

# **User Guide to the 2016 Fetal Death Public Use File**



# **2016 Fetal Death Data Set**

## **User's Guide**

### **ACKNOWLEDGMENTS**

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Questions on the documentation or substantive questions concerning the data should be directed to the Reproductive Statistics Branch, Division of Vital Statistics, NCHS, 3311 Toledo Road, Hyattsville, MD 20782-2003 (1-800) 232-4636.

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

# 2016 Fetal Death Data Set

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## External links

Fetal and Perinatal Mortality, United States, 2006

[http://www.cdc.gov/nchs/data/nvsr/nvsr60/nvsr60\\_08.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr60/nvsr60_08.pdf)

Trends in Fetal and Perinatal Mortality in the United States, 2006-2012

<http://www.cdc.gov/nchs/data/databriefs/db169.pdf>

Fetal and Perinatal Mortality: United States, 2013

[http://www.cdc.gov/nchs/data/nvsr/nvsr64/nvsr64\\_08.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr64/nvsr64_08.pdf)

Births: Final Data for 2016

[https://www.cdc.gov/nchs/data/nvsr/nvsr67/nvsr67\\_01.pdf](https://www.cdc.gov/nchs/data/nvsr/nvsr67/nvsr67_01.pdf).

User Guide to the 2015 Period Linked Birth/Infant Death Public Use File

[ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset\\_Documentation/DVS/periodlinked/LinkPE15Guide.pdf](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/DVS/periodlinked/LinkPE15Guide.pdf)

(the 2016 file is forthcoming)

## **Introduction**

The User Guide for the 2016 public use fetal death file is abridged to include the basic information needed for data analysis. The 2014-2016 data files include items comparable to both the 1989 revision of the U.S. Standard Report of Fetal Death (unrevised) and the 2003 revision of the U.S. Standard Report of Fetal Death (revised) and items unique to the 2003 revision (see below for more detail). Please see the Guide to Completing the Facility Worksheets for the Certificate of Live Birth and the Report of Fetal Death (2003 Revision) for detailed definitions and instructions for data items that are collected from the Facility Worksheet<sup>1</sup>.

### ***Changes to the National Fetal Death File***

For 2007-2013, the fetal death data file only included items that were comparable across the 1989 and 2003 revisions of the U.S. Standard Report of Fetal Death<sup>2</sup>. Beginning with the 2014 data year, the file was redesigned with substantial changes from previous years in both content and format. These changes are outlined below:

- Data items specific to the 2003 revision of the U.S. Standard Report of Fetal Death (revised items) are included in the 2016 file (see table A)
- In an effort to improve data quality, 39 data items were dropped from the national fetal death file beginning with the 2014 data file (see table B for listing of the items dropped).
- Beginning with the 2014 data year, NCHS transitioned to a new standard for estimating the gestational age at delivery for both births and fetal deaths. The

new measure – the obstetric estimate of gestation at delivery (OE) – replaces the measure based on the date of the last normal menses (LMP). Accordingly, the OE is now used for all reporting purposes for fetal deaths. See discussion on “Changes to gestational age measurement”.

- Cause of fetal death data for 2015 and 2016 (for a subset of revised states with acceptable levels of data quality) are scheduled for release later in 2018. The file will be updated to include cause of death data once available.

### ***U.S. fetal death data***

United States fetal death data represent fetal deaths registered in the 50 states, the District of Columbia, and New York City. The majority of states require reporting fetal deaths of 20 weeks of gestation or more, or 350 grams delivery weight (roughly equivalent to 20 weeks), or some combination of the two (see table C). The Centers for Disease Control and Prevention’s National Center for Health Statistics (NCHS) receives these data as electronic files, prepared from individual records processed by each registration area, through the Vital Statistics Cooperative Program.

Fetal death data for the U.S. are limited to events occurring within the United States to U.S. residents and nonresidents. Fetal deaths to nonresidents of the United States are excluded from all tabulations by place of residence. Fetal deaths occurring to U.S. citizens outside of the United States are not included in this file. Most of the Documentation Tables included in this User’s Guide are restricted to fetal deaths occurring at 20 weeks of gestation or more.

### Availability of geographic detail

The U.S. micro-data fetal death files for 2005 through 2016 do not include geographic detail (e.g., mother's state of residence). Tabulations of fetal death data by geographic detail and many other demographic and health items are scheduled to be available in the CDC WONDER web application (<http://wonder.cdc.gov/>) later in 2018. Additionally, certain geographic level data may also be available upon request: See "NCHS Data Release and Access Policy for Micro-data and Compressed Vital Statistics Files", available at: [http://www.cdc.gov/nchs/nvss/dvs\\_data\\_release.htm](http://www.cdc.gov/nchs/nvss/dvs_data_release.htm) .

The 2016 territories file includes data on fetal deaths occurring in American Samoa, Guam, the Northern Marianas, Puerto Rico, and the Virgin Islands. It includes limited geographical data such as information identifying individual territories and counties (or their equivalent) with populations of 100,000 or more by place of occurrence and residence.

### Downloadable files

Fetal death public use data files from 1982 to 2016, including User Guides, U.S. Fetal Death Data, and U.S. Territories Fetal Death Data are available for downloading directly from the NCHS website at: [http://www.cdc.gov/nchs/data\\_access/Vitalstatsonline.htm](http://www.cdc.gov/nchs/data_access/Vitalstatsonline.htm).

### ***The 1989 and 2003 Revisions of the U.S. Report of Fetal Death***

This data file includes data based on both the 1989 revision of the U.S. Standard Report of Fetal Death (unrevised) and the 2003 revision of the U.S. Standard Report of Fetal Death (revised). The 2003 revision is described in detail elsewhere. (See the 2003 Revision website at: [http://www.cdc.gov/nchs/nvss/vital\\_certificate\\_revisions.htm](http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm)).

Forty-six states, the District of Columbia, New York City, Guam, the Northern Marianas, Puerto Rico, and the Virgin Islands implemented the revised fetal death report as of January 1, 2016 (see table D). Additionally, New Jersey and West Virginia implemented the revised fetal death report in 2016, but after January 1. The two unrevised states are Connecticut and New York. Together, the reporting areas revised as of January 1, 2016 represent 93.2 percent of all U.S. fetal deaths of 20 weeks and over. Revised data are combined with unrevised data from the remaining areas to create US data.

***Incomplete national reporting: The use of reporting flags***

The 2016 national fetal death file includes items that are not reported by all vital statistics jurisdictions (e.g., items specific to the 2003 revision of the US Standard Report of Fetal Death). Reporting flags were developed to help the user more readily identify the correct number of fetal deaths for items with less than full national reporting. Reporting flags are available for many items in the file, and positions for reporting flags are noted along with each data item in the file layout.

***Translating “blanks”***

In the 2016 fetal death file, for data items which are not reported by all states, fetal deaths to residents of a revised state occurring in an unrevised state, and fetal deaths to residents

in an unrevised state occurring in a revised state, are represented by “blanks.” Blanks should be treated as “unknowns” for tabulations. In sum, the correct use of reporting flags and translation of blanks will result in an accurate tally of fetal deaths for items with incomplete national reporting. For an example of SAS code that may be used to incorporate the correct use of reporting flags and the translation of blanks, see below.

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

The example below is for the revised “place of delivery” item, which is reported by the revised reporting area (46 states, New York City and the District of Columbia in 2016).

Sample SAS program

```
01    DATA work;
02        INFILE 'c:fet16us.dat' LRECL=3050;
03        INPUT
04            oe_tabflg   10
05            bfacil     34
06            restatus   131
07            f_facility 409;
08
09        /*Include if 20 weeks gestation or more*/
10        IF oe_tabflg EQ 2;
11        /*Exclude foreign residents*/
12        IF restatus NE 4;
13        /*Select reporting area*/
14        IF f_facility=1;
```



```
15          /*Convert blanks to unknown*/
16          IF bfacil =. THEN bfacil =9;
17
18  PROC FREQ;
19          TABLE bfacil;
20  RUN;
```

In this example, “oe\_tabflg” is used to select fetal deaths of 20 weeks gestation or more. Also, “restatus” is used to exclude fetal deaths to foreign residents (this is standard practice for all NCHS tabulations). As well in this example, blanks are represented by numeric values SAS code = (.). However, for some items in the file, e.g., pregnancy risk factors, blanks are represented by character values for which the SAS code is empty quotes ( ‘ ’).

### ***Level of Unknowns for selected comparable and revised items***

Information on the completeness of reporting of fetal death (with a stated or presumed period of gestation of 20 weeks or more) data is shown in Table E, which presents a listing of items and the percentage of records that were not stated for each reporting area: all 50 states, the District of Columbia, New York City, Puerto Rico, Guam, American Samoa, the Northern Marianas, and the Virgin Islands. Fetal deaths to residents of states revised as of January 1, 2016 which occurred in unrevised states are classified as unknowns for items exclusive to the 2003 revision (0.2 percent for the revised area). In comparison with other vital statistics records, fetal death records generally have more not-stated responses for individual items.

### ***Changes in reporting requirements for 2016***

Oklahoma –Oklahoma amended its fetal death reporting requirement effective with 2016 fetal death data. The new law requires that a fetal death be reported occurring at 12 or more weeks gestation. The increase in the number of fetal deaths in Oklahoma for 2016 may be at least partly related to this change in reporting.

### **Changes to gestational age measurement**

Beginning with the 2014 data year, NCHS transitioned to the use of the obstetric estimate of gestation at delivery (OE) as the standard measure for estimating gestational age<sup>3</sup>. The OE replaced the measure based on the date of the last normal menses (LMP)<sup>3</sup>. This transition was made because of the increasing evidence of the greater validity of the OE compared with the LMP-based measure<sup>3,4</sup>. Accordingly, for 2016, gestational age data (including how deaths at 20 and greater weeks are identified using the tabulation flag located at position 10 in the file layout) presented in this User Guide and in future reports are based on the OE. Gestational age estimates differ somewhat between the OE- and LMP-based measures and LMP-based data are presented for comparison purposes in Documentation table 1. Note that national data based on the OE are available only from data year 2007 forward.

### **Classification of fetal deaths at 20 weeks of gestation or greater**

To maximize the comparability of data by year and by state, most tables published by NCHS are based on fetal deaths occurring at gestations of 20 weeks or more. These

tabulations also include fetal deaths for which gestation is not stated for those states requiring reporting at 20 weeks of gestation or more only. Fetal deaths of not-stated gestation are excluded for states requiring reporting of all products of conception, except for those with a stated birthweight of 350 grams or more<sup>5</sup>. In 2016, this rule was applied to the following reporting areas: Colorado, Georgia, Hawaii, New York (including New York City), Oklahoma, Pennsylvania, Rhode Island, Virginia, American Samoa, and the Virgin Islands (see Table C). The summation of these rules results in the creation of the tabulation flag (position 10), which, when invoked, produces the number of records with a stated or presumed period of gestation of 20 weeks or more.

