Quantity zero.