

**Public Use
Data File
Documentation**

2015 Cohort Linked Birth/Infant Death Data Set

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Centers for Disease Control and Prevention
National Center for Health Statistics
Division of Vital Statistics

2015 Cohort Linked Birth/Infant Death Data Set

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[User guide for the 2015 Period Linked Birth/Infant Death Data Set](#)

[User's Guide for the 2015 Natality File](#)

[Deaths: Final Data for 2015](#) (see Technical Notes)

Introduction

This documentation is for the 2015 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 2015 period linked file consists of all infant deaths occurring in 2015 linked to their corresponding birth certificates, whether the birth occurred in 2014 or 2015. The denominator for this data set is all births occurring in 2015.

Birth cohort data - The numerator of the 2015 birth cohort linked file consists of deaths to infants born in 2015 linked to their corresponding birth certificates, whether the death occurred in 2015 or 2016. The denominator for this data set is all births occurring in 2015.

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 2015 birth cohort linked file includes two data files. The first file includes linked birth and death certificate data for all US infants born in 2015 who died before their first birthday - referred to as the numerator file. The second file is the 2015 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).

Where comparable, revised data are combined with data from the remaining reporting areas. (Revised data are denoted by "R;" unrevised data are denoted by "U" in the "Rev"

column of the documentation.) Where data for the 1989 and 2003 certificate revisions are not comparable (e.g., educational attainment of the mother), unrevised and revised data are given in separate fields in the data file.

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

Incomplete National Reporting - Using Reporting Flags

As a result of the delayed, phased transition to the 2003 U.S. Standard Certificate of Live Birth, the 2014 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 [2015 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 not reported in either the current or previous year), 1 (item reported in both current and 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 source of payment item. Accordingly, use of the reporting flag for this item will produce 2015 cohort data for the source of payment for the states that implemented the revised birth certificate by January 1st 2015.