*Impact of change on gestational age measurement in counts and rates of fetal deaths*

The change to the obstetric estimate as the standard measure for estimating gestational age has resulted in a discontinuity in identifying deaths at 20 weeks or greater compared with the LMP-based measure for data years 2014 and later. For 2016, use of the OE-based tabulation flag resulted in 23,880 records with a stated or presumed period of gestation of 20 weeks or more. This number is slightly lower than what would be produced if a LMP based tabulation flag were used (23,945 records with a stated or presumed period of gestation of 20 weeks or more) (Documentation table 1). Overall, use of the different gestational age measures resulted in only a small difference (65) in the number of total fetal deaths at 20 and greater weeks for 2016. Differences in early and late fetal mortality, however, were larger. After proportional distribution (the process by which fetal deaths with not-stated gestational age are allocated to the 20– 27 week and 28 weeks or more categories according to the proportion of fetal deaths with stated

gestational age that fall into each category) was performed<sup>3</sup>, use of the OE-based measure (or tabulation flag) to identify early and later fetal deaths resulted in 12,486 early fetal deaths and 11,394 late fetal deaths. Use of the LMP-based measure (or tabulation flag) resulted in 11,864 early fetal deaths and 12,081 late fetal deaths. In sum, the OE-tabulation flag produced 622 more early fetal deaths and 687 fewer late fetal deaths than the LMP-based tabulation flag.

For 2016, the OE-based total U.S. fetal mortality rate was 6.02 fetal deaths at 20 weeks of gestation or more per 1,000 live births and fetal deaths, similar to the LMP-based rate of 6.03 (Documentation table 1). However, the OE-based early fetal mortality rate (3.15) was higher than the LMP-based rate (3.00). Conversely, the OE-based late fetal mortality rate (2.88) was lower than the LMP-based rate (3.05) (Documentation table 1).

### ***State Specific Issues***

- *Colorado – Date of first prenatal care visit* – Colorado did not differentiate between no prenatal care and unknown prenatal care, resulting in 0 records reporting no care and inaccurate levels of no care and unknown for the state.

The jurisdictions below reported levels of unknown data of 50% or higher for the item(s) noted for 2016:

- *District of Columbia – Estimated time of fetal death* – The District of Columbia had a very high not stated value for this item and as a result, has been flagged as not reporting.

- *Guam – Estimated time of fetal death* – Guam had a very high not stated value for this item and as a result, has been flagged as not reporting.
- *Indiana – WIC* – Indiana had a very high not stated value for this item and as a result, has been flagged as not reporting.
- *Rhode Island*
  - *Multiple items* – Rhode Island had a high level of not stated values for several items which as a result, were flagged as not reporting. These items are: all risk factors, mother’s education, date of first prenatal visit, mother’s height, mother’s pre-pregnancy weight, WIC, date of last live birth, cigarettes before pregnancy, cigarettes 1<sup>st</sup> trimester, cigarettes 2<sup>nd</sup> trimester, and cigarettes 3<sup>rd</sup> trimester, and date last normal menses began.
- *Virginia*
  - *Father’s date of birth* – Virginia had very high level of not stated values for the components of this item and as a result, has been flagged as not reporting.
  - *Estimated time of fetal death* – Virginia had a very high level of not stated values for this item and as a result, has been flagged as not reporting.
- *Washington – All risk factors* – Washington had a high level of not stated values for all risk factors and as a result, they have been flagged as not reporting.

## References

1. National Center for Health Statistics. Guide to completing the facility worksheets for the certificate of live birth and report of fetal death (2003 revision). 2012 update. Available from:  
<https://www.cdc.gov/nchs/data/dvs/GuidetoCompleteFacilityWks.pdf>.
2. National Center for Health Statistics. User guide for the 2013 fetal death public use file. Hyattsville, MD. Available from:  
[ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset\\_Documentation/DVS/fetaldath/2013FetalUserGuide.pdf](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/DVS/fetaldath/2013FetalUserGuide.pdf).
3. MacDorman MF, Gregory ECW: Fetal and perinatal mortality: United States, 2013. National vital statistics reports; vol 64 no 8. Hyattsville, MD: National Center for Health Statistics. 2015.
4. Martin JA, Osterman MJK, Kirmeyer SE, Gregory ECW. Measuring gestational age in vital statistics data: Transitioning to the obstetric estimate. National vital statistics reports; vol 64 no 5. Hyattsville, MD: National Center for Health Statistics. 2015.
5. National Center for Health Statistics. User guide for the 2006 fetal death public use file. Hyattsville, MD. Available from:  
[ftp://ftp.cdc.gov/pub/Health\\_Statistics/NCHS/Dataset\\_Documentation/DVS/fetaldath/2006FetalUserGuide.pdf](ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/DVS/fetaldath/2006FetalUserGuide.pdf).

## Control Count of Records

### File Characteristics: Fetal Public Use File 2016

#### All files:

Record format: Blocked, Fixed, Format  
Code scheme: Numeric/Alphabetic/Blank  
Record length: 3050

#### **Record counts**

#### U.S. file record count:

##### Counts of all fetal deaths:

Record count	51,391
By occurrence	51,391
By residence	51,291
To foreign residents	100

##### Counts of 20 weeks or more:

Record count	23,921
By occurrence	23,921
By residence	23,880
To foreign residents	41

##### Counts of less than 20 weeks:

Record count	27,470
By occurrence	27,470
By residence	27,411
To foreign residents	59

#### U.S. territories file record count:

##### Counts of all fetal deaths:

Record count	385
By occurrence	385
By residence	384
To foreign residents	1

##### Counts of 20 weeks or more:

Record count	380
By occurrence	380
By residence	379
To foreign residents	1

##### Counts of less than 20 weeks:

Record count	5
By occurrence	5
By residence	5
To foreign residents	0

## 2016 LIST OF DATA ELEMENTS AND LOCATIONS

<u>Data Items</u>	<u>Locations</u>
1. General	
a) Tabulation flags (gestational age)	10
b) Data year	11-14
c) Resident status	131
2. Prenatal Care	
a) Month began	202-203
3. Fetus	
a) Sex	316
b) Plurality	301
c) Weight at delivery	349-355
d) Gestational age	340-344(NCHS Standard item), 331-335
e) Month/year of delivery	11-16
f) Time of delivery	21-24
g) Day of week of delivery	25
4. Mother	
a) Age	86-90
b) Race	132-137
c) Education	145
d) Hispanic origin	139-144
5. Pregnancy History	
a) Live birth order	187
b) Birth interval	197-201
6. Father	
a) Age	177-180
7. Other Items	
a) Attendant at delivery	283
b) Place of delivery	34-35, 52
c) WIC receipt	229
8. Medical and Health Data	
a) Method of delivery	274-280
b) Medical risk factors	257-267, 269-272
c) Other risk factors	
i. Tobacco	230-238
ii. Mother's pre-pregnancy body mass index (BMI)	245-249
d) Complications of labor and delivery	273
e) Maternal morbidity	281-282
9. Residence reporting flags	372-440



**2016 Fetal Death  
Public Use Record Layout**

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
1-6	6	FILLER					
7	1	VERSION	<b>Version</b>		A,S	A S	State used the 2003 version of the US Standard Report of Fetal Death (Revised) State used the 1989 version of the US Standard Report of Fetal Death (Unrevised)
8-9	2	FILLER					
10	1	OE_TABFLG	<b>Obstetric Estimate Tabulation Flag</b> (Use with NCHS Standard item)		A,S	1 2	Under 20 weeks (exclude) 20 weeks or more (include)
11-14	4	DOD_YY	<b>Delivery Year</b>		A,S	2014	Year of delivery
15-16	2	DOD_MM	<b>Delivery Month</b>		A,S	01 02 03 04 05 06 07 08 09 10 11 12	January February March April May June July August September October November December
17-20	4	FILLER					
21-24	4	DOD_TT	<b>Delivery Time</b>	c409	A	0000-2359 9999	Time of Birth Not Stated
25	1	DOD_WK	<b>Weekday</b>		A,S	1 2 3	Sunday Monday Tuesday

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

A 2003 Version of US Standard Birth Certificate

S 1989 Version of US Standard Birth Certificate

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

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						4	Wednesday
						5	Thursday
						6	Friday
						7	Saturday
26-27	2	OSTATE	<b>Territory of Occurrence</b> <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file)</i>		A,S		
			<u>Territories</u>			AS	American Samoa
						GU	Guam
						MP	Northern Marianas
						PR	Puerto Rico
						VI	Virgin Islands
28-29	2	FILLER					
30-32	3	OCNTYFIPS	<b>Occurrence FIPS County</b> <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file) Data are suppressed if population &lt; 100,000</i>		A,S		
						000	No county level geography
						001-998	County of Occurrence (See Geographic Table)
						999	County of less than 100,000
33	1	OCNTYPOP	<b>Occurrence Territory County Population</b> <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file)</i>		A,S		
						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

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

A 2003 Version of US Standard Birth Certificate

S 1989 Version of US Standard Birth Certificate

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

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						9	County less than 100,000
34	1	BFACIL	<b>Delivery Place (Revised)</b>	409	A	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
35	1	UBFACIL	<b>Delivery Place</b>		A,S	1 2 3 4 5 9	Hospital Freestanding Birthing Center Clinic / Doctor's Office Residence Other Unknown
36-51	16	FILLER					
52	1	BFACIL3	<b>Delivery Place Recode</b>		A,S	1 2 3	In Hospital Not in Hospital Unknown/not stated
53-83	31	FILLER					
84	1	MAGE_IMPFLG	<b>Mother's Age Imputed</b>		A,S	Blank 1	Age not imputed Age imputed
85	1	MAGE_REPFLG	<b>Reported Age of Mother Flag</b>		A,S	Blank	Reported age not used

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

A 2003 Version of US Standard Birth Certificate

S 1989 Version of US Standard Birth Certificate

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

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						1	Reported age used
86-87	2	MAGER	<b>Mother's Single Year of Age</b>	432	A,S	12	12 years and under
						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

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

A 2003 Version of US Standard Birth Certificate

S 1989 Version of US Standard Birth Certificate

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

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
88-89	2	MAGER14	<b>Mother's Age Recode 14</b>	432	A,S	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
90	1	MAGER9	<b>Mother's Age Recode 9</b>	432	A,S	1 2 3 4 5 6 7 8 9	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
91-92	2	MBCNTRY	<b>Mother's Birth Country</b> c409 <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file)</i>		A	AA-ZZ	See Geographic Documentation
93-96	4	FILLER					
97	1	MBSTATE_REC	<b>Mother's Birth State Recode</b> c409		A	1 2 3	Native born (50 U.S. States) Foreign born (includes territories) Unknown or Not Stated
98-101	4	FILLER					

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

A 2003 Version of US Standard Birth Certificate

S 1989 Version of US Standard Birth Certificate

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

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
102-103	2	MRSTATEPSTL	<b>Mother's Residence Postal State</b> <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file)</i>		A,S		
			<u>United States</u>			AK	Alaska
						AL	Alabama
						AR	Arkansas
						AZ	Arizona
						CA	California
						CO	Colorado
						CT	Connecticut
						DE	Delaware
						DC	District of Columbia
						FL	Florida
						GA	Georgia
						HI	Hawaii
						ID	Idaho
						IL	Illinois
						IN	Indiana
						IA	Iowa
						KS	Kansas
						KY	Kentucky
						LA	Louisiana
						MA	Massachusetts
						MD	Maryland
						ME	Maine
						MI	Michigan
						MN	Minnesota
						MO	Missouri
						MS	Mississippi
						MT	Montana
						NC	North Carolina
						ND	North Dakota
						NE	Nebraska
						NH	New Hampshire
						NJ	New Jersey
						NM	New Mexico
						NV	Nevada
						NY	New York
						OH	Ohio
						OK	Oklahoma

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

A 2003 Version of US Standard Birth Certificate

S 1989 Version of US Standard Birth Certificate

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

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						OR	Oregon
						PA	Pennsylvania
						RI	Rhode Island
						SC	South Carolina
						SD	South Dakota
						TN	Tennessee
						TX	Texas
						UT	Utah
						VA	Virginia
						VT	Vermont
						WA	Washington
						WI	Wisconsin
						WV	West Virginia
						WY	Wyoming
			<u>Territories</u>			AS	American Samoa
						GU	Guam
						MP	Northern Marianas
						PR	Puerto Rico
						VI	Virgin Islands
			<u>Canadian Provinces</u>			AB	Alberta
						BC	British Columbia
						MB	Manitoba
						NB	New Brunswick
						NL	Newfoundland and Labrador
						NT	Northwest Territories
						NS	Nova Scotia
						NU	Nunavut
						ON	Ontario
						PE	Prince Edward Island
						QC	Quebec
						SK	Saskatchewan
						YT	Yukon Territory
			<u>Foreign</u>			XX	Foreign (Rest of world)
						ZZ	Not Classifiable

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
104-106	3	MRCNTYFIPS	<b>Mother's FIPS County of Residence</b> <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file) Data are suppressed if population &lt; 100,000</i>	A,s		000 001-998 999	No county level geography County of residence (See Geographic Table) County of less than 100,000
107-111	5	FILLER					
112	1	RCNTY_POP	<b>Population of Residence County</b> <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file)</i>		A,S	0 1 2 3 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 less than 100,000 Foreign resident
113-129	17	FILLER					
130	1	RECTYPE	<b>Record Type</b> <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file)</i>		A,S	1 2	RESIDENT: State and county of occurrence and residence are the same. NONRESIDENT: State and county of occurrence and residence are different.
131	1	RESTATUS	<b>Residence Status</b> <u>United States</u>		A,S	1 2	RESIDENT: State and county of occurrence and residence are the same. INTRASTATE NONRESIDENT: State of occurrence and residence are the same but county is different.

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						3	INTERSTATE NONRESIDENT: State of occurrence and residence are different but both are one of the 50 US states or District of Columbia.
						4	FOREIGN RESIDENT: The state of residence is not one of the 50 US states or District of Columbia.
			<u>Territories</u>			1	RESIDENT: State and county of occurrence and residence are the same. (Unique to Guam, all US residents are considered residents of Guam and thus are assigned 1.)
						2	INTRATERRITORY NONRESIDENT: Territory of occurrence and residence are the same but county is different.
						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.
132-133	2	MRACE31	<b>Mother's Race Recode 31</b>	425	A	01	White (alone)
						02	Black (alone)
						03	AIAN (American Indian or Alaskan Native) (alone)
						04	Asian (alone)
						05	NHOPI (Native Hawaiian or Other Pacific Islander) (alone)
						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
						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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						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
134	1	MRACE6	<b>Mother's Race Recode 6</b>	425	A		
						1	White (alone)
						2	Black (alone)
						3	AIAN (alone)
						4	Asian (alone)
						5	NHOPI (alone)
						6	More than one race
135-136	2	MRACE15	<b>Mother's Race Recode 15</b>	425	A		
						01	White (alone)
						02	Black (alone)
						03	AIAN (alone)
						04	Asian Indian (alone)
						05	Chinese (alone)
						06	Filipino (alone)
						07	Japanese (alone)
						08	Korean (alone)
						09	Vietnamese (alone)
						10	Other Asian (alone)
						11	Hawaiian (alone)
						12	Guamanian (alone)
						13	Samoan (alone)
						14	Other Pacific Islander (alone)
						15	More than one race
137	1	MRACEREC	<b>Mother's Bridged Race Recode</b> <u>United States and non-Puerto Rican Territories</u>	439	A,S		
						1	White
						2	Black
						3	American Indian or Alaskan Native
						4	Asian or Pacific Islander

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
138	1	MRACEIMP	<b>Mother's Race Imputed</b>		A,S	Blank 1 2	Mother's race not imputed Unknown race imputed All other races, formerly coded 09, imputed.
139-141	3	FILLER					
142	1	UMHISP	<b>Mother's Hispanic Origin</b>	424	A,S	0 1 2 3 4 5 9	Non-Hispanic Mexican Puerto Rican Cuban Central or South American Other and Unknown Hispanic Origin unknown or not stated
143	1	MRACEHISP	<b>Mother's Bridged Race/Hispanic Origin</b>	424	A,S	1 2 3 4 5 6 7 8 9	Mexican Puerto Rican Cuban Central or South American Other and Unknown Hispanic Non-Hispanic White Non-Hispanic Black Non-Hispanic Other Races Origin unknown or not stated
144	1	SR_MRACEHISP	<b>Mother's Race/Hispanic Origin</b>	c425	A	1 2 3 4 5 6 7 8	Non-Hispanic White (alone) Non-Hispanic Black (alone) Non-Hispanic AIAN (alone) Non-Hispanic Asian (alone) Non-Hispanic NHOPI (alone) Non-Hispanic more than one race Hispanic Origin unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
145	1	MEDUC	<b>Mother's Educ-Revised</b>	372	A	1 2 3 4 5 6 7 8 9	8 <sup>th</sup> grade or less 9 <sup>th</sup> through 12 <sup>th</sup> grade with no diploma High school graduate or GED completed Some college credit, but not a degree Associate degree (AA, AS) Bachelor's degree (BA, AB, BS) Master's degree (MA, MS, MEng, Med, MSW, MBA) Doctorate (PhD, EdD) or Professional degree (MD, DDS, DVM, LLB, JD) Unknown
146-171	26	FILLER					
172	1	FAGERPT_FLG	<b>Father's Reported Age Used</b>		A,S	Blank 1	Father's reported age not used Father's reported age used
173-176	4	FILLER					
177-178	2	FAGECOMB	<b>Father's Combined Age</b>	426	A,S	09-98 99	Father's combined age in years Unknown or not stated
179-180	2	FAGEREC11	<b>Father's Age Recode 11</b>	426	A,S	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
181-182	2	PRIORLIVE	<b>Prior Births Now Living</b>	440	A,S	00-30	Number of children still living from previous live births.

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						99	Unknown or not stated
183-184	2	PRIORDEAD	<b>Prior Births Now Dead</b>	440	A,S	00-30 99	Number of children dead from previous live births. Unknown or not stated
185-186	2	FILLER					
187	1	LBO_REC	<b>Live Birth Order Recode</b>	440	A,S	0-7 8 9	Number of live birth order. 8 or more live births Unknown or not stated
188-196	9	FILLER					
197-199	3	ILLB_R	<b>Interval Since Last Live Birth Recode</b>	427	A	000-003 004-300 888 999	Plural delivery Months since last live birth Not applicable Unknown or not stated
200-201	2	ILLB_R11	<b>Interval Since Last Live Birth Recode 11</b>	427	A	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 Unknown or not stated
202-203	2	PRECARE	<b>Month Prenatal Care Began (Revised)</b>	403	A	00 01-10 99	No prenatal care Month prenatal care began Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
204	1	PRECARE_REC	<b>Month Prenatal Care Began Recode (Revised)</b>	403	A	1 2 3 4 5	1 <sup>st</sup> to 3 <sup>rd</sup> month 4 <sup>th</sup> to 6 <sup>th</sup> month 7 <sup>th</sup> to final month No prenatal care Unknown or not stated
205-228	24	FILLER					
229	1	WIC	<b>WIC</b>	377	A	Y N U	Yes No Unknown or not stated
230-231	2	CIG_0	<b>Cigarettes Before Pregnancy</b>	405	A	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
232-233	2	CIG_1	<b>Cigarettes 1<sup>st</sup> Trimester</b>	406	A	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
234-235	2	CIG_2	<b>Cigarettes 2<sup>nd</sup> Trimester</b>	407	A	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
236-237	2	CIG_3	<b>Cigarettes 3<sup>rd</sup> Trimester</b>	408	A	00-97 98 99	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated
238	1	CIG_REC	<b>Cigarette Recode (Revised)</b>	374	A	Y N U	Yes No Unknown or not stated
239-242	4	FILLER					

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
243-244	2	M_Ht_In	<b>Mother's Height in Inches</b>	375	A	30-78 99	Height in inches Unknown or not stated
245-248	4	BMI	<b>BMI (prepregnancy)</b>	375	A	13.0-69.9 99.9	Body Mass Index Unknown or not stated
249	1	BMI_R	<b>Body Mass Index Recode (prepregnancy)</b>	375	A	1 2 3 4 5 6 9	Underweight <18.5 Normal 18.5-24.9 Overweight 25.0-29.9 Obesity I 30.0-34.9 Obesity II 35.0-39.9 Extreme Obesity III ≥ 40.0 Unknown or not stated
250-252	3	FILLER					
253-255	3	PWgt_R	<b>Prepregnancy Weight Recode</b>	376	A	075-375 999	Weight in pounds Unknown or not stated
256	1	FILLER					
257-262	6	<b><u>Risk Factors (Revised)</u></b>			A		
			The checkbox items indented below follow this code structure:				Y Yes N No U Unknown or not stated
257	1	RF_DIAB	<b>Prepregnancy Diabetes</b>	378			
258	1	RF_GEST	<b>Gestational Diabetes</b>	379			
259	1	RF_PHYP	<b>Prepregnancy Hypertension</b>	380			
260	1	RF_GHYP	<b>Gestational Hypertension</b>	381			
261	1	RF_ECLAM	<b>Hypertension Eclampsia</b>	382			
262	1	RF_INFTR	<b>Infertility Treatment</b>	383			
263	1	RF_FEDRG	<b>Fertility Enhancing Drugs</b>	384	A	Y N	Yes No

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						X U	Not applicable Unknown or not stated
264	1	RF_ARTEC	<b>Asst. Reproductive Technology</b> 385		A	Y N X U	Yes No Not applicable Unknown
265	1	RF_CESAR	<b>Previous Cesareans</b> 386		A	Y N U	Yes No Unknown or not stated
266-267	2	RF_CESARN	<b>Previous Cesareans Num</b> 387		A	00 01-30 99	None Number of previous cesareans Unknown or not stated
268	1	FILLER					
269-272	4	<b><u>Risk Factors</u></b> The checkbox items indented below follow this structure:				1 2 9	Yes No Unknown
269	1	URF_DIAB	Diabetes 411		A,S		
270	1	URF_CHYPER	Chronic Hypertension 412		A,S		
271	1	URF_PHYPER	Pregnancy Associated Hypertension 413		A,S		
272	1	URF_ECLAMP	Eclampsia 414		A,S		
273		<b><u>Complications of Labor &amp; Delivery</u></b> The checkbox items indented below follow this structure:				1 2 9	Yes No Not stated
273	1	ULD_BREECH	<b>Breech Delivery</b> 415		A,S		
274-277	6	<b><u>Method of Delivery (Revised)</u></b>					
274	1	ME_PRES	<b>Fetal Presentation</b> 388		A	1	Cephalic