Sample SAS program

```

DATA work;
INFILE 'C:\VS15LINK.USNUMPUB' LRECL=1743;
INPUT
RESTATUS 104
PAY      435
F_PAY    437 ;

IF restatus NE 4; /* exclude foreign residents */
IF F_pay = 1; /* select reporting area */
IF pay=. then pay=9; /*convert blanks into unknown category*/
RUN;

PROC FREQ data=work; TABLES PAY;
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).

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 2015](#) and [Deaths: Final Data for 2015](#).

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.

For cohort file use: When using the birth cohort file, we do not suggest applying the weight included in the file. Applying the weight in a cohort file would upweight the number of births and infant deaths, potentially making estimates less accurate than not accounting for the unlinked infant deaths.

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 2015 cohort linked file for the 50 States and D.C. includes 23,357 linked infant death records and 136 unlinked infant death records, a 99.4% linkage. Thirty-three states linked 100% of their infant death records.

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 2014 linked in this document also provide information on the source of data, coding procedures, quality of the data, etc.

- A. National Center for Health Statistics. Vital statistics, Instructions for Classifying the Underlying Cause-of-Death, ICD-10, 2015. NCHS Instruction Manual, Part 2a. Hyattsville, Maryland: Public Health Service.
- B. National Center for Health Statistics. Vital statistics, Instructions for Classifying Multiple Cause-of-Death, ICD-10, 2014. 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, 2014. NCHS Instruction Manual, Part 2c. Hyattsville, Maryland: Public Health Service.

- D. National Center for Health Statistics. Specifications for U.S. Standard Certificate of Birth – 2003 Revision. NCHS Instruction manual, Part 3A. Hyattsville, Maryland: Public Health Service.
- E. National Center for Health Statistics. Specifications for U.S. Standard Certificate of Death – 2003 Revision. NCHS Instruction manual, Part 4. Hyattsville, Maryland: Public Health Service.
- F. National Center for Health Statistics. Vital statistics, Computer Edits for Natality Data, Effective 1993. NCHS Instruction Manual Part 12. Hyattsville, Maryland: Public Health Service.
- G. National Center for Health Statistics. Vital statistics, Computer Edits for Mortality Data, Effective 2014. NCHS Instruction Manual Part 11. Hyattsville, Maryland: Public Health Service.

Instruction manuals are available at:

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

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

Underlying Cause of Death Data

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

For a given death, the underlying cause is selected from the condition or conditions recorded by the certifier in the cause-of-death section of the death certificate. NCHS is bound by international agreement to make the selection of the underlying cause through

the use of the ICD-10 classification structure, and the selection and modification rules contained in this revision of the ICD. Additional information on the underlying cause of death can be found at <http://www.cdc.gov/nchs/data/dvs/mort99doc.pdf> .

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

Multiple Cause of Death Data

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

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

Entity Axis Codes

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

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

1. Line indicator: The first byte represents the line of the death certificate on which the code appears. Six lines (1-6) are allowable with the fourth and fifth

denoting one or two written in “due to”s beyond the three lines provided in Part I of the U.S. standard death certificate. Line “6” represents Part II of the death certificate.

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

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

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

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

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

The main limitation of entity axis data is that it does not necessarily reflect the best code for a condition when considered within the context of the medical certification as a whole. As a result, certain entity codes can be misleading or even contradict other codes in the record. For example, category K80.2 is titled “Calculus of gallbladder without cholecystitis.” Within the framework of entity codes this is interpreted to mean that the codable entity itself contained no mention of cholecystitis rather than that cholecystitis was not mentioned anywhere on the record. Tabulation of records with a “K80.2” as a count of persons having Calculus of gallbladder without cholecystitis would therefore be erroneous.

This illustrates the fact that under entity coding the ICD-10 titles cannot be taken literally. The user should study the rules for entity coding as they relate to his/her research prior to use of entity data. The user is further cautioned that the inclusion notes in ICD-10 that relate to modifying and combining categories are seldom applicable to entity coding (except where provided in NCHS Instruction Manual Part 2b).

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

Record Axis Codes

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

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

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

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

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

3. Record Axis Applications. The record axis multiple cause data are the basis for NCHS core multiple cause tabulations. Location of codes is not relevant to this data, and conditions have been linked into the most meaningful categories for the certification. The most immediate consequence for the user is that the codes on the record already represent mention of a disease assignable to that particular ICD-10 category. This is in contrast to the entity code which is assigned each time such a disease is reported on

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

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

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

Additional Information

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

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

2015 Linked Public Use File Layout

Position	Len	File*	Field	Description	Flag Position	Values	Definition
1-7	7		FILLER	FILLER		Blank	
8	1		LATEREC	Late Record Flag		0, blank 1	Not late record Late record
9-12	4	P,G	DOB_YY	Birth Year		2015	
13-14	2	P,G	DOB_MM	Birth Month		01 02 03 04 05 06 07 08 09 10 11 12	January February March April May June July August September October November December
15-18	4		FILLER	FILLER		Blank	
19-22	4	P,G	DOB_TT	Time of Birth	126	0000-2359 9999	Time of Birth Not Stated
23	1	P,G	DOB_WK	Birth Day of Week		1 2 3 4 5 6 7	Sunday Monday Tuesday Wednesday Thursday Friday Saturday
24-31	8		FILLER	FILLER		Blank	
32	1	P,G	BFACIL	Birth Place (Revised) Revised data only. See field 1330 for national data.	33	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
33	1	P,G	F_BFACIL	Reporting Flag for Birth Place		0 1	Non-Reporting Reporting

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
34-49	16		FILLER	FILLER		Blank	
50	1	P,G	BFACIL3	Facility Recode		1 2 3	In Hospital Not in Hospital Unknown or Not Stated
51-72	22		FILLER	FILLER		Blank	
73	1	P,G	MAGEIMP	Mother's Age Imputed Due to missing data, age imputed.		Blank 1	Age not imputed Age imputed
74	1	P,G	MAGEREP	Reported Age of Mother Used Flag Due to missing date of birth, reported age used.		Blank 1	Reported age not used Reported age used
75-76	2	P,G	MAGER	Mother's Age Recode 41			12 10 – 12 years, 13 13 years, 14 14 years, 15 15 years, 16 16 years, 17 17 years, 18 18 years, 19 19 years, 20 20 years, 21 21 years, 22 22 years, 23 23 years, 24 24 years, 25 25 years, 26 26 years, 27 27 years, 28 28 years, 29 29 years, 30 30 years, 31 31 years, 32 32 years, 33 33 years, 34 34 years, 35 35 years, 36 36 years, 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 years and over
77-78	2	P,G	MAGER14	Mother's Age Recode 14		01 03 04 05 06 07 08 09 10 11 12 13 14	Under 15 Years 15 years 16 years 17 years 18 years 19 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years 45-49 years 50-54 years
79	1	P,G	MAGER9	Mother's Age Recode 9		1 2 3 4 5 6 7	Under 15 years 15-19 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						8	45-49 years