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						2	Breech
						3	Other
						9	Unknown or not stated
275	1	ME_ROUT	<b>Route &amp; Method of Delivery</b>	389	A	1	Spontaneous
						2	Forceps
						3	Vacuum
						4	Cesarean
						9	Unknown or not stated
276	1	ME_TRIAL	<b>Trial of Labor Attempted</b>	390	A	Y	Yes
						N	No
						X	Not applicable
						U	Unknown or not stated
277	1	RDMETH_REC	<b>Delivery Method Recode (Revised)</b>	c386	A	1	Vaginal (excludes vaginal after previous C section)
						2	Vaginal after previous c-section
						3	Primary C-section
						4	Repeat C-section
						5	Vaginal (unknown if previous c-section) (2003 Standard only)
						6	C-section (unknown if previous c-section) (2003 Standard only)
						9	Not stated
278-279	2	<b><u>Method of Delivery</u></b>					
			The checkbox items indented below follow this structure:			1	Yes
						2	No
						9	Unknown or not stated
278	1	UME_FORCP	<b>Forceps</b>	416	A,S		
279	1	UME_VAC	<b>Vacuum</b>	417	A,S		
280	1	DMETH_REC	<b>Delivery Method Recode</b>	410	A,S	1	Vaginal
						2	C-section
						9	Not stated

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
281-282	2		<b><u>Maternal Morbidity</u></b> The checkbox items indented below follow this structure:		A	Y N U	Yes No Unknown or not stated
281	1	MM_RUPT	<b>Ruptured Uterus</b>	391			
282	1	MM_ICU	<b>Admit to Intensive Care</b>	392			
283	1	ATTEND	<b>Attendant</b>	433	A,S	1 2 3 4 5 9	Doctor of Medicine (MD) Doctor of Osteopathy (DO) Certified Nurse Midwife (CNM) Other Midwife Other Unknown or not stated
284-300	17	FILLER					
301	1	DPLURAL	<b>Plurality Recode</b>		A,S	1 2 3 4 5	Single Twin Triplet Quadruplet Quintuplet or higher
302	1	FILLER					
303	1	IMP_PLUR	<b>Plurality Imputed</b>		A,S	Blank 1	Plurality is not imputed Plurality is imputed
304-305	2	FILLER					
306	1	SetOrder_R	<b>Set Order Recode</b>	c409	A	1 2 3 4 5 9	1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> to 16 <sup>th</sup> Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
307-315	9	FILLER					
316	1	SEX	<b>Sex of Infant</b>		A,S	M F	Male Female
317	1	IMP_SEX	<b>Sex Imputed</b> Only where gestation is stated or presumed to be 20 weeks or more		A,S	Blank 1	Infant Sex not Imputed Infant Sex is Imputed
<b><u>Gestation</u></b>							
318-319	2	DLMP_MM	<b>Last Normal Menses Month</b>	429	A,S	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
320-321	2	FILLER					
322-325	4	DLMP_YY	<b>Last Normal Menses Year</b>	431	A,S	nnnn 9999	Year of last normal menses Unknown or not stated
326-328	3	FILLER					
329	1	GEST_IMP	<b>Gestation Imputed Flag</b>		A,S	Blank 1	Gestation is not imputed Gestation is imputed
330	1	OBGEST_FLG	<b>Obstetric Estimate of Gestation Used Flag</b>		A,S	Blank	Obstetric Estimate is not used

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						1	Obstetric Estimate is used
331-332	2	COMBGEST	<b>Gestation – Detail in Weeks</b>	404	A,S	02-47 99	2 <sup>nd</sup> through 47 <sup>th</sup> week of Gestation Unknown
333-334	2	GESTREC12	<b>Gestation Recode 12</b>	404	A,S	01 02 03 04 05 06 07 08 09 10 11 12	Under 16 weeks 16-19 weeks 20-23 weeks 24-27 weeks 28-31 weeks 32-33 weeks 34-36 weeks 37-38 weeks 39-40 weeks 41 weeks 42 weeks and over Unknown
335	1	GESTREC5	<b>Gestation Recode 5</b>	404	A,S	1 2 3 4 5	Under 20 weeks 20-23 weeks 24-27 weeks 28 weeks and over Unknown
336-337	2	OEGest_Unedt	<b>Obstetric Gestation</b> 373	A,S		0-98 02-47 99	Range of obstetric estimate of gestation - revised Range of clinical estimate of gestation - unrevised Unknown or not stated
338	1	FILLER					
339	1	COMBGEST_USED	<b>Combined Gestation Used Flag</b>		A,S	blank 1	Combined gestation not used Combined gestation used
340-341	2	OEGest_Comb	<b>Obstetric Estimate Edited</b> (NCHS Standard item)	373	A,S	02-47 99	Weeks of gestation Not stated
342-343	2	OEGest_R12	<b>Obstetric Estimate Recode12</b> (NCHS Standard item)	373	A,S	01 02 03	Under 16 weeks 16-19 weeks 20-23 weeks

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						04	24-27 weeks
						05	28-31 weeks
						06	32-33 weeks
						07	34-36 weeks
						08	37-38 weeks
						09	39-40 weeks
						10	41 weeks
						11	42 weeks and over
						12	Unknown
344	1	OEGest_R5	<b>Obstetric Estimate Recode 5</b> (NCHS Standard item)	373	A,S	1	Under 20 weeks
						2	20-23 weeks
						3	24-27 weeks
						4	28 weeks and over
						5	Unknown
345-348	4	FILLER					
349-352	4	DBWT	<b>Birth Weight – Detail in Grams</b>		A,S	0001-8165	Number of grams
						9999	Not stated birth weight
353-354	2	BWTR14	<b>Birth Weight Recode 14</b>		A,S	01	0249 grams or less
						02	0250 – 0349 grams
						03	0350 – 0499 grams
						04	0500 – 0999 grams
						05	1000 – 1499 grams
						06	1500 – 1999 grams
						07	2000 – 2499 grams
						08	2500 – 2999 grams
						09	3000 – 3499 grams
						10	3500 – 3999 grams
						11	4000 – 4499 grams
						12	4500 – 4999 grams
						13	5000 – 8165 grams

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						14	Unknown or Not Stated
355	1	BWTR4	<b>Birth Weight Recode 4</b>		A,S	1 2 3 4	1499 grams or less 1500 – 2499 grams 2500 - 8165 grams Unknown or not stated
356	1	FILLER					
357	1	ESTOFD	<b>Estimated Time of Fetal Death</b>	435	A	N L A U	At assessment, no labor At assessment, labor Labor, no assessment Unknown
358	1	AUTOPSY	<b>Was Autopsy Performed?</b>	436	A	Y N P	Yes No Planned
359	1	HISTOPF	<b>Was Histological Placental Exam Performed?</b>	437	A	Y N P	Yes No Planned
360	1	AUTOPF	<b>Was Autop/Hist results used in cause?</b>	438	A	Y N X	Yes No Not applicable
361-371	11	FILLER					
372-438		<b><u>Flag File for Reporting Flags</u></b>					
		The reporting flags indented below follow this coding structure:				0 1	Not reporting Reporting
372	1	F_MEDUC	Education of Mother		A		
373	1	F_CLINEST	Obstetric Estimate of Gestation		A,S		
374	1	F_TOBACO	Tobacco Use		A		
375	1	F_M_HT	Mother's Height		A		
376	1	F_PWGT	Prepregnancy Weight		A		
377	1	F_WIC	WIC		A		

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
378	1	F_RF_PDIAB	Prepregnancy Diabetes		A		
379	1	F_RF_GDIAB	Gestational Diabetes		A		
380	1	F_RF_PHYPER	Prepregnancy Hypertension		A		
381	1	F_RF_GHYPER	Gestational Hypertension		A		
382	1	F_RF_ECLAMP	Hypertension Eclampsia		A		
383	1	F_RF_INFT	Infertility Treatment		A		
384	1	F_RF_INFT_DRG	Fertility Enhance Drug		A		
385	1	F_RF_INFT_ART	Reproductive Technology		A		
386	1	F_RF_CESAR	Previous Cesarean		A		
387	1	F_RF_NCESAR	Number of Previous Cesareans		A		
388	1	F_MD_PRESENT	Fetal Presentation		A		
389	1	F_MD_ROUTE	Final Route and Method of Delivery		A		
390	1	F_MD_TRIAL	Trial of Labor Attempted		A		
391	1	F_MM_RUPTUR	Ruptured Uterus		A		
392	1	F_MM_ICU	Admission to Intensive Care		A		
393-402	10	FILLER					
403	1	F_MPCB	Month Prenatal Care Began		A		
404	1	F_CMBGST	Combined Gestation		A,S		
405	1	F_CIGS_0	Cigarettes Before Pregnancy		A		
406	1	F_CIGS_1	Cigarettes 1 <sup>st</sup> Trimester		A		
407	1	F_CIGS_2	Cigarettes 2 <sup>nd</sup> Trimester		A		
408	1	F_CIGS_3	Cigarettes 3 <sup>rd</sup> Trimester		A		
409	1	F_FACILITY	Facility		A		
410	1	DelMethRecF	Delivery Method Recode Flag		A,S		
411	1	F_URF_DIABETES	Diabetes Flag		A,S		
412	1	F_URF_CHYPER	Chron Hyper Flag		A,S		
413	1	F_URF_PHYPER	Preg Assoc Hyper Flag		A,S		
414	1	F_URF_ECLAMP	Eclampsia		A,S		
415	1	F_ULD_BREECH	Breech Flag		A,S		
416	1	F_U_FORCEP	Forceps Flag		A,S		
417	1	F_U_VACUUM	Vacuum Flag		A,S		
418-423	6	FILLER					
424	1	F_MORIGIN	Mother's Hispanic origin		A,S		
425	1	F_MRACE_R	Mother's Race (Revised)		A		
426	1	F_FAGE_u	Father's Age		A,S		
427	1	F_DLLB_MM	Last Live Birth Month (Revised)		A		
428	1	FILLER					
429	1	F_DLMP_MM	Last normal menses month		A,S		
430	1	FILLER					
431	1	F_DLMP_YY	Last normal menses year		A,S		
432	1	F_MAGE	Mother's Age		A,S		

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

A 2003 Version of US Standard Birth Certificate

S 1989 Version of US Standard Birth Certificate

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



Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
433	1	F_ATTENDANT	Attendant		A,S		
434	1	FILLER					
435	1	F_ESTOFD	Estimated Time of Fetal Death (Revised)		A		
436	1	F_AUTOPSY	Autopsy (Revised)		A		
437	1	F_HISTOPF	Histological Placental Exam (Revised)		A		
438	1	F_AUTOPF	Autopsy/Histological Exam Used in Cause		A		
439	1	F_MRACEREC	Mother's Bridged Race Recode		A,S		
440	1	F_PLB	Number of previous live births		A,S		
441-3050	2610	FILLER					
<b>3050</b>		<b>END OF RECORD</b>					

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

A 2003 Version of US Standard Birth Certificate

S 1989 Version of US Standard Birth Certificate

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

Table 1. Number of fetal deaths and fetal mortality rates: United States, 1985, 1990, and 1995-2016

	Fetal deaths			Fetal mortality rate\1		
	Total\2	20-27 weeks\3	28 weeks or more\3	Total\2	20-27 weeks\3	28 weeks or more\3
Obstetric estimate of gestation						
2016	23,880	12,486	11,394	6.02	3.15	2.88
2015	23,776	12,407	11,369	5.94	3.11	2.85
2014\4	23,980	12,652	11,328	5.98	3.16	2.83
LMP-based gestation						
2016\5	23,945	11,864	12,081	6.03	3.00	3.05
2015\5	23,813	11,741	12,072	5.95	2.94	3.03
2014\5	23,999	11,948	12,051	5.98	2.99	3.01
2013\5	23,595	11,874	11,721	5.96	3.01	2.97
2012\5	24,073	12,334	11,739	6.05	3.11	2.96
2011\5	24,289	12,432	11,857	6.11	3.13	2.99
2010\5	24,258	12,388	11,870	6.03	3.09	2.96
2009\5	24,872	12,813	12,059	5.99	3.09	2.91
2008\5	26,335	13,347	12,988	6.16	3.13	3.05
2007\5	26,593	13,822	12,771	6.12	3.19	2.95
2006\5	25,972	13,270	12,702	6.05	3.10	2.97
2005\5	25,894	13,327	12,567	6.22	3.21	3.03
2004\5,6	26,001	13,068	12,933	6.28	3.17	3.14
2003\5,6	26,004	13,348	12,656	6.32	3.25	3.08
2002\5	25,943	13,072	12,871	6.41	3.24	3.19
2001\5	26,373	13,122	13,251	6.51	3.25	3.28
2000\5	27,003	13,497	13,506	6.61	3.31	3.32
1999\5	26,884	13,457	13,427	6.74	3.39	3.38
1998\5	26,702	13,229	13,473	6.73	3.35	3.41
1997\5	26,486	12,800	13,686	6.78	3.29	3.51
1996\5	27,069	12,990	14,079	6.91	3.33	3.60
1995\5	27,294	13,043	14,251	6.95	3.33	3.64
1990\5	31,386	13,427	17,959	7.49	3.22	4.30
1985\5	29,661	10,958	18,703	7.83	2.91	4.95

\1Rate is number of fetal deaths in specified group per 1,000 live births and fetal deaths.

\2Fetal deaths with stated or presumed period of gestation of 20 weeks or more.

\3Not stated gestational age proportionally distributed.

\4Beginning with the 2014 data year, the obstetric estimate of gestation at delivery replaces the measure based on the date of last normal menses as the standard for measuring gestational age.

\5Date of last normal menses was used for measuring gestational age.

\6Rates have been revised from those published previously; see Technical notes.

NOTE: LMP refers to the date of the mother's last normal menses.

SOURCE: NCHS/CDC/National Vital Statistics System.

Table 2. Fetal Deaths by Period of Gestation and Mother's Residence: United States, Each State and Territory, 2016

[Nonresidents of the United States are excluded]

State/territory of residence	Fetal Deaths with Stated or Presumed Gestation of 20 weeks or More			
	Total	20-27 Weeks	28 Weeks and Over	Not stated
United States <sup>1</sup>	23,880	12,422	11,336	122
Alabama	558	302	253	3
Alaska	77	31	46	-
Arizona	464	227	233	4
Arkansas	211	81	130	-
California	2,510	1,275	1,224	11
Colorado	393	207	186	-
Connecticut	149	71	76	2
Delaware	55	26	27	2
District of Columbia	86	53	31	2
Florida	1,572	855	697	20
Georgia	1,073	593	474	6
Hawaii	118	70	47	1
Idaho	112	53	59	-
Illinois	968	544	421	3
Indiana	509	259	247	3
Iowa	193	92	101	-
Kansas	254	113	139	2
Kentucky	345	170	173	2
Louisiana	390	209	175	6
Maine	41	18	23	-
Maryland	550	327	223	-
Massachusetts	331	150	181	-
Michigan	639	326	304	9
Minnesota	378	187	191	-
Mississippi	399	235	163	1
Missouri	463	233	229	1
Montana	52	22	30	-
Nebraska	152	65	87	-
Nevada	267	142	123	2
New Hampshire	71	25	44	2
New Jersey	699	422	273	4
New Mexico	83	32	51	-
New York	665	329	333	3
New York City	861	503	358	-
North Carolina	824	409	415	-
North Dakota	71	36	35	-
Ohio	913	489	421	3
Oklahoma	333	151	180	2
Oregon	209	101	108	-
Pennsylvania	856	434	422	-
Rhode Island	67	31	35	1
South Carolina	450	239	209	2

Fetal Deaths with Stated or Presumed Gestation of 20 weeks or  
More

State/territory of residence	Total	20-27 Weeks	28 Weeks and Over	Not stated
South Dakota	87	43	44	-
Tennessee	592	291	298	3
Texas	1,891	940	943	8
Utah	301	149	152	-
Vermont	30	20	10	-
Virginia	597	317	274	6
Washington	491	275	211	5
West Virginia	109	48	60	1
Wisconsin	332	175	155	2
Wyoming	39	27	12	-
American Samoa	6	-	5	1
Guam	43	17	26	-
Northern Marianas	5	2	3	-
Puerto Rico	306	179	124	3
Virgin Islands	19	6	9	4

- Quantity zero.

1 Excludes data for the territories.

Table 3. Fetal Deaths by Period of Gestation and State/Territory of Occurrence: United States, 2016

State / territory	All Fetal Deaths			
	Total	Under 20 Weeks	20 Weeks and Over	Not stated
United States <sup>1</sup>	51,391	25,916	23,799	1,676
Alabama	546	-	543	3
Alaska	82	10	72	-
Arizona	470	-	466	4
Arkansas	208	-	208	-
California	2,514	2	2,500	12
Colorado	410	-	410	-
Connecticut	155	-	154	1
Delaware	54	2	51	1
District of Columbia	130	-	128	2
Florida	1,589	1	1,568	20
Georgia	8,933	7,239	1,091	603
Hawaii	804	630	118	56
Idaho	128	15	113	-
Illinois	939	-	936	3
Indiana	515	-	512	3
Iowa	182	-	182	-
Kansas	267	-	265	2
Kentucky	324	-	323	1
Louisiana	419	34	379	6
Maine	41	-	41	-
Maryland	524	1	522	1
Massachusetts	337	1	336	-
Michigan	641	8	624	9
Minnesota	437	64	373	-
Mississippi	392	6	385	1
Missouri	489	11	477	1
Montana	48	1	47	-
Nebraska	151	-	151	-
Nevada	277	7	269	1
New Hampshire	71	-	69	2
New Jersey	766	65	697	4
New Mexico	78	7	71	-
New York	5,170	3,968	592	610
New York City	9,826	8,879	938	9
North Carolina	825	-	825	-
North Dakota	82	-	82	-
Ohio	907	-	904	3
Oklahoma	329	1	325	3
Oregon	258	50	208	-
Pennsylvania	1,289	441	848	-
Rhode Island	734	632	67	35
South Carolina	444	7	435	2

All Fetal Deaths

State / territory	Total	Under 20 Weeks	20 Weeks and Over	Not stated
South Dakota	104	6	98	-
Tennessee	646	9	633	4
Texas	2,142	228	1,906	8
Utah	316	-	316	-
Vermont	26	-	26	-
Virginia	4,405	3,573	574	258
Washington	504	10	489	5
West Virginia	112	7	104	1
Wisconsin	326	1	323	2
Wyoming	25	-	25	-
American Samoa	6	-	5	1
Guam	43	-	43	-
Northern Marianas	6	-	6	-
Puerto Rico	307	-	304	3
Virgin Islands	23	4	14	5

- Quantity zero.

1 Excludes data for the territories.

Fetal Death Documentation Table 4A

Fetal deaths and percent distribution by month of delivery: United States and each reporting area, 2016

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

State	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	Number												
TOTAL	2,031	1,820	2,015	2,011	1,999	2,085	2,131	2,109	1,976	1,960	1,885	1,858	23,880
Alabama	58	36	36	35	49	57	52	55	47	48	42	43	558
Alaska	2	10	6	9	8	7	5	9	9	4	1	7	77
Arizona	44	25	35	37	34	46	50	43	32	37	44	37	464
Arkansas	22	12	16	12	19	17	21	25	16	14	23	14	211
California	205	168	208	209	233	210	226	214	206	211	210	210	2,510
Colorado	36	24	32	37	33	34	32	41	27	36	29	32	393
Connecticut	19	9	10	11	12	18	15	7	12	8	18	10	149
Delaware	3	2	2	7	5	7	6	3	4	4	8	4	55
District of Columbia	6	10	1	8	9	7	6	8	7	12	6	6	86
Florida	128	126	134	130	129	119	158	133	131	142	127	115	1,572
Georgia	85	83	90	90	100	89	91	96	93	99	81	76	1,073
Hawaii	12	8	10	10	9	13	6	12	11	7	11	9	118
Idaho	11	7	6	7	6	8	14	12	15	10	9	7	112
Illinois	68	84	91	90	67	87	91	83	75	90	78	64	968
Indiana	50	43	29	51	47	41	43	46	47	30	37	45	509
Iowa	13	10	26	17	12	19	16	17	10	17	18	18	193
Kansas	18	22	21	29	24	24	23	22	15	17	22	17	254
Kentucky	35	29	28	25	31	30	31	18	32	32	25	29	345
Louisiana	44	35	22	27	30	36	37	36	33	31	29	30	390
Maine	6	7	2	2	1	3	3	4	2	4	1	6	41
Maryland	42	56	54	47	40	44	50	49	43	39	39	47	550
Massachusetts	27	22	32	28	23	33	29	25	20	29	35	28	331
Michigan	54	53	68	49	43	56	61	65	46	43	54	47	639
Minnesota	31	29	30	34	38	30	38	40	37	27	28	16	378
Mississippi	35	22	34	31	29	40	36	41	35	25	37	34	399
Missouri	42	39	43	27	49	37	35	40	45	38	30	38	463
Montana	7	2	6	6	3	7	3	1	5	2	5	5	52
Nebraska	10	18	8	11	16	9	18	10	14	10	16	12	152
Nevada	22	18	27	15	21	27	25	22	22	17	24	27	267
New Hampshire	8	8	4	3	6	13	2	6	4	1	11	5	71
New Jersey	60	41	61	58	44	71	58	67	72	50	60	57	699
New Mexico	10	4	10	4	8	9	8	8	6	8	6	2	83
New York	53	56	53	60	47	56	57	51	53	72	50	57	665
New York City	71	53	80	68	75	75	66	82	86	66	77	62	861
North Carolina	81	54	76	61	83	76	59	70	63	85	52	64	824
North Dakota	3	9	9	8	5	3	9	9	6	3	4	3	71
Ohio	78	65	76	76	104	82	60	93	81	64	73	61	913
Oklahoma	20	26	27	34	34	35	28	37	17	23	18	34	333
Oregon	21	10	18	23	12	26	13	20	18	19	18	11	209
Pennsylvania	70	74	56	62	76	72	68	81	83	69	62	83	856
Rhode Island	5	5	6	8	6	4	7	4	4	4	7	7	67
South Carolina	34	35	45	52	30	41	57	24	33	34	25	40	450
South Dakota	7	8	3	7	12	7	14	1	4	8	7	9	87
Tennessee	46	41	50	68	44	52	50	58	42	64	29	48	592
Texas	168	163	150	174	156	146	177	147	160	157	153	140	1,891
Utah	30	22	20	21	28	18	29	37	19	26	26	25	301
Vermont	1	4	8	3	-	-	1	4	4	1	2	2	30
Virginia	54	48	64	53	41	58	59	40	55	50	39	36	597
Washington	35	39	49	36	32	40	47	48	44	41	41	39	491
West Virginia	12	13	11	11	4	5	12	8	10	7	9	7	109
Wisconsin	27	32	26	28	28	36	28	33	17	23	26	28	332
Wyoming	2	1	6	2	4	5	1	4	4	2	3	5	39