						9	50-54 years
80-83	4		FILLER	FILLER		Blank	
84	1	P,G	MBSTATE_REC	Mother's Nativity		1	Born in the U.S. (50 US States)
						2	Born outside the U.S. (includes possessions)
						3	Unknown or Not Stated
85-103	19		FILLER	FILLER		Blank	
104	1	P,G	RESTATUS	Residence Status			
				<u>United States</u>		1	RESIDENT: State and county of occurrence and residence are the same.
						2	INTRASTATE NONRESIDENT: State of occurrence and residence are the same but county is different.
						3	INTERSTATE NONRESIDENT: State of occurrence and residence are different but both are one of the 50 US states or District of Columbia.
						4	FOREIGN RESIDENT: The state of residence is not one of the 50 US states or District of Columbia.
				<u>U.S. 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.
						3	INTERTERRITORY RESIDENT: Territory of occurrence and residence are different but both are US Territories.
						4	FOREIGN RESIDENT: The residence is not a US Territory.
105-106	2	P,G	MRACE31	Mother's Race Recode 31			
				<u>United States and all Outlying Areas of the United States except Puerto Rico</u>		01	White (only) [only one race reported]
						02	Black (only)
						03	AIAN (American Indian or Alaskan Native) (only)
						04	Asian (only)
						05	NHOPI (Native Hawaiian or Other Pacific Islander) (only)
						06	Black and White
						07	Black and AIAN
						08	Black and Asian
						09	Black and NHOPI
						10	AIAN and White
						11	AIAN and Asian
						12	AIAN and NHOPI
						13	Asian and White

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						14	Asian and NHOPI
						15	NHOPI and White
						16	Black, AIAN, and White
						17	Black, AIAN, and Asian
						18	Black, AIAN, and NHOPI
						19	Black, Asian, and White
						20	Black, Asian, and NHOPI
						21	Black, NHOPI, and White
						22	AIAN, Asian, and White
						23	AIAN, NHOPI, and White
						24	AIAN, Asian, and NHOPI
						25	Asian, NHOPI, and White
						26	Black, AIAN, Asian, and White
						27	Black, AIAN, Asian, and NHOPI
						28	Black, AIAN, NHOPI, and White
						29	Black, Asian, NHOPI, and White
						30	AIAN, Asian, NHOPI, and White
						31	Black, AIAN, Asian, NHOPI, and White
107	1	P,G	MRACE6	Mother's Race Recode 6			
				<u>United States and all Outlying Areas</u>		1	White (only)
				<u>of the United States except Puerto</u>		2	Black (only)
				<u>Rico</u>		3	AIAN (only)
						4	Asian (only)
						5	NHOPI (only)
						6	More than one race
108-109	2	P,G	MRACE15	Mother's Race Recode 15			
				<u>United States and all Outlying Areas</u>		01	White (only)
				<u>of the United States except Puerto</u>		02	Black (only)
				<u>Rico</u>		03	AIAN (only)
						04	Asian Indian (only)
						05	Chinese (only)
						06	Filipino (only)
						07	Japanese (only)
						08	Korean (only)
						09	Vietnamese (only)
						10	Other Asian (only)
						11	Hawaiian (only)
						12	Guamanian (only)
						13	Samoan (only)
						14	Other Pacific Islander (only)
						15	More than one race
110	1	P,G	MBRACE	Bridged Race Mother			

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
				Includes individuals reporting only one race and individuals reporting more than one race bridged to a single race.			
				<u>United States and all Outlying Areas of the United States except Puerto Rico</u>		1	White
						2	Black
						3	American Indian or Alaskan Native
						4	Asian or Pacific Islander
				<u>Puerto Rico</u>		1	White
						2	Black
						0	Other (not classified as White or Black)
111	1	P,G	MRACEIMP	Mother's Race Imputed		Blank	Mother's race not imputed
						1	Unknown race imputed
						2	All other races, formerly coded 09, imputed.
112-114	3		FILLER	FILLER		Blank	
115	1	P,G	MHISP_R	Mother's Hispanic Origin Recode		0	Non-Hispanic
				116		1	Mexican
						2	Puerto Rican
						3	Cuban
						4	Central and South American
						5	Other and Unknown Hispanic origin
						9	Hispanic origin not stated
116	1	P,G	F_MHISP	Reporting Flag for Mother's Origin			See footnote
117	1	P,G	MRACEHISP	Mother's Race/Hispanic Origin		1	Non-Hispanic White (only)
				Based on single/multiple-race (fields 105-106, 107, and 108-109); for coding to create bridged-race categories (field 110) see "Coding for bridge-race and Hispanic origin categories" in the Detailed Technical Notes.		2	Non-Hispanic Black (only)
						3	Non-Hispanic AIAN (only)
						4	Non-Hispanic Asian (only)
						5	Non-Hispanic NHOPI (only)
						6	Non-Hispanic more than one race
						7	Hispanic
						8	Origin unknown or not stated

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
118	1		FILLER	FILLER		Blank	
119	1	P,G	MAR_P	Paternity Acknowledged	123	Y N U X	Yes No Unknown Not Applicable
120	1	P,G	DMAR	Marital Status			
				<u>United States and all Outlying Areas</u>		1	Married
				<u>Of the United States except Puerto Rico</u>		2	Unmarried
				<u>Rico</u>		9	Unknown, NS
				<u>Puerto Rico</u>		1	Yes
						2	Unmarried parents living together
						3	Unmarried parents not living together
						9	Unknown or not stated
121	1	P,G	MAR_IMP	Mother's Marital Status Imputed		Blank 1	Marital Status not imputed Marital Status imputed
122	1		FILLER	FILLER		Blank	
123	1	P,G	F_MAR_P	Reporting Flag for Paternity Acknowledged			See footnote
124	1	P,G	MEDUC	Mother's Education	126	1 2 3 4 5 6 7 8 9	8 th grade or less 9 th through 12 th grade with no diploma High school graduate or GED completed Some college credit, but not a degree. Associate degree (AA,AS) Bachelor's degree (BA, AB, BS) Master's degree (MA, MS, MEng, MEd, MSW, MBA) Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD) Unknown
125	1		FILLER	FILLER		Blank	
126	1	P,G	F_MEDUC	Reporting Flag for Education of Mother			See footnote
127-141	15		FILLER	FILLER		Blank	
142	1	P,G	FAGERPT_FLG	Father's Reported Age Used		Blank 1	Father's reported age not used Father's reported age used
143-146	4		FILLER	FILLER		Blank	
147-148	2	P,G	FAGECOMB	Father's Combined Age (Revised)		09-98	Father's combined age in years

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						99	Unknown or not stated
149-150	2	P,G	FAGE11	Father's Age Recode 11		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
151-152	2	P,G	FRACE31	Father's Race Recode 31		01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 99	White (only) [only one race reported] Black (only) AIAN (American Indian or Alaskan Native) (only) Asian (only) NHOPI (Native Hawaiian or Other Pacific Islander) (only) Black and White Black and AIAN Black and Asian Black and NHOPI AIAN and White AIAN and Asian AIAN and NHOPI Asian and White Asian and NHOPI NHOPI and White Black, AIAN, and White Black, AIAN, and Asian Black, AIAN, and NHOPI Black, Asian, and White Black, Asian, and NHOPI Black, NHOPI, and White AIAN, Asian, and White AIAN, NHOPI, and White AIAN, Asian, and NHOPI Asian, NHOPI, and White Black, AIAN, Asian, and White Black, AIAN, Asian, and NHOPI Black, AIAN, NHOPI, and White Black, Asian, NHOPI, and White AIAN, Asian, NHOPI, and White Black, AIAN, Asian, NHOPI, and White Unknown or Not Stated

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
153	1	P,G	FRACE6	Father's Race Recode 6		1 2 3 4 5 6 9	White (only) Black (only) AIAN (only) Asian (only) NHOPI (only) More than one race Unknown or Not Stated
154-155	2	P,G	FRACE15	Father's Race Recode 15		01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 99	White (only) Black (only) AIAN (only) Asian Indian (only) Chinese (only) Filipino (only) Japanese (only) Korean (only) Vietnamese (only) Other Asian (only) Hawaiian (only) Guamanian (only) Samoan (only) Other Pacific Islander (only) More than one race Unknown or Not Stated
156	1	P,G	FBRACE	Bridged Race Father Includes individuals reporting only one race and individuals reporting more than one race bridged to a single race.			
				<u>United States and all Outlying Areas of the United States except Puerto Rico</u>		1 2 3 4	White Black American Indian or Alaskan Native Asian or Pacific Islander
				<u>Puerto Rico</u>		1 2 0	White Black Other (not classified as White or Black)
157-159	3		FILLER	FILLER		Blank	
160	1	P,G	FHISP_R	Father's Hispanic Origin Recode		0 1 2 3 4	Non-Hispanic Mexican Puerto Rican Cuban Central and South American

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						5 9	Other and Unknown Hispanic origin Hispanic origin not stated
161	1	P,G	F_FHISP	Reporting Flag for Father's Origin			See footnote
162	1	P,G	FRACEHISP	Father's Race/Hispanic Origin Based on single/multiple-race (fields 151-152, 153, and 154-155); for coding to create bridged-race categories (field 156) see "Coding for bridge-race and Hispanic origin categories" in the Detailed Technical Notes		1 2 3 4 5 6 7 8 9	Non-Hispanic White (only) Non-Hispanic Black (only) Non-Hispanic AIAN (only) Non-Hispanic Asian (only) Non-Hispanic NHOPI (only) Non-Hispanic more than one race Hispanic Origin unknown or not stated Race unknown or not stated (Non-Hispanic)
163	1	P,G	FEDUC	Father's Education	165	1 2 3 4 5 6 7 8 9	8 th grade or less 9 th through 12 th grade with no diploma High school graduate or GED completed Some college credit, but not a degree. Associate degree (AA,AS) Bachelor's degree (BA, AB, BS) Master's degree (MA, MS, MEng, MEd, MSW, MBA) Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD) Unknown
164	1		FILLER	FILLER			Blank
165	1	P,G	F_FEDUC	Reporting Flag for Education of Father			See footnote
166-170	5		FILLER	FILLER			Blank
171-172	2	P,G	PRIORLIVE	Prior Births Now Living		00-30 99	Number of children still living from previous live births. Unknown or not stated
173-174	2	P,G	PRIORDEAD	Prior Births Now Dead		00-30 99	Number of children dead from previous live births. Unknown or not stated
175-176	2	P,G	PRIORTERM	Prior Other Terminations		00-30 99	Number other terminations Unknown or not stated
177-178	2		FILLER	FILLER			Blank
179	1	P,G	LBO_REC	Live Birth Order Recode		1-7 8 9	Number of live birth order. 8 or more live births Unknown or not stated

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
180-181	2		FILLER	FILLER		Blank	
182	1	P,G	TBO_REC	Total Birth Order Recode		1-7 8 9	Number of total birth order. 8 or more total births Unknown or not stated
183-197	15		FILLER	FILLER		Blank	
198-200	3	P,G	ILLB_R	Interval of Last Live Birth Recode 126		000-003 004-300 888 999	Plural delivery Months since last live birth Not applicable / 1 st live birth Unknown or not stated
201-202	2	P,G	ILLB_R11	Interval of Last Live Birth Recode 11 126		00 01 02 03 04 05 06 07 08 88 99	Zero to 3 months (plural delivery) 4 to 11 months 12 to 17 months 18 to 23 months 24 to 35 months 36 to 47 months 48 to 59 months 60 to 71 months 72 months and over Not applicable (1 st live birth) Unknown or not stated
203-205	3		FILLER	FILLER		Blank	
206-208	3	P,G	ILOP_R	Interval of Last Other Pregnancy Recode 126		000-003 004-300 888 999	Plural delivery Months since last live birth Not applicable / 1 st natality event Unknown or not stated
209-210	2	P,G	ILOP_R11	Interval of Last Other Pregnancy Recode 11 126		00 01 02 03 04 05 06 07 08 88 99	Zero to 3 months (plural delivery) 4 to 11 months 12 to 17 months 18 to 23 months 24 to 35 months 36 to 47 months 48 to 59 months 60 to 71 months 72 months and over Not applicable (1 st natality event) Unknown or not stated
211-213	3		FILLER	FILLER		Blank	

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
214-216	3	P,G	ILP_R	Interval of Last Pregnancy Recode		000-003 004-300 888 999	Plural delivery Months since last live birth Not applicable / no previous pregnancy Unknown or not stated
217-218	2	P,G	ILP_R11	Interval of Last Pregnancy Recode 11	126	00 01 02 03 04 05 06 07 08 88 99	Zero to 3 months (plural delivery) 4 to 11 months 12 to 17 months 18 to 23 months 24 to 35 months 36 to 47 months 48 to 59 months 60 to 71 months 72 months and over Not applicable (no previous pregnancy) Unknown or not stated
219-223	5		FILLER	FILLER		Blank	
224-225	2	P,G	PRECARE	Month Prenatal Care	226	00 01-10 99	No prenatal care Month prenatal care began Unknown or not stated
226	1	P,G	F_MPCB	Reporting Flag for Month Prenatal Care Began		0 1	Non-Reporting Reporting
227	1	P,G	PRECARE5	Month Prenatal Care Began Recode	226	1 2 3 4 5	1 st to 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated
228-237	10		FILLER	FILLER		Blank	
238-239	2	P,G	PREVIS	Number of Prenatal Visits (Revised)		00-98 99	Number of prenatal visits Unknown or not stated
240-241	2		FILLER	FILLER		Blank	
242-243	2	P,G	PREVIS_REC	Number of Prenatal Visits Recode	244	01 02 03 04	No visits 1 to 2 visits 3 to 4 visits 5 to 6 visits

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						05	7 to 8 visits
						06	9 to 10 visits
						07	11 to 12 visits
						08	13 to 14 visits
						09	15 to 16 visits
						10	17 to 18 visits
						11	19 or more visits
						12	Unknown or not stated
244	1	P,G	F_TPCV	Reporting Flag for Total Prenatal Care Visits			See footnote
245-250	6		FILLER	FILLER		Blank	
251	1	P,G	WIC	WIC	252	Y N U	Yes No Unknown or not stated
252	1	P,G	F_WIC	Reporting Flag for WIC			See footnote
253-254	2	P,G	CIG_0	Cigarettes Before Pregnancy	265	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
255-256	2	P,G	CIG_1	Cigarettes 1st Trimester	266	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
257-258	2	P,G	CIG_2	Cigarettes 2nd Trimester	267	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
259-260	2	P,G	CIG_3	Cigarettes 3rd Trimester	268	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
261	1	P,G	CIG0_R	Cigarettes Before Pregnancy Recode	265	0 1 2 3 4 5 6	Nonsmoker 1-5 6-10 11-20 21-40 41 or more Unknown or not stated
262	1	P,G	CIG1_R	Cigarettes 1st Trimester Recode	266	0 1 2	Nonsmoker 1-5 6-10

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						3	11-20
						4	21-40
						5	41 or more
						6	Unknown or not stated
263	1	P,G	CIG2_R	Cigarettes 2nd Trimester Recode		0	Nonsmoker
					267	1	1-5
						2	6-10
						3	11-20
						4	21-40
						5	41 or more
						6	Unknown or not stated
264	1	P,G	CIG3_R	Cigarettes 3rd Trimester Recode		0	Nonsmoker
					268	1	1-5
						2	6-10
						3	11-20
						4	21-40
						5	41 or more
						6	Not stated / Not on certificate
265	1	P,G	F_CIGS_0	Reporting Flag for Cigarettes before Pregnancy			See footnote
266	1	P,G	F_CIGS_1	Reporting Flag for Cigarettes 1st Trimester			See footnote
267	1	P,G	F_CIGS_2	Reporting Flag for Cigarettes 2nd Trimester			See footnote
268	1	P,G	F_CIGS_3	Reporting Flag for Cigarettes 3rd Trimester			See footnote
269	1	P,G	CIG_REC	Cigarette Recode (Revised)	270	Y	Yes
						N	No
						U	Unknown or not stated
270	1	P,G	F_TOBACO	Reporting Flag for Tobacco use			See footnote
271-279	9		FILLER	FILLER		Blank	
280-281	2	P,G	MHTR	Mother's Height in Inches (Recode)	282	30-78	Height in inches
						99	Unknown or not stated
282	1	P,G	F_M_HT	Reporting Flag for Mother's Height			See footnote
283-286	4	P,G	BMI	BMI	282	13.0-69.9	Body Mass Index
						99.9	Unknown or not stated
287	1	P,G	BMI_R	Body Mass Index Recode	282	1	Underweight <18.5

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						2	Normal 18.5-24.9
						3	Overweight 25.0-29.9
						4	Obesity I 35.0-39.9
						5	Obesity II 35.0-39.9
						6	Extreme Obesity III ≥ 40.0
						9	Unknown or not stated
288-291	4		FILLER	FILLER		Blank	
292-294	3	P,G	PWgt_R	Pre-pregnancy Weight Recode		075-375	Weight in pounds
					295	999	Unknown or not stated
295	1	P,G	F_PWGT	Reporting Flag for Pre-pregnancy Weight			See footnote
296-298	3		FILLER	FILLER		Blank	
299-301	3	P,G	DWgt_R	Delivery Weight Recode	303	100-400	Weight in pounds
						999	Unknown or not stated
302	1		FILLER	FILLER		Blank	
303	1	P,G	F_DWGT	Reporting Flag for Delivery Weight			See footnote
304-305	2	P,G	WTGAIN	Weight Gain	307	00-97	Weight gain in pounds
						98	98 pounds and over
						99	Unknown or not stated
306	1	P,G	WTGAIN_REC	Weight Gain Recode	307	1	Less than 11 pounds
						2	11 to 20 pounds
						3	21 to 30 pounds
						4	31 to 40 pounds
						5	41 to 98 pounds
						9	Unknown or not stated
307	1	P,G	F_WTGAIN	Reporting Flag for Weight Gain			See footnote
308-312	5		FILLER	FILLER		Blank	

The following checkbox fields 313-432 include data for revised states only. For national data for items that are comparable across revisions see fields 1330-1345.

313-338	30	<u>Risk Factors</u>					
313	1	P,G	RF_PDIAB	Pre-pregnancy Diabetes	319	Y	Yes
314	1	P,G	RF_GDIAB	Gestational Diabetes	320	N	No
315	1	P,G	RF_PHYPE	Pre-pregnancy Hypertension	321	U	Unknown or not stated

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
316	1	P,G	RF_GHYPE	Gestational Hypertension	322		
317	1	P,G	RF_EHYPE	Hypertension Eclampsia	323		
318	1	P,G	RF_PPB	Previous Preterm Birth	324		
319	1	P,G	F_RF_PDIAB	Reporting Flag for Pre-pregnancy Diabetes			See footnote
320	1	P,G	F_RF_GDIAB	Reporting Flag for Gestational Diabetes			
321	1	P,G	F_RF_PHYPE	Reporting Flag for Pre-pregnancy Hypertension			
322	1	P,G	F_RF_GHYPE	Reporting Flag for Gestational Hypertension			
323	1	P,G	F_RF_EHYPE	Reporting Flag for Hypertension Eclampsia			
324	1	P,G	F_RF_PPB	Reporting Flag for Previous Preterm Birth			
325	1	P,G	RF_INFT	Infertility Treatment		Y	Yes
				Use reporting flag in field 319 for 2015		N	No
						U	Unknown or not stated
326	1	P,G	RF_DRG	Fertility Enhancing Drugs	329	Y	Yes
						N	No
						X	Not applicable
						U	Unknown or not stated
327	1	P,G	RF_ART	Asst. Reproductive Technology	330	Y	Yes
						N	No
						X	Not applicable
						U	Unknown or not stated