State	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	Percent												
TOTAL	8.5	7.6	8.4	8.4	8.4	8.7	8.9	8.8	8.3	8.2	7.9	7.8	100.0
Alabama	10.4	6.5	6.5	6.3	8.8	10.2	9.3	9.9	8.4	8.6	7.5	7.7	100.0
Alaska	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Arizona	9.5	5.4	7.5	8.0	7.3	9.9	10.8	9.3	6.9	8.0	9.5	8.0	100.0
Arkansas	10.4	*	*	*	*	*	10.0	11.8	*	*	10.9	*	100.0
California	8.2	6.7	8.3	8.3	9.3	8.4	9.0	8.5	8.2	8.4	8.4	8.4	100.0
Colorado	9.2	6.1	8.1	9.4	8.4	8.7	8.1	10.4	6.9	9.2	7.4	8.1	100.0
Connecticut	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Delaware	*	*	*	*	*	*	*	*	*	*	*	*	100.0
District of Columbia	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Florida	8.1	8.0	8.5	8.3	8.2	7.6	10.1	8.5	8.3	9.0	8.1	7.3	100.0
Georgia	7.9	7.7	8.4	8.4	9.3	8.3	8.5	8.9	8.7	9.2	7.5	7.1	100.0
Hawaii	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Idaho	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Illinois	7.0	8.7	9.4	9.3	6.9	9.0	9.4	8.6	7.7	9.3	8.1	6.6	100.0
Indiana	9.8	8.4	5.7	10.0	9.2	8.1	8.4	9.0	9.2	5.9	7.3	8.8	100.0
Iowa	*	*	13.5	*	*	*	*	*	*	*	*	*	100.0
Kansas	*	8.7	8.3	11.4	9.4	9.4	9.1	8.7	*	*	8.7	*	100.0
Kentucky	10.1	8.4	8.1	7.2	9.0	8.7	9.0	*	9.3	9.3	7.2	8.4	100.0
Louisiana	11.3	9.0	5.6	6.9	7.7	9.2	9.5	9.2	8.5	7.9	7.4	7.7	100.0
Maine	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Maryland	7.6	10.2	9.8	8.5	7.3	8.0	9.1	8.9	7.8	7.1	7.1	8.5	100.0
Massachusetts	8.2	6.6	9.7	8.5	6.9	10.0	8.8	7.6	6.0	8.8	10.6	8.5	100.0
Michigan	8.5	8.3	10.6	7.7	6.7	8.8	9.5	10.2	7.2	6.7	8.5	7.4	100.0
Minnesota	8.2	7.7	7.9	9.0	10.1	7.9	10.1	10.6	9.8	7.1	7.4	*	100.0
Mississippi	8.8	5.5	8.5	7.8	7.3	10.0	9.0	10.3	8.8	6.3	9.3	8.5	100.0
Missouri	9.1	8.4	9.3	5.8	10.6	8.0	7.6	8.6	9.7	8.2	6.5	8.2	100.0
Montana	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Nebraska	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Nevada	8.2	*	10.1	*	7.9	10.1	9.4	8.2	8.2	*	9.0	10.1	100.0
New Hampshire	*	*	*	*	*	*	*	*	*	*	*	*	100.0
New Jersey	8.6	5.9	8.7	8.3	6.3	10.2	8.3	9.6	10.3	7.2	8.6	8.2	100.0
New Mexico	*	*	*	*	*	*	*	*	*	*	*	*	100.0
New York	8.0	8.4	8.0	9.0	7.1	8.4	8.6	7.7	8.0	10.8	7.5	8.6	100.0
New York City	8.2	6.2	9.3	7.9	8.7	8.7	7.7	9.5	10.0	7.7	8.9	7.2	100.0
North Carolina	9.8	6.6	9.2	7.4	10.1	9.2	7.2	8.5	7.6	10.3	6.3	7.8	100.0
North Dakota	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Ohio	8.5	7.1	8.3	8.3	11.4	9.0	6.6	10.2	8.9	7.0	8.0	6.7	100.0
Oklahoma	6.0	7.8	8.1	10.2	10.2	10.5	8.4	11.1	*	6.9	*	10.2	100.0
Oregon	10.0	*	*	11.0	*	12.4	*	9.6	*	*	*	*	100.0
Pennsylvania	8.2	8.6	6.5	7.2	8.9	8.4	7.9	9.5	9.7	8.1	7.2	9.7	100.0
Rhode Island	*	*	*	*	*	*	*	*	*	*	*	*	100.0
South Carolina	7.6	7.8	10.0	11.6	6.7	9.1	12.7	5.3	7.3	7.6	5.6	8.9	100.0
South Dakota	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Tennessee	7.8	6.9	8.4	11.5	7.4	8.8	8.4	9.8	7.1	10.8	4.9	8.1	100.0
Texas	8.9	8.6	7.9	9.2	8.2	7.7	9.4	7.8	8.5	8.3	8.1	7.4	100.0
Utah	10.0	7.3	6.6	7.0	9.3	*	9.6	12.3	*	8.6	8.6	8.3	100.0
Vermont	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Virginia	9.0	8.0	10.7	8.9	6.9	9.7	9.9	6.7	9.2	8.4	6.5	6.0	100.0
Washington	7.1	7.9	10.0	7.3	6.5	8.1	9.6	9.8	9.0	8.4	8.4	7.9	100.0
West Virginia	*	*	*	*	*	*	*	*	*	*	*	*	100.0
Wisconsin	8.1	9.6	7.8	8.4	8.4	10.8	8.4	9.9	*	6.9	7.8	8.4	100.0
Wyoming	*	*	*	*	*	*	*	*	*	*	*	*	100.0

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

- Quantity zero.



**Fetal Death Documentation Table 4B**  
**Fetal deaths by month of delivery: U.S. territories, 2016**  
 [Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

<b>Territory</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Total</b>
TOTAL	25	20	39	41	27	34	39	36	24	25	38	31	379
American Samoa	-	1	-	-	1	1	-	1	2	-	-	-	6
Guam	4	-	5	4	4	1	3	5	3	3	2	9	43
Northern Marianas	-	-	-	-	1	-	1	1	-	-	2	-	5
Puerto Rico	20	18	30	37	19	29	35	25	17	21	33	22	306
Virgin Islands	1	1	4	-	2	3	-	4	2	1	1	-	19

- Quantity zero.

**Fetal Death Documentation Table 5A**  
**Fetal deaths and percent distribution by race of mother:**  
**United States and each reporting area, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

State	White	Black	American Indian or Alaska native	Asian or Pacific Islander	Total
			Number		
TOTAL	15,339	6,900	284	1,357	23,880
Alabama	288	262	-	8	558
Alaska	46	3	18	10	77
Arizona	362	50	34	18	464
Arkansas	128	78	1	4	211
California	1,883	294	16	317	2,510
Colorado	330	47	2	14	393
Connecticut	94	48	-	7	149
Delaware	23	30	-	2	55
District of Columbia	10	75	-	1	86
Florida	875	658	2	37	1,572
Georgia	441	593	4	35	1,073
Hawaii	27	9	2	80	118
Idaho	105	2	4	1	112
Illinois	590	332	1	45	968
Indiana	393	104	1	11	509
Iowa	161	21	1	10	193
Kansas	194	43	5	12	254
Kentucky	279	56	1	9	345
Louisiana	151	231	4	4	390
Maine	35	5	-	1	41
Maryland	252	278	-	20	550
Massachusetts	219	85	3	24	331
Michigan	431	186	2	20	639
Minnesota	259	72	15	32	378
Mississippi	125	271	1	2	399
Missouri	336	113	1	13	463
Montana	44	1	5	2	52
Nebraska	103	31	12	6	152
Nevada	200	46	8	13	267
New Hampshire	64	2	-	5	71
New Jersey	411	220	-	68	699
New Mexico	65	3	15	-	83
New York	524	120	2	19	665
New York City	340	400	-	121	861
North Carolina	430	357	10	27	824
North Dakota	49	11	10	1	71
Ohio	630	257	-	26	913
Oklahoma	230	56	35	12	333
Oregon	173	12	5	19	209
Pennsylvania	581	240	-	35	856
Rhode Island	56	7	2	2	67
South Carolina	225	214	1	10	450
South Dakota	52	3	30	2	87
Tennessee	367	211	2	12	592
Texas	1,365	431	2	93	1,891
Utah	272	6	4	19	301
Vermont	29	1	-	-	30
Virginia	348	210	-	39	597
Washington	365	42	11	73	491
West Virginia	94	14	-	1	109
Wisconsin	252	56	9	15	332
Wyoming	33	3	3	-	39

State	White	Black	American Indian or Alaska native Percent	Asian or Pacific Islander	Total
TOTAL	64.2	28.9	1.2	5.7	100.0
Alabama	51.6	47.0	*	*	100.0
Alaska	59.7	*	*	*	100.0
Arizona	78.0	10.8	7.3	*	100.0
Arkansas	60.7	37.0	*	*	100.0
California	75.0	11.7	*	12.6	100.0
Colorado	84.0	12.0	*	*	100.0
Connecticut	63.1	32.2	*	*	100.0
Delaware	41.8	54.5	*	*	100.0
District of Columbia	*	87.2	*	*	100.0
Florida	55.7	41.9	*	2.4	100.0
Georgia	41.1	55.3	*	3.3	100.0
Hawaii	22.9	*	*	67.8	100.0
Idaho	93.8	*	*	*	100.0
Illinois	61.0	34.3	*	4.6	100.0
Indiana	77.2	20.4	*	*	100.0
Iowa	83.4	10.9	*	*	100.0
Kansas	76.4	16.9	*	*	100.0
Kentucky	80.9	16.2	*	*	100.0
Louisiana	38.7	59.2	*	*	100.0
Maine	85.4	*	*	*	100.0
Maryland	45.8	50.5	*	3.6	100.0
Massachusetts	66.2	25.7	*	7.3	100.0
Michigan	67.4	29.1	*	3.1	100.0
Minnesota	68.5	19.0	*	8.5	100.0
Mississippi	31.3	67.9	*	*	100.0
Missouri	72.6	24.4	*	*	100.0
Montana	84.6	*	*	*	100.0
Nebraska	67.8	20.4	*	*	100.0
Nevada	74.9	17.2	*	*	100.0
New Hampshire	90.1	*	*	*	100.0
New Jersey	58.8	31.5	*	9.7	100.0
New Mexico	78.3	*	*	*	100.0
New York	78.8	18.0	*	*	100.0
New York City	39.5	46.5	*	14.1	100.0
North Carolina	52.2	43.3	*	3.3	100.0
North Dakota	69.0	*	*	*	100.0
Ohio	69.0	28.1	*	2.8	100.0
Oklahoma	69.1	16.8	10.5	*	100.0
Oregon	82.8	*	*	*	100.0
Pennsylvania	67.9	28.0	*	4.1	100.0
Rhode Island	83.6	*	*	*	100.0
South Carolina	50.0	47.6	*	*	100.0
South Dakota	59.8	*	34.5	*	100.0
Tennessee	62.0	35.6	*	*	100.0
Texas	72.2	22.8	*	4.9	100.0
Utah	90.4	*	*	*	100.0
Vermont	96.7	*	*	*	100.0
Virginia	58.3	35.2	*	6.5	100.0
Washington	74.3	8.6	*	14.9	100.0
West Virginia	86.2	*	*	*	100.0
Wisconsin	75.9	16.9	*	*	100.0
Wyoming	84.6	*	*	*	100.0

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

– Quantity zero.