328	1		FILLER	FILLER		Blank	
329	1	P,G	F_RF_DRG	Reporting Flag for Fertility Enhance Drugs			See footnote
330	1	P,G	F_RF_ART	Reporting Flag for Reproductive Technology			See footnote
331	1	P,G	RF_CESAR	Previous Cesareans	335	Y	Yes
						N	No
						U	Unknown or not stated
332-333	2	P,G	RF_CESARN	Number of Previous Cesareans	336	00	None
						01-30	Number of previous cesareans
						99	Unknown or not stated
334	1		FILLER	FILLER		Blank	
335	1	P,G	F_RF_CESAR	Reporting Flag for Previous Cesarean			See footnote
336	1	P,G	F_RF_NCESAR	Reporting Flag for Number of Previous Cesareans			See footnote
337	1	P,G	NO_RISKS	No Risk Factors Checked	126	1	True

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						0	False
						9	Not Reported
338-342	5		FILLER	Filler		Blank	
343-358	15		<u>Infections Present</u>				
343	1	P,G	IP_GON	Gonorrhea	348	Y	Yes
344	1	P,G	IP_SYPH	Syphilis	349	N	No
345	1	P,G	IP_CHLAM	Chlamydia	350	U	Unknown or not stated
346	1	P,G	IP_HEPB	Hepatitis B	351		
347	1	P,G	IP_HEPC	Hepatitis C	352		
348	1	P,G	F_IP_GON	Reporting Flag for Gonorrhea			See footnote
349	1	P,G	F_IP_SYPH	Reporting Flag for Syphilis			
350	1	P,G	F_IP_CHLAM	Reporting Flag for Chlamydia			
351	1	P,G	F_IP_HEPB	Reporting Flag for Hepatitis B			
352	1	P,G	F_IP_HEPC	Reporting Flag for Hepatitis C			
353	1	P,G	NO_INFEC	No Infections Checked	126	1	True
						0	False
						9	Not Reported
354-359	6		FILLER	FILLER		Blank	
360-370	12		<u>Obstetric Procedures</u>				
360	1	P,G	OB_SUCC	Successful External Cephalic Version	363	Y	Yes
						N	No
						U	Unknown or not stated
361	1	P,G	OB_FAIL	Failed External Cephalic Version	364	Y	Yes
						N	No
						U	Unknown or not stated
362	1		FILLER	FILLER		Blank	
363	1	P,G	F_OB_SUCC	Reporting Flag for Successful External Cephalic Version			See footnote
364	1	P,G	F_OB_FAIL	Reporting Flag for Failed External Cephalic Version			See footnote
365-371	7	P,G	SEQNUM_CO	Cohort Sequence Number Each record is assigned a unique number		0000001-nnnnnnn	
372-383	11		FILLER	FILLER		Blank	

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Position	Len	File*	Field	Description	Flag Position	Values	Definition
383-400	18	<u>Characteristics of Labor and Delivery</u>					
383	1	P,G	LD_INDL	Induction of Labor	389	Y	Yes
384	1	P,G	LD_AUGM	Augmentation of Labor	390	N	No
385	1	P,G	LD_STER	Steroids	391	U	Unknown or not stated
386	1	P,G	LD_ANTB	Antibiotics	392		
387	1	P,G	LD_CHOR	Chorioamnionitis	393		
388	1	P,G	LD_ANES	Anesthesia	394		
389	1	P,G	F_LD_INDL	Reporting Flag for Induction of Labor			See footnote
390	1	P,G	F_LD_AUGM	Reporting Flag for Augmentation of Labor			
391	1	P,G	F_LD_STER	Reporting Flag for Steroids			
392	1	P,G	F_LD_ANTB	Reporting Flag for Antibiotics			
393	1	P,G	F_LD_CHOR	Reporting Flag for Chorioamnionitis			
394	1	P,G	F_LD_ANES	Reporting Flag for Anesthesia			
395	1	P,G	NO_LBRDLV	No Characteristics of Labor Checked	126	1 0 9	True False Not Reported
396-400	5		FILLER	FILLER		Blank	
401-414	14	<u>Method of Delivery</u>					
401	1	P,G	ME_PRES	Fetal Presentation	404	1 2 3 9	Cephalic Breech Other Unknown or not stated
402	1	P,G	ME_ROUT	Final Route & Method of Delivery	405	1 2 3 4 9	Spontaneous Forceps Vacuum Cesarean Unknown or not stated
403	1	P,G	ME_TRIAL	Trial of Labor Attempted	406	Y N X U	Yes No Not applicable Unknown or not stated
404	1	P,G	F_ME_PRES	Reporting Flag for Fetal Presentation			See footnote
405	1	P,G	F_ME_ROUT	Reporting Flag for Final Route and Method of Delivery			See footnote
406	1	P,G	F_ME_TRIAL	Reporting Flag for Trial of Labor Attempted			See footnote

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition	
407	1	P,G	RDMETH_REC	Delivery Method Recode	409	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) C-section (unknown if previous c-section) Not stated	
408	1	P,G	DMETH_REC	Delivery Method Recode Combined		1 2 9	Vaginal C-Section Unknown	
409	1	P,G	F_DMETH_REC	Reporting Flag for Method of Delivery Recode			See footnote	
410-414	5		FILLER	FILLER		Blank		
415-432	18		<u>Maternal Morbidity</u>					
415	1	P,G	MM_MTR	Maternal Transfusion	421	Y	Yes	
416	1	P,G	MM_PLAC	Perineal Laceration	422	N	No	
417	1	P,G	MM_RUPT	Ruptured Uterus	423	U	Unknown or not stated	
418	1	P,G	MM_UHYST	Unplanned Hysterectomy	424			
419	1	P,G	MM_AICU	Admit to Intensive Care	425			
420	1		FILLER	FILLER		Blank		
421	1	P,G	F_MM_MTR	Reporting Flag for Maternal Transfusion			See footnote	
422	1	P,G	F_MM_PLAC	Reporting Flag for Perineal Laceration				
423	1	P,G	F_MM_RUPT	Reporting Flag for Ruptured Uterus				
424	1	P,G	F_MM_UHYST	Reporting Flag for Unplanned Hysterectomy				
425	1	P,G	F_MM_AICU	Reporting Flag for Admission to Intensive Care				
426	1		FILLER	FILLER		Blank		
427	1	P,G	NO_MMORB	No Maternal Morbidity Checked	126	1 0 9	True False Not Reported	
428-432	5		FILLER	FILLER		Blank		
433	1	P,G	ATTEND	Attendant		1 2 3 4 5	Doctor of Medicine (MD) Doctor of Osteopathy (DO) Certified Nurse Midwife (CNM) Other Midwife Other	

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						9	Unknown or not stated
434	1	P,G	MTRAN	Mother Transferred	126	Y N U	Yes No Unknown
435	1	P,G	PAY	Payment Source	437	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
436	1	P,G	PAY_REC	Payment Recode	438	1 2 3 4 9	Medicaid Private Insurance Self Pay Other Unknown
437	1	P,G	F_PAY	Reporting Flag for Source of Payment			See footnote
438	1	P,G	F_PAY_REC	Reporting Flag for Payment Recode			See footnote
439-443	5		FILLER	FILLER		Blank	
444-445	2	P,G	APGAR5	Five Minute APGAR Score	447	00-10 99	A score of 0-10 Unknown or not stated
446	1	P,G	APGAR5R	Five Minute APGAR Recode	447	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
447	1	P,G	F_APGAR5	Reporting Flag for Five minute APGAR			See footnote
448-449	2	P,G	APGAR10	Ten Minute APGAR Score Use reporting flag in field 126 for 2015		00-10 88 99	A score of 0-10 Not applicable Unknown or not stated
450	1	P,G	APGAR10R	Ten Minute APGAR Recode Use reporting flag in field 126 for 2015		1 2 3 4	A score of 0-3 A score of 4-6 A score of 7-8 A score of 9-10

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						5	Not stated/not applicable
451-453	3		FILLER	FILLER		Blank	
454	1	P,G	DPLURAL	Plurality Recode		1 2 3 4 5	Single Twin Triplet Quadruplet Quintuplet or higher
455	1		FILLER	FILLER		Blank	
456	1	P,G	IMP_PLUR	Plurality Imputed		Blank 1	Plurality is imputed Plurality is not imputed
457-458	2		FILLER	FILLER		Blank	
459	1	P,G	SETORDER_R	Set Order Recode	126	1 1 st , 2 2 nd , 3 3 rd , 4 4 th , 5 5 th to 16 th 9	Unknown or not stated
460-474	15		FILLER	FILLER		Blank	
475	1	P,G	SEX	Sex of Infant		M F	Male Female
476	1	P,G	IMP_SEX	Imputed Sex		Blank 1	Infant Sex not Imputed Infant Sex is Imputed
477-478	2	P,G	DLMP_MM	Last Normal Menses Month		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
479-480	2		FILLER	FILLER		Blank	
481-484	4	P,G	DLMP_YY	Last Normal Menses Year		nnnn 9999	Year of last normal menses Unknown or not stated

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
485-487	3		FILLER	FILLER		Blank	
488	1	P,G	COMBGST_IMP	Combined Gestation Imputed		Blank 1	Combined Gestation is not imputed Combined Gestation is imputed
489	1	P,G	OBGEST_FLG	Obstetric Estimate of Gestation Used Flag		Blank 1	Clinical Estimate is not used Clinical Estimate is used
490-491	2	P,G	COMBGEST	Combined Gestation – Detail in Weeks		17-47 99	17 th through 47 th week of Gestation Unknown
492-493	2	P,G	GESTREC10	Combined Gestation Recode 10		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
494	1	P,G	GESTREC3	Combined Gestation Recode 3		1 2 3	Under 37 weeks 37 weeks and over Not stated
495-497	3		FILLER	FILLER		Blank	
498	1	P,G	LMPUSED	Computed (LMP) Gestation Used Flag		Blank 1	LMP not used for gestation LMP used for gestation
499-500	2	P,G	OEGest_Comb	Obstetric Estimate Edited (NCHS Standard item)		17-47 99	Weeks of gestation Not stated
501-502	2	P,G	OEGest_R10	Obstetric Estimate Recode10 (NCHS Standard item)		01 02 03 04 05 06 07 08 09 10	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

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						99	Unknown
503	1	P,G	OEGest_R3	Obstetric Estimate Recode 3 (NCHS Standard Item)		1 2 3	Under 37 weeks 37 weeks and over Not stated
504-508	5		FILLER	FILLER		Blank	
509-510	2	P,G	BWTR14	Birth Weight Recode 14		01 02 03 04 05 06 07 08 09 10 11 12 13 14	227 - 499 grams 500 - 749 grams 750 - 999 grams 1000 - 1249 grams 1250 - 1499 grams 1500 - 1999 grams 2000 - 2499 grams 2500 - 2999 grams 3000 - 3499 grams 3500 - 3999 grams 4000 - 4499 grams 4500 - 4999 grams 5000 - 8165 grams Not Stated
511	1	P,G	BWTR4	Birth Weight Recode 4		1 2 3 4	227 - 1499 grams 1500 - 2499 grams 2500 - 8165 grams Unknown or not stated
512-515	4	P,G	BRTHWGT	Imputed Birthweight		0227- 8165 9999	Number of grams Not stated
516	1	P,G	BWTIMP	Birth Weight Imputed Flag		Blank 1	Birth Weight is not imputed Birth Weight is imputed

The following checkbox fields 517-566 include data for revised states only. For national data for items that are comparable across revisions see fields 1331-1345.

517-536	20	<u>Abnormal Conditions of the Newborn</u>						
	517	1	P,G	AB_AVEN1	Assisted Ventilation	524	Y	Yes
	518	1	P,G	AB_AVEN6	Assisted Ventilation > 6 hrs	525	N	No
	519	1	P,G	AB_NICU	Admission to NICU	526	U	Unknown or not stated
	520	1	P,G	AB_SURF	Surfactant	527		
	521	1	P,G	AB_ANTI	Antibiotics	528		

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition	
522	1	P,G	AB_SEIZ	Seizures	529			
523	1		FILLER	FILLER		Blank		
524	1	P,G	F_AB_AVEN1	Reporting Flag for Assisted Ventilation			See footnote	
525	1	P,G	F_AB_AVEN6	Reporting Flag for Assisted Ventilation >6 hrs 1				
526	1	P,G	F_AB_NICU	Reporting Flag for Admission to NICU				
527	1	P,G	F_AB_SURF	Reporting Flag for Surfactant				
528	1	P,G	F_AB_ANTI	Reporting Flag for Antibiotics				
529	1	P,G	F_AB_SEIZ	Reporting Flag for Seizures				
530	1		FILLER	FILLER		Blank		
531	1	P,G	NO_ABNORM	No Abnormal Conditions Checked	126	1 0 9	True False Not Reported	
532-536	5		FILLER	FILLER		Blank		
537-566	30		<u>Congenital Anomalies of the Newborn</u>					
537	1	P,G	CA_ANEN	Anencephaly	543	Y	Yes	
538	1	P,G	CA_MNSB	Meningomyelocele / Spina Bifida	544	N	No	
539	1	P,G	CA_CCHD	Cyanotic Congenital Heart Disease	545	U	Unknown or not stated	
540	1	P,G	CA_CDH	Congenital Diaphragmatic Hernia	546			
541	1	P,G	CA_OMP	Omphalocele	547			
542	1	P,G	CA_GAST	Gastroschisis	548			
543	1	P,G	F_CA_ANEN	Reporting Flag for Anencephaly			See footnote	
544	1	P,G	F_CA_MNSB	Flag for Meningomyelocele/Spina Bifida				
545	1	P,G	F_CA_CCHD	Reporting Flag for Cyanotic Congenital Heart Disease				
546	1	P,G	F_CA_CDH	Reporting Flag for Congenital Diaphragmatic Hernia				
547	1	P,G	F_CA_OMP	Reporting Flag for Omphalocele				
548	1	P,G	F_CA_GAST	Reporting Flag for Gastroschisis				
549	1	P,G	CA_LIMB	Limb Reduction Defect	555	Y	Yes	
550	1	P,G	CA_CLEFT	Cleft Lip w/ or w/o Cleft Palate	556	N	No	
551	1	P,G	CA_CLPAL	Cleft Palate alone	557	U	Unknown or not stated	
552	1	P,G	CA_DOWN	Down Syndrome	558	C P N U	Confirmed Pending No Unknown	
553	1	P,G	CA_DISOR	Suspected Chromosomal Disorder	559	C P	Confirmed Pending	

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						N	No
						U	Unknown
554	1	P,G	CA_HYPO	Hypospadias	560	Y	Yes, anomaly reported
						N	No, anomaly not reported
						U	Unknown
555	1	P,G	F_CA_LIMB	Reporting Flag for Limb Reduction Defect			See footnote
556	1	P,G	F_CA_CLEFT	Flag for Cleft Lip with or without Cleft Palate			
557	1	P,G	F_CA_CLPAL	Reporting Flag for Cleft Plate Alone			
558	1	P,G	F_CA_DOWN	Reporting Flag for Down Syndrome			
559	1	P,G	F_CA_DISOR	Reporting Flag for Suspected Chromosomal Disorder			
560	1	P,G	F_CA_HYPO	Reporting Flag for Hypospadias			
561	1	P,G	NO_CONGEN	No Congenital Anomalies Checked		1	True
					126	0	False
						9	Not Reported
562-566	5		FILLER	FILLER		Blank	
567	1	P,G	ITRAN	Infant Transferred	126	Y	Yes
						N	No
						U	Unknown or not stated
568	1	P,G	ILIVE	Infant Living at Time of Report		Y	Yes
					126	N	No
						U	Unknown or not stated
569	1	P,G	BFED	Infant Being Breastfed	570	Y	Yes
						N	No
						U	Unknown or not stated
570	1	P,G	F_BFED	Reporting Flag for Breastfed at Discharge			See footnote
571-1329	759		FILLER	FILLER		Blank	

The following items (fields 1330-1338 and 1340-1345) are comparable across revisions and include data for revised and unrevised reporting areas.

1330	1	P,G	uBFacil	Place of birth		1	Hospital
						2	Freestanding Birthing Center
						3	Clinic / Doctor's Office
						4	Residence
						5	Other
						9	Unknown

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
1331-1345		Unrevised Check Boxes		All checkbox items below follow this coding structure:		1 2 9	Yes No Unknown
1331	1	P,G	uRF_Diab	Diabetes			
1332	1	P,G	uRF_Chype	Chronic Hypertension			
1333	1	P,G	uRF_Phype	Prepregnancy Associated Hypertension			
1334	1	P,G	uRf_Ehype	Eclampsia	338		
1335	1	P,G	uME_Forc	Forceps			
1336	1	P,G	uME_Vacu	Vacuum			
1337	1	P,G	uOB_Indu	Induction of Labor			
1338	1	P,G	uLD_Bree	Breech			
1339	1		FILLER	FILLER			
1340	1	P,G	uCA_Anen	Anencephaly			
1341	1	P,G	uCA_Spina	Spina Bifida / Meningocele			
1342	1	P,G	uCA_Omph	Omphalocele / Gastroschisis			
1343	1	P,G	uCA_Clip	Cleft Lip / Palate			
1344	1	P,G	uCA_Hern	Diaphragmatic Hernia			
1345	1	P,G	uCA_Down	Down Syndrome			
1346	1	P,G	FLGND	Match Status		1 Blank	Record in both files Record not in both files

Here ends the Denominator file. Documentation of the Mortality Section of the Numerator (Linked) file begins below.

1347-1355	9	FILLER	FILLER			Blank	
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Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
1356-1358	3	AGED		Age at Death in Days		000-365	Number of days
1359	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)
1360-1361	2	AGER22		Infant age recode 22		Blank 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22	Age 1 year and over or not stated Under 1 hour (includes not stated hours and minutes) 1 – 23 hours 1 day (includes not stated days) 2 days 3 days 4 days 5 days 6 days 7 days (includes not stated weeks) 14 – 20 days 21 – 27 days 1 month (includes not stated months) 2 months 3 months 4 months 5 months 6 months 7 months 8 months 9 months 10 months 11 months
1362	1	MANNER		Manner of Death		1 2 3 4 5 6 7 Blank	Accident Suicide Homicide Pending investigation Could not determine Self-inflicted Natural Not specified
1363	1	DISPO		Method of Disposition		B C O U	Burial Cremation Other Unknown

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
1364	1	AUTOPSY		Autopsy		Y N U	Yes No Unknown
1365	1	FILLER		FILLER		Blank	
1366	1	PLACE		Place of injury for causes W00-Y34, except Y06.- and Y07.-		0 1 2 3 4 5 6 7 8 9 Blank	Home Residential institution School, other institution and public administrative area Sports and athletics area Street and highway Trade and service area Industrial and construction area Farm Other Specified Places Unspecified place Cause other than W00-Y34, except Y06.- and Y07.-
1367	1	FILLER		FILLER		Blank	
<u>UNDERLYING CAUSE OF DEATH</u>							
1368-1371	4	UCOD		ICD Code (10th Revision) See the <u>International Classification of Diseases, 1992 Revision, Volume 1.</u>			
1372	1	FILLER		FILLER		Blank	
1373-1375	3	UCODR130		130 Infant Cause Recode			
1376	1	FILLER		FILLER		Blank	
1377-1384	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.

1385-1386	2	FILLER		FILLER		Blank	
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Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
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MULTIPLE CONDITIONS

1387-1388	2	EANUM		Number of Entity-Axis Conditions		00-20	Code range
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1389-1528	140	ENTITY		Entity-Axis Conditions Space has been provided for a maximum of 20 conditions. Each condition takes 7 positions in the record. The 7 th position will be blank. Records that do not have 20 conditions are blank in the unused area.			
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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
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Position 3 – 6: Condition code

1389-1395	7		1 st Condition
1396-1402	7		2 nd Condition
1403-1409	7		3 rd Condition
1410-1416	7		4 th Condition
1417-1423	7		5 th Condition
1424-1430	7		6 th Condition
1431-1437	7		7 th Condition
1438-1444	7		8 th Condition
1445-1451	7		9 th Condition
1452-1458	7		10 th Condition
1459-1465	7		11 th Condition
1466-1472	7		12 th Condition
1473-1479	7		13 th Condition
1480-1486	7		14 th Condition
1487-1493	7		15 th Condition
1494-1500	7		16 th Condition
1501-1507	7		17 th Condition
1508-1514	7		18 th Condition
1515-1521	7		19 th Condition
1522-1528	7		20 th Condition

1529-1530	2	FILLER		FILLER		Blank	
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1531-1532	2	RANUM		Number of Record-Axis Conditions		00-20	Code range
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Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
1533-1632	100	RECORD		Record-Axis Conditions Space has been provided for a maximum of 20 conditions. Each condition takes 5 positions in the record. The 5 th position will be blank. Records that do not have 20 conditions are blank in the unused area. Positions 1 – 4: Condition Code			
1533-1537	5			1 st Condition			
1538-1542	5			2 nd Condition			
1543-1547	5			3 rd Condition			
1548-1552	5			4 th Condition			
1553-1557	5			5 th Condition			
1558-1562	5			6 th Condition			
1563-1567	5			7 th Condition			