**Fetal Death Documentation Table 5B**

**Fetal deaths by race of mother: U.S. territories, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Territory	White	Black	American Indian or Alaska native	Asian or Pacific Islander	Total
TOTAL	277	49	-	53	379
American Samoa	-	-	-	6	6
Guam	1	-	-	42	43
Northern Marianas	-	-	-	5	5
Puerto Rico	274	32	-	-	306
Virgin Islands	2	17	-	-	19

- Quantity zero.

Fetal Death Documentation Table 6A

Fetal deaths and percent distribution by race and Hispanic origin of mother: United States and each reporting area, 2016

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

State	Mexican	Puerto Rican	Cuban	Central and South American	Other and Unknown Hispanic	Non-Hispanic white	Non-Hispanic black	Non-Hispanic other races	Unknown	Total
	Number									
TOTAL	2,934	370	106	670	689	10,482	6,394	1,462	773	23,880
Alabama	22	1	-	9	3	255	261	7	-	558
Alaska	6	2	-	1	-	39	2	26	1	77
Arizona	160	1	-	12	12	177	48	48	6	464
Arkansas	15	1	-	2	1	110	75	4	3	211
California	937	17	3	111	130	652	261	309	90	2,510
Colorado	93	2	1	4	21	212	44	16	-	393
Connecticut	1	22	-	8	3	55	37	7	16	149
Delaware	1	1	-	1	-	21	29	2	-	55
District of Columbia	-	-	-	2	1	7	75	1	-	86
Florida	67	78	76	96	46	512	601	36	60	1,572
Georgia	82	2	-	17	13	325	554	35	45	1,073
Hawaii	10	7	-	1	8	13	2	47	30	118
Idaho	15	1	-	-	1	86	2	5	2	112
Illinois	165	9	1	7	4	407	321	42	12	968
Indiana	44	4	-	5	6	334	104	12	-	509
Iowa	13	-	-	1	-	143	21	11	4	193
Kansas	28	2	-	8	5	154	41	14	2	254
Kentucky	10	1	-	3	2	263	56	9	1	345
Louisiana	10	1	1	8	5	126	231	8	-	390
Maine	-	-	-	1	-	32	4	-	4	41
Maryland	6	3	-	46	19	182	260	19	15	550
Massachusetts	3	21	3	11	32	135	59	23	44	331
Michigan	25	2	-	-	14	388	176	22	12	639
Minnesota	17	2	-	5	2	231	69	46	6	378
Mississippi	5	1	-	1	-	116	266	3	7	399
Missouri	12	2	1	6	2	312	109	11	8	463
Montana	1	-	-	1	-	42	-	7	1	52
Nebraska	17	-	1	2	3	87	30	12	-	152
Nevada	67	2	1	19	5	108	44	18	3	267
New Hampshire	3	1	-	1	4	55	2	2	3	71
New Jersey	27	35	2	81	40	233	205	65	11	699
New Mexico	22	-	-	-	2	41	3	15	-	83
New York	6	8	-	18	51	417	111	16	38	665
New York City	34	44	1	34	80	135	264	98	171	861
North Carolina	56	8	-	21	5	352	341	37	4	824
North Dakota	2	-	-	-	-	46	11	11	1	71
Ohio	16	8	2	7	2	591	250	26	11	913
Oklahoma	31	5	-	2	2	189	50	45	9	333
Oregon	39	1	-	1	4	130	11	23	-	209
Pennsylvania	12	37	1	7	13	534	223	28	1	856
Rhode Island	-	-	-	2	3	28	5	2	27	67
South Carolina	22	3	-	14	2	178	209	10	12	450
South Dakota	1	-	-	3	-	49	2	32	-	87
Tennessee	29	1	1	7	3	326	210	12	3	592
Texas	668	16	10	49	93	547	420	87	1	1,891
Utah	27	1	-	7	10	228	6	22	-	301
Vermont	-	-	-	-	1	27	1	-	1	30
Virginia	14	10	1	24	22	254	178	37	57	597
Washington	62	5	-	1	9	264	38	69	43	491
West Virginia	-	-	-	-	1	91	14	1	2	109
Wisconsin	27	2	-	3	3	214	55	22	6	332
Wyoming	4	-	-	-	1	29	3	2	-	39

State	Mexican	Puerto Rican	Cuban	Central and South American	Other and Unknown Hispanic	Non-Hispanic white	Non-Hispanic black	Non-Hispanic other races	Total
	Percent								
TOTAL	12.7	1.6	0.5	2.9	3.0	45.4	27.7	6.3	100.0
Alabama	3.9	*	*	*	*	45.7	46.8	*	100.0
Alaska	*	*	*	*	*	51.3	*	34.2	100.0
Arizona	34.9	*	*	*	*	38.6	10.5	10.5	100.0
Arkansas	*	*	*	*	*	52.9	36.1	*	100.0
California	38.7	*	*	4.6	5.4	26.9	10.8	12.8	100.0
Colorado	23.7	*	*	*	5.3	53.9	11.2	*	100.0
Connecticut	*	16.5	*	*	*	41.4	27.8	*	100.0
Delaware	*	*	*	*	*	38.2	52.7	*	100.0
District of Columbia	*	*	*	*	*	*	87.2	*	100.0
Florida	4.4	5.2	5.0	6.3	3.0	33.9	39.7	2.4	100.0
Georgia	8.0	*	*	*	*	31.6	53.9	3.4	100.0
Hawaii	*	*	*	*	*	*	*	53.4	100.0
Idaho	*	*	*	*	*	78.2	*	*	100.0
Illinois	17.3	*	*	*	*	42.6	33.6	4.4	100.0
Indiana	8.6	*	*	*	*	65.6	20.4	*	100.0
Iowa	*	*	*	*	*	75.7	11.1	*	100.0
Kansas	11.1	*	*	*	*	61.1	16.3	*	100.0
Kentucky	*	*	*	*	*	76.5	16.3	*	100.0
Louisiana	*	*	*	*	*	32.3	59.2	*	100.0
Maine	*	*	*	*	*	86.5	*	*	100.0
Maryland	*	*	*	8.6	*	34.0	48.6	*	100.0
Massachusetts	*	7.3	*	*	11.1	47.0	20.6	8.0	100.0
Michigan	4.0	*	*	*	*	61.9	28.1	3.5	100.0
Minnesota	*	*	*	*	*	62.1	18.5	12.4	100.0
Mississippi	*	*	*	*	*	29.6	67.9	*	100.0
Missouri	*	*	*	*	*	68.6	24.0	*	100.0
Montana	*	*	*	*	*	82.4	*	*	100.0
Nebraska	*	*	*	*	*	57.2	19.7	*	100.0
Nevada	25.4	*	*	*	*	40.9	16.7	*	100.0
New Hampshire	*	*	*	*	*	80.9	*	*	100.0
New Jersey	3.9	5.1	*	11.8	5.8	33.9	29.8	9.4	100.0
New Mexico	26.5	*	*	*	*	49.4	*	*	100.0
New York	*	*	*	*	8.1	66.5	17.7	*	100.0
New York City	4.9	6.4	*	4.9	11.6	19.6	38.3	14.2	100.0
North Carolina	6.8	*	*	2.6	*	42.9	41.6	4.5	100.0
North Dakota	*	*	*	*	*	65.7	*	*	100.0
Ohio	*	*	*	*	*	65.5	27.7	2.9	100.0
Oklahoma	9.6	*	*	*	*	58.3	15.4	13.9	100.0
Oregon	18.7	*	*	*	*	62.2	*	11.0	100.0
Pennsylvania	*	4.3	*	*	*	62.5	26.1	3.3	100.0
Rhode Island	*	*	*	*	*	70.0	*	*	100.0
South Carolina	5.0	*	*	*	*	40.6	47.7	*	100.0
South Dakota	*	*	*	*	*	56.3	*	36.8	100.0
Tennessee	4.9	*	*	*	*	55.3	35.7	*	100.0
Texas	35.3	*	*	2.6	4.9	28.9	22.2	4.6	100.0
Utah	9.0	*	*	*	*	75.7	*	7.3	100.0
Vermont	*	*	*	*	*	93.1	*	*	100.0
Virginia	*	*	*	4.4	4.1	47.0	33.0	6.9	100.0
Washington	13.8	*	*	*	*	58.9	8.5	15.4	100.0
West Virginia	*	*	*	*	*	85.0	*	*	100.0
Wisconsin	8.3	*	*	*	*	65.6	16.9	6.7	100.0
Wyoming	*	*	*	*	*	74.4	*	*	100.0

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

– Quantity zero.

**Fetal Death Documentation Table 6B**

**Fetal deaths by race and Hispanic origin of mother: U.S. territories, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Territory	Mexican	Puerto Rican	Cuban	Central and South American	Other and Unknown Hispanic	Non-Hispanic white	Non-Hispanic black	Non-Hispanic other races	Unknown	Total
TOTAL	-	293	-	1	11	3	10	47	8	373
Guam	-	-	-	-	-	1	-	42	-	43
Northern Marianas	-	-	-	-	-	-	-	5	-	5
Puerto Rico	-	293	-	1	7	1	-	-	4	306
Virgin Islands	-	-	-	-	4	1	10	-	4	19

- Quantity zero.