1568-1572	5			8 th Condition			
1573-1577	5			9 th Condition			
1578-1582	5			10 th Condition			
1583-1587	5			11 th Condition			
1588-1592	5			12 th Condition			
1593-1597	5			13 th Condition			
1598-1602	5			14 th Condition			
1603-1607	5			15 th Condition			
1608-1612	5			16 th Condition			
1613-1617	5			17 th Condition			
1618-1622	5			18 th Condition			
1623-1627	5			19 th Condition			
1628-1632	5			20 th Condition			
1633-1634	2	FILLER		FILLER		Blank	
1635	1	D_RESTATUS		Death Resident Status			
				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

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
							Territory of Occurrence and Residence are the same, but County-equivalent is different.
					3	3	INTERTERRITORY NONRESIDENTS
							Territory of occurrence and residence are different, but both are a Territory.
					4	4	FOREIGN RESIDENTS
							Occurred in Virgin Islands to a resident of any other place.
				Guam Occurrence	1	1	RESIDENTS Occurred in Guam to a resident of Guam or to a resident of the U.S.
					3	3	INTERTERRITORY NONRESIDENTS
							Territory of occurrence and residence are different, but both are a Territory.
					4	4	FOREIGN RESIDENTS
							Occurred in Guam to a resident of any place other than Guam or the U.S.
1636-1669	34		FILLER	FILLER		Blank	
1670	1		HOSPD	Place of Death and Decedent's Status	1	1	Hospital, clinic or Medical Center – Inpatient
					2	2	Hospital, clinic or Medical Center – Outpatient or admitted to Emergency Room
					3	3	Hospital, clinic or Medical Center – Dead on Arrival
					4	4	Decedent's home
					5	5	Hospice facility
					6	6	Nursing home/long term care
					7	7	Other
					9	9	Place of death unknown
1671	1		DWEEKDAY	Day of Week of Death	1	1	Sunday
					2	2	Monday
					3	3	Tuesday
					4	4	Wednesday
					5	5	Thursday
					6	6	Friday
					7	7	Saturday
					9	9	Unknown
1672-1675	4		DOD_YY	Data Year	2015	2015	2015
1676-1741	66		FILLER	FILLER		Blank	
1742-1743	2		DOD_MM	Month of Death	01	01	January
					02	02	February
					03	03	March
					04	04	April
					05	05	May

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						06	June
						07	July
						08	August
						09	September
						10	October
						11	November
						12	December

ADDENDUM

Detailed geographic information for the territories.

24-25	2	T,G	OSTATE	Occurrence Postal State <u>U.S. Territories</u>		GU Guam, PR Puerto Rico, VI Virgin Islands
28-30	3	T,G	OCNTYFIPS	Occurrence FIPS County	000-nnn	County of Occurrence
31	1	T,G	OCNTYPOP	Occurrence County Population	0	County of 1,000,000 or more
					1	County of 500,000 to 1,000,000
					2	County of 250,000 to 500,000
					3	County of 100,000 to 250,000
					4	County of 50,000 to 100,000
					5	County of 25,000 to 50,000
					6	County of 10,000 to 25,000
					9	County less than 10,000
80-81	2	T,G	MBCNTRY	Mother's Birth Country	AA-ZZ	See Geographic Documentation
85-86	2	G	MRCNTRY	Mother's Residence Country	AA-ZZ	See Geographic Documentation
89-90	2	T,G	MRSTATEPSTL	Mother's Residence Postal State <u>U.S. Territories</u> <u>Foreign</u>		GU Guam, PR Puerto Rico, VI Virgin Islands CC Canada, CU Cuba, MX Mexico, XX Not Applicable, ZZ Not Classifiable
91-93	3	T,G	MRCNTYFIPS	Mother's FIPS County	000-998	See Geographic Tables
					999	Foreign
99	1	T,G	RCNTY_POP	Population of Residence County	0	County of 1,000,000 or more
					1	County of 500,000 to 1,000,000
					2	County of 250,000 to 500,000
					3	County of 100,000 to 250,000
					4	County of 50,000 to 100,000

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						5	County of 25,000 to 50,000
						6	County of 10,000 to 25,000
						9	County less than 10,000
						Z	Foreign resident
100	1	G	RCITY_POP	Population of Residence City		0	City of 1,000,000 or more
						1	City of 500,000 to 1,000,000
						2	City of 250,000 to 500,000
						3	City of 100,000 to 250,000
						4	City of 50,000 to 100,000
						5	City of 25,000 to 50,000
						6	City of 10,000 to 25,000
						9	All other areas in the US
						Z	Foreign resident
103	1	T,G	RECTYPE	Record Type		1	RESIDENT: State and county of occurrence and residence are the same.
						2	NONRESIDENT: State and county of occurrence and residence are different.
1636-1637	2		DOSTATE	State of Occurrence (FIPS) of Death		PR	Puerto Rico
						VI	Virgin Islands
						GU	Guam
1638-1640	3		DOCNTY	County of Occurrence (FIPS) of Death Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State and identify each county. (Note: To uniquely identify a county, both the state and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document.		001-nnn	Code range
1641-1642	2		FILLER	FILLER			Blank
1643	1		DCNTYPOP	<u>Population Size of County of Occurrence of Death</u> Based on the results of the 2010 Census		0	County of 1,000,000 or more
						1	County of 500,000 to 999,999
						2	County of 250,000 to 499,999
						3	County of 100,000 to 249,999
						4	County of 50,000 to 99,999
						5	County of 25,000 to 49,999
						6	County of 10,000 to 24,999
						9	County of less than 10,000

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
1644-1645	2	DRSTATE		State of Residence (FIPS)		PR VI GU	Puerto Rico Virgin Islands Guam
				Puerto Rico Occurrence		PR AL-WY, VI,AS,GU, MP,ZZ	Puerto Rico Foreign residents: refer to U.S. for specific code structure.
				Virgin Islands Occurrence		VI AL-WY, PR,AS,GU, MP, ZZ	Virgin Islands Foreign residents: refer to U.S. for specific code structure.
				Guam Occurrence		GU AL-WY, PR,AS, VI,MP, ZZ	Guam U.S. resident. Also considered a resident of Guam. Foreign residents: refer to U.S. for specific code structure.
1646-1647	2	FILLER		FILLER		Blank	
1648-1649	2	DRSTCNTRY		State/Country of Residence of Death Recode			
				Territorial resident		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 AL-ZZ	Puerto Rico Foreign residents: refer to U.S. for specific code structure.
				Virgin Islands Occurrence		VI AL-ZZ	Virgin Islands Foreign residents: refer to U.S. for specific code structure.
				Guam Occurrence		GU AL-WY, PR,VI,AS, MP,ZZ	Guam U.S. resident. Also considered a resident of Guam Foreign residents: refer to U.S. for specific code structure.
1650-1652	3	DRCNTY		County of Residence (FIPS) of Death (To uniquely identify a county, both the state and county codes must be used.)			
						000	Foreign residents

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

Position	Len	File*	Field	Description	Flag Position	Values	Definition
						001-nnn	Code range
1653-1665	13	FILLER		FILLER		Blank	
1666	1	DRCNTYPOP		Population Size of County of Residence of Death Based on the results of the 2010 Census		0 1 2 3 4 5 6 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 100,000 to 250,000 County of 50,000 to 100,000 County of 25,000 to 50,000 County of 10,000 to 25,000 County of less than 10,000 Foreign residents

Note: Flag definitions: 0 – not reported in either year, 1 – reported in both years, 2 – reported in previous year only, 3 – reported in current year only

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

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

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)

Documentation Table 1. Live births and infant death by state of occurrence of birth and by state of residence at birth United States, 2015 Cohort Data.

(Residence of birth is of the Mother)

State	Live Births		Infant Deaths Unweighted		Infant Mortality Rate
	Occurrence	Residence	Occurrence	Residence	
United States /1	3,988,733	3,978,497	23,357	23,326	5.86
Alabama	58,034	59,657	471	491	8.23
Alaska	11,176	11,282	64	68	6.03
Arizona	86,399	85,351	466	471	5.52
Arkansas	37,571	38,886	280	304	7.82
California	492,759	491,748	2,136	2,131	4.33
Colorado	67,162	66,581	361	335	5.03
Connecticut	37,242	35,746	197	198	5.54
Delaware	11,511	11,166	103	104	9.31
Dist of Columbia	14,615	9,578	131	90	9.40
Florida	224,530	224,269	1,424	1,414	6.30
Georgia	132,678	131,404	1,039	1,027	7.82
Hawaii	18,453	18,420	111	113	6.13
Idaho	22,474	22,827	106	116	5.08
Illinois	154,193	158,116	899	955	6.04
Indiana	84,995	84,040	591	595	7.08
Iowa	39,491	39,482	155	170	4.31
Kansas	40,238	39,154	217	236	6.03
Kentucky	53,515	55,971	356	386	6.90
Louisiana	64,774	64,692	487	486	7.51
Maine	12,385	12,607	76	78	6.19
Maryland	70,314	73,616	483	496	6.74
Massachusetts	71,993	71,492	310	307	4.29
Michigan	112,309	113,312	736	737	6.50
Minnesota	69,092	69,834	380	371	5.31
Mississippi	37,589	38,394	334	358	9.32
Missouri	76,170	75,061	544	489	6.51
Montana	12,523	12,583	70	73	5.80
Nebraska	27,120	26,679	151	147	5.51
Nevada	35,951	36,298	194	196	5.40
New Hampshire	12,494	12,433	55	44	3.54
New Jersey	100,883	103,127	451	468	4.54
New Mexico	24,296	25,816	117	134	5.19
New York	116,319	120,224	559	600	4.99
New York City	121,674	117,050	497	462	3.95
North Carolina	122,670	120,843	894	889	7.36
North Dakota	12,839	11,314	74	76	6.72
Ohio	140,050	139,264	1,006	985	7.07
Oklahoma	51,900	53,122	385	390	7.34
Oregon	46,101	45,655	231	224	4.91
Pennsylvania	140,130	141,047	880	851	6.03
Rhode Island	11,552	10,993	74	62	5.64
South Carolina	54,754	58,139	394	418	7.19
South Dakota	12,969	12,336	95	85	6.89
Tennessee	87,432	81,685	635	564	6.90

Documentation Table 1. Live births and infant death by state of occurrence of birth and by state of residence at birth United States, 2015 Cohort Data -Con.
 (Residence of birth is of the Mother)

State	Live Births		Infant Deaths Unweighted		Infant Mortality Rate
	Occurrence	Residence	Occurrence	Residence	
Texas	412,672	403,618	2,275	2,235	5.54
Utah	51,723	50,778	264	247	4.86
Vermont	5,720	5,903	12	25	4.24
Virginia	102,182	103,303	587	614	5.94
Washington	88,905	88,990	435	436	4.90
West Virginia	20,422	19,805	152	139	7.02
Wisconsin	66,677	67,041	391	400	5.97
Wyoming	7,113	7,765	22	36	4.64

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

Documentation Table 2. Live births, infant deaths and infant mortality rates by race of mother, sex and birthweight of child: United States, 2015 Cohort Data.
 [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.....	3,978,497	6,647	9,700	11,185	12,947	16,213	62,972	202,601	3,655,556	676
Infant deaths.....	23,326	5,585	3,693	1,336	782	670	1,551	2,064	7,503	142
Infant Mortality Rate.....	5.86	840.23	380.72	119.45	60.40	41.32	24.63	10.19	2.05	210.06
Male										
Live births.....	2,036,161	3,346	4,869	5,629	6,462	8,261	30,738	92,392	1,884,092	372
Infant deaths.....	12,940	2,901	2,117	797	419	380	812	1,056	4,358	100
Infant Mortality Rate.....	6.36	867.01	434.79	141.59	64.84	46.00	26.42	11.43	2.31	268.82
Female										
Live births.....	1,942,336	3,301	4,831	5,556	6,485	7,952	32,234	110,209	1,771,464	304
Infant deaths.....	10,386	2,684	1,576	539	363	290	739	1,008	3,145	42
Infant Mortality Rate.....	5.35	813.09	326.23	97.01	55.98	36.47	22.93	9.15	1.78	138.16
Non-Hispanic White										
Both sexes										
Live births.....	2,130,279	2,273	3,531	4,605	5,664	7,459	29,775	94,771	1,982,030	171
Infant deaths.....	10,394	1,958	1,464	585	389	307	747	993	3,899	52
Infant Mortality Rate.....	4.88	861.42	414.61	127.04	68.68	41.16	25.09	10.48	1.97	304.09
Male										
Live births.....	1,092,789	1,108	1,745	2,353	2,829	3,842	14,416	43,039	1,023,371	86
Infant deaths.....	5,843	983	842	351	202	178	391	514	2,349	33
Infant Mortality Rate.....	5.35	887.18	482.52	149.17	71.40	46.33	27.12	11.94	2.30	383.72
Female										
Live births.....	1,037,490	1,165	1,786	2,252	2,835	3,617	15,359	51,732	958,659	85
Infant deaths.....	4,551	975	622	234	187	129	356	479	1,550	19
Infant Mortality Rate.....	4.39	836.91	348.26	103.91	65.96	35.66	23.18	9.26	1.62	*
Non-Hispanic Black										
Both sexes										
Live births.....	589,047	2,527	3,471	3,469	3,700	4,215	15,382	46,188	510,014	81
Infant deaths.....	6,583	2,062	1,167	380	177	165	366	496	1,718	52
Infant Mortality Rate.....	11.18	815.99	336.21	109.54	47.84	39.15	23.79	10.74	3.37	641.98

Male

Live births.....	299,319	1,261	1,750	1,721	1,806	2,028	7,229	20,599	262,870	55
Infant deaths.....	3,611	1,061	659	224	95	89	208	253	983	39
Infant Mortality Rate.....	12.06	841.40	376.57	130.16	52.60	43.89	28.77	12.28	3.74	709.09

Female

Live births.....	289,728	1,266	1,721	1,748	1,894	2,187	8,153	25,589	247,144	26
Infant deaths.....	2,972	1,001	508	156	82	76	158	243	735	13
Infant Mortality Rate.....	10.26	790.68	295.18	89.24	43.29	34.75	19.38	9.50	2.97	*

American Indian or Alaskan Native /1

Both sexes

Live births.....	44,299	59	91	101	144	185	658	2,116	40,939	6
Infant deaths.....	355	48	41	14	14	13	21	23	180	1
Infant Mortality Rate.....	8.01	813.56	450.55	*	*	*	31.91	10.87	4.40	*

Male

Live births.....	22,706	31	46	54	75	105	337	1,022	21,032	4
Infant deaths.....	198	27	23	9	8	8	8	11	103	1
Infant Mortality Rate.....	8.72	870.97	500.00	*	*	*	*	*	4.90	*

Female

Live births.....	21,593	28	45	47	69	80	321	1,094	19,907	2
Infant deaths.....	157	21	18	5	6	5	13	12	77	0
Infant Mortality Rate.....	7.27	750.00	*	*	*	*	*	*	3.87	-

Asian Pacific Islander

Both sexes

Live births.....	281,264	337	532	661	779	952	4,126	16,314	257,528	35
Infant deaths.....	1,167	299	204	78	33	34	69	119	328	4
Infant Mortality Rate.....	4.15	887.24	383.46	118.00	42.36	35.71	16.72	7.29	1.27	*

Male

Live births.....	144,867	177	290	330	414	489	2,139	7,614	133,393	21
Infant deaths.....	659	162	126	48	20	19	29	67	184	4
Infant Mortality Rate.....	4.55	915.25	434.48	145.45	48.31	*	13.56	8.80	1.38	*

Female

Live births.....	136,397	160	242	331	365	463	1,987	8,700	124,135	14
Infant deaths.....	508	137	78	29	13	15	40	52	144	0
Infant Mortality Rate.....	3.72	856.25	322.31	87.61	*	*	20.13	5.98	1.16	-

Hispanic

Both sexes

Live births.....	924,048	1,324	2,008	2,288	2,601	3,334	12,739	42,548	857,151	55
Infant deaths.....	4,581	1,105	767	267	165	147	339	424	1,345	22
Infant Mortality Rate.....	4.96	834.59	381.97	116.70	63.44	44.09	26.61	9.97	1.57	400.00

Male

Live births.....	471,456	706	1,000	1,144	1,307	1,761	6,479	19,840	439,186	33
Infant deaths.....	2,502	611	440	158	91	86	170	207	724	15
Infant Mortality Rate.....	5.31	865.44	440.00	138.11	69.63	48.84	26.24	10.43	1.65	*

Female

Live births.....	452,592	618	1,008	1,144	1,294	1,573	6,260	22,708	417,965	22
Infant deaths.....	2,079	494	327	109	74	61	169	217	621	7
Infant Mortality Rate.....	4.59	799.35	324.40	95.28	57.19	38.78	27.00	9.56	1.49	*

* 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, 2015
 Cohort Data
 [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
All Races										
Live births.....	3,978,497	26,996	36,149	46,515	273,126	2,477,819	840,254	258,999	15,713	2,926
Infant deaths.....	23,326	10,493	1,625	958	2,398	5,936	1,261	387	68	200
Infant Mortality Rate.....	5.86	388.69	44.95	20.60	8.78	2.40	1.50	1.49	4.33	68.35
Non-Hispanic White										
Live births.....	2,130,279	10,162	16,905	22,750	139,329	1,303,981	469,152	156,719	10,085	1,196
Infant deaths.....	10,394	3,961	790	434	1,226	3,008	659	208	37	71
Infant Mortality Rate.....	4.88	389.79	46.73	19.08	8.80	2.31	1.40	1.33	3.67	59.36
Non-Hispanic Black										
Live births.....	589,047	9,118	9,060	10,260	50,473	367,887	109,003	30,847	1,948	451
Infant deaths.....	6,583	3,553	401	234	539	1,391	300	81	16	68
Infant Mortality Rate.....	11.18	389.67	44.26	22.81	10.68	3.78	2.75	2.63	*	150.78
American Indian or Alaska Native /1										
Live births.....	44,299	281	414	550	3,415	27,744	8,900	2,741	177	77
Infant deaths.....	355	106	22	24	33	132	22	11	2	3
Infant Mortality Rate.....	8.01	377.22	53.14	43.64	9.66	4.76	2.47	*	*	*
Asian or Pacific Islander										
Live births.....	281,264	1,469	2,037	2,762	17,996	182,727	57,968	15,541	614	150
Infant deaths.....	1,167	566	81	55	113	259	63	22	2	6
Infant Mortality Rate.....	4.15	385.30	39.76	19.91	6.28	1.42	1.09	1.42	*	*
Hispanic										
Live births.....	924,048	5,732	7,560	9,974	61,152	591,492	192,938	51,880	2,719	601
Infant deaths.....	4,581	2,141	311	201	468	1,133	213	69	10	35
Infant Mortality Rate.....	4.96	373.52	41.14	20.15	7.65	1.92	1.10	1.33	*	58.24

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

1/ Includes Aleut and Eskimos

Documentation Table 4. Infant deaths and infant mortality rates by age of death for 10 major causes of infant death: United States, 2015 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 and birthweight	Live Births	Total				
		Infant Deaths	Total Neonatal	Early Neonatal	Late Neonatal	Post-Neonatal
All Causes	3,978,497	23,326	15,554	12,467	3,087	7,772
		586.3	391.0	313.4	77.6	195.4
Congenital malformations (Q00-Q99).....		4,863	3,464	2,650	814	1,399
		122.2	87.1	66.6	20.5	35.2
Short gestation and low birthweight nec (P07).....		4,041	3,956	3,834	122	85
		101.6	99.4	96.4	3.1	2.1
Maternal complications of pregnancy (P01).....		1,513	1,501	1,491	10	12
		38.0	37.7	37.5	*	*
Sudden infant death syndrome (R95).....		1,524	149	23	126	1,375
		38.3	3.7	0.6	3.2	34.6
Accidents (unintentional injuries) (V01-X59).....		1,263	119	27	92	1,144
		31.7	3.0	0.7	2.3	28.8
Complications of placenta, cord, membranes (P02).....		906	894	862	32	12
		22.8	22.5	21.7	0.8	*
Bacterial sepsis of newborn (P36).....		594	575	241	334	19
		14.9	14.5	6.1	8.4	*
Respiratory distress of newborn (P22).....		450	443	342	101	7
		11.3	11.1	8.6	2.5	*
Diseases of the circulatory system (I00-I99).....		432	95	54	41	337
		10.9	2.4	1.4	1.0	8.5
Neonatal hemorrhage (P50-P52, P54).....		405	399	290	109	6
		10.2	10.0	7.3	2.7	*
All other causes.....		7,336	3,959	2,653	1,306	3,376
		184.4	99.5	66.7	32.8	84.9

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