1 American Samoa does not report mother's Hispanic origin.

Fetal Death Documentation Table 7A

Fetal deaths by age of mother (in years): United States and each reporting area, 2016

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

	<15	15	16	17	18	19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	Total
TOTAL	17	42	131	255	447	704	4,837	6,416	6,002	3,739	1,163	117	10	23,880
Alabama	1	-	4	7	15	27	137	161	121	71	13	1	-	558
Alaska	-	-	-	-	2	4	15	19	24	6	7	-	-	77
Arizona	-	-	2	7	12	13	91	121	115	67	33	3	-	464
Arkansas	-	-	1	5	3	10	57	58	52	20	5	-	-	211
California	2	6	4	23	43	72	428	674	624	458	152	22	2	2,510
Colorado	-	1	5	3	10	4	68	99	88	79	33	3	-	393
Connecticut	-	-	2	3	2	1	30	37	38	24	12	-	-	149
Delaware	-	-	-	1	3	1	12	18	11	7	2	-	-	55
District of Columbia	-	-	-	1	2	1	20	17	27	12	6	-	-	86
Florida	-	5	6	15	31	47	300	455	373	255	77	7	1	1,572
Georgia	1	3	12	12	28	28	246	273	267	151	46	6	-	1,073
Hawaii	-	-	1	2	2	2	13	34	29	28	6	1	-	118
Idaho	-	2	-	3	3	5	22	34	25	14	4	-	-	112
Illinois	-	-	5	8	19	24	193	241	266	159	50	3	-	968
Indiana	-	1	3	2	11	19	120	148	125	56	21	3	-	509
Iowa	-	-	1	-	5	8	50	53	47	21	7	1	-	193
Kansas	-	-	-	1	6	10	60	66	54	44	12	1	-	254
Kentucky	-	2	3	6	11	17	73	106	71	42	14	-	-	345
Louisiana	-	-	8	4	10	21	88	131	66	52	10	-	-	390
Maine	1	1	-	-	-	-	10	10	13	3	3	-	-	41
Maryland	-	1	1	4	5	14	76	140	172	96	36	5	-	550
Massachusetts	2	2	-	5	3	7	49	72	115	63	12	1	-	331
Michigan	1	1	3	7	9	22	149	167	171	86	22	1	-	639
Minnesota	-	-	1	1	4	5	55	99	123	68	21	1	-	378
Mississippi	1	-	-	5	5	19	138	103	71	37	18	2	-	399
Missouri	-	1	1	2	4	18	107	132	113	60	22	3	-	463
Montana	-	-	1	1	2	1	10	14	9	11	3	-	-	52
Nebraska	-	-	-	1	5	4	22	46	52	17	4	1	-	152
Nevada	-	2	3	-	4	8	50	69	71	45	13	2	-	267
New Hampshire	-	-	-	-	-	3	12	26	17	10	2	1	-	71
New Jersey	-	-	5	5	10	13	110	162	202	141	43	7	1	699
New Mexico	-	-	-	1	1	1	17	28	19	12	4	-	-	83
New York	-	-	3	17	7	16	111	157	193	117	35	8	1	665
New York City	-	1	1	6	10	17	124	200	231	204	58	8	1	861
North Carolina	1	-	4	6	17	26	194	223	195	120	37	1	-	824
North Dakota	-	-	-	-	-	4	11	22	20	10	4	-	-	71
Ohio	-	2	11	7	25	38	208	255	203	126	36	1	1	913
Oklahoma	1	2	1	4	6	6	82	97	89	38	7	-	-	333
Oregon	-	-	1	2	4	5	37	53	58	39	9	1	-	209
Pennsylvania	-	1	6	10	16	17	189	218	220	129	47	2	1	856
Rhode Island	-	-	-	-	-	1	14	22	15	10	5	-	-	67
South Carolina	-	1	4	4	11	15	109	127	103	59	16	1	-	450
South Dakota	-	-	1	-	5	3	14	29	18	15	2	-	-	87
Tennessee	2	1	5	13	13	20	140	167	146	64	20	1	-	592
Texas	2	5	16	31	40	52	456	504	419	268	90	7	1	1,891
Utah	-	1	2	4	1	8	39	87	86	53	19	-	1	301
Vermont	-	-	-	-	-	1	6	8	11	4	-	-	-	30
Virginia	1	-	-	4	9	15	111	160	156	108	27	6	-	597
Washington	-	-	2	5	8	12	79	138	141	83	20	3	-	491
West Virginia	1	-	-	4	1	7	25	30	23	10	7	1	-	109
Wisconsin	-	-	2	3	4	9	50	98	94	61	10	1	-	332
Wyoming	-	-	-	-	-	3	10	8	10	6	1	1	-	39

- Quantity zero.



**Fetal Death Documentation Table 7B**

**Fetal deaths by age of mother: U.S. territories, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Territory	<15	15	16	17	18	19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	Total
TOTAL	-	1	3	6	13	18	108	99	70	43	17	-	1	379
American Samoa	-	-	-	-	-	-	2	1	2	1	-	-	-	6
Guam	-	-	-	-	1	2	8	13	9	6	4	-	-	43
Northern Marianas	-	-	-	-	-	-	2	2	-	-	1	-	-	5
Puerto Rico	-	1	3	6	12	14	92	79	56	31	11	-	1	306
Virgin Islands	-	-	-	-	-	2	4	4	3	5	1	-	-	19

- Quantity zero.

**Fetal Death Documentation Table 8A**

**Fetal deaths by age of father (in years) : Total of 49 states and DC and each reporting area, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

State	<15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-98	Unknown	Total
TOTAL	2	483	2,504	3,981	4,504	3,259	1,625	618	234	106	5,967	23,283
Alabama	-	1	27	55	62	43	20	8	2	1	339	558
Alaska	-	2	10	10	21	7	8	3	-	-	16	77
Arizona	-	14	63	86	106	85	38	15	8	3	46	464
Arkansas	-	4	16	27	27	15	12	3	2	-	105	211
California	-	64	290	477	579	455	233	110	36	22	244	2,510
Colorado	-	13	46	79	99	70	31	12	5	1	37	393
Connecticut	-	5	20	25	23	25	17	2	5	1	26	149
Delaware	-	2	9	11	7	4	7	1	-	-	14	55
District of Columbia	-	-	6	6	6	4	4	-	1	-	59	86
Florida	-	35	191	328	322	241	155	60	27	8	205	1,572
Georgia	-	15	64	108	116	74	41	15	13	2	625	1,073
Hawaii	-	-	12	14	22	9	9	5	-	-	47	118
Idaho	-	2	21	20	23	15	5	2	2	-	22	112
Illinois	-	26	114	157	207	157	74	32	10	2	189	968
Indiana	-	16	77	124	113	75	33	13	6	3	49	509
Iowa	-	2	33	52	45	26	12	7	1	-	15	193
Kansas	-	9	43	42	65	33	19	8	-	1	34	254
Kentucky	-	8	26	54	54	36	12	3	2	-	150	345
Louisiana	-	9	47	81	65	47	17	8	3	1	112	390
Maine	-	-	6	8	6	6	4	1	-	2	8	41
Maryland	-	4	61	96	133	101	37	21	9	8	80	550
Massachusetts	-	5	19	46	76	58	22	4	4	4	93	331
Michigan	-	14	88	127	115	98	44	14	8	1	130	639
Minnesota	-	4	35	72	89	78	36	16	1	-	47	378
Mississippi	-	6	47	62	42	33	18	5	2	1	183	399
Missouri	-	16	56	92	96	77	29	9	2	3	83	463
Montana	-	-	7	12	10	9	6	-	1	-	7	52
Nebraska	-	5	18	37	41	29	8	3	1	-	10	152
Nevada	-	1	16	36	42	35	22	5	5	2	103	267
New Hampshire	-	1	5	15	15	7	5	3	2	-	18	71
New Jersey	-	11	49	99	139	127	62	37	8	3	164	699
New Mexico	-	1	11	14	15	5	2	2	1	-	32	83
New York	-	5	31	47	78	51	26	6	3	2	416	665
New York City	-	3	41	73	91	90	51	21	12	5	474	861
North Carolina	-	6	77	135	142	89	50	8	7	3	307	824
North Dakota	-	-	12	15	17	12	7	-	-	-	8	71
Ohio	-	29	143	187	209	135	60	21	6	5	118	913
Oklahoma	1	15	56	73	71	42	17	5	4	-	49	333
Oregon	-	7	25	33	55	38	12	8	2	1	28	209
Pennsylvania	-	29	99	178	179	135	71	31	6	3	125	856
Rhode Island	-	-	2	20	14	8	4	4	-	-	15	67
South Carolina	-	1	23	42	64	36	17	6	-	-	261	450
South Dakota	-	8	15	19	20	12	1	1	1	-	10	87
Tennessee	-	12	28	74	77	50	22	4	5	-	320	592
Texas	1	60	314	386	421	264	158	51	18	11	207	1,891
Utah	-	3	30	59	76	67	26	5	1	2	32	301
Vermont	-	-	5	8	5	8	-	-	-	-	4	30
Washington	-	7	48	87	124	94	32	11	1	4	83	491
West Virginia	-	1	10	17	15	12	4	6	-	1	43	109
Wisconsin	-	-	6	47	58	29	22	2	1	-	167	332
Wyoming	-	2	6	9	7	3	3	1	-	-	8	39

- Quantity zero

1 Virginia does not report father's age.

**Fetal Death Documentation Table 8B**

**Fetal deaths by age of father: U.S. territories, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Territory	9-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-98	Unknown	Total
Total	-	16	44	60	57	41	15	6	5	1	134	379
American Samoa	-	-	-	1	1	-	1	-	-	-	3	6
Guam	-	-	2	5	4	3	1	1	2	-	25	43
Northern Marianas	-	-	-	1	2	-	-	-	-	1	1	5
Puerto Rico	-	16	42	53	49	36	13	4	2	-	91	306
Virgin Islands	-	-	-	-	1	2	-	1	1	-	14	19

- Quantity zero.

**Fetal Death Documentation Table 9A**

**Fetal deaths and percent distribution by live birth order: United States and each reporting area, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

State	0	1	2	3	4	5	6	7	8+	Unknown	Total
	Number										
TOTAL	8,883	5,408	3,915	2,174	1,095	497	269	155	187	1,297	23,880
Alabama	247	157	93	25	22	7	2	3	1	1	558
Alaska	34	13	13	2	6	1	3	1	1	3	77
Arizona	161	110	70	67	28	14	6	2	6	-	464
Arkansas	77	61	32	17	7	1	6	3	5	2	211
California	953	488	413	241	132	64	31	10	18	160	2,510
Colorado	138	81	59	38	18	12	3	4	2	38	393
Connecticut	68	33	19	8	3	1	1	1	-	15	149
Delaware	18	21	8	4	3	-	-	-	-	1	55
District of Columbia	42	12	13	10	4	2	2	-	-	1	86
Florida	608	347	256	137	70	40	16	12	10	76	1,572
Georgia	393	225	165	79	46	21	8	4	5	127	1,073
Hawaii	39	27	23	7	4	2	1	-	-	15	118
Idaho	41	27	18	10	8	5	-	1	2	-	112
Illinois	333	236	172	102	49	28	15	7	5	21	968
Indiana	177	140	79	53	23	13	11	1	3	9	509
Iowa	70	41	37	23	13	3	2	2	-	2	193
Kansas	101	58	47	22	9	10	4	1	2	-	254
Kentucky	138	89	55	32	11	4	4	4	5	3	345
Louisiana	164	85	73	42	12	8	2	1	1	2	390
Maine	14	3	5	3	-	-	-	2	-	14	41
Maryland	234	144	88	44	24	9	4	3	-	-	550
Massachusetts	162	89	40	21	6	6	1	1	1	4	331
Michigan	218	124	129	65	40	6	5	5	8	39	639
Minnesota	140	97	69	37	16	8	3	6	1	1	378
Mississippi	175	68	73	46	25	6	1	1	-	4	399
Missouri	164	120	73	37	21	12	7	6	7	16	463
Montana	20	11	13	5	2	-	-	1	-	-	52
Nebraska	42	34	32	15	12	6	5	1	2	3	152
Nevada	102	60	45	34	8	8	2	3	1	4	267
New Hampshire	39	17	9	1	1	-	-	-	-	4	71
New Jersey	293	179	116	45	28	12	9	4	3	10	699
New Mexico	20	20	17	11	6	4	3	-	1	1	83
New York	198	142	95	45	21	14	15	6	10	119	665
New York City	343	185	113	42	47	13	18	4	9	87	861
North Carolina	374	209	123	57	28	13	6	3	6	5	824
North Dakota	35	13	8	7	2	2	-	1	-	3	71
Ohio	348	193	164	101	41	18	8	6	14	20	913
Oklahoma	111	65	42	35	13	8	2	6	2	49	333
Oregon	82	48	36	15	14	1	3	1	4	5	209
Pennsylvania	318	204	128	70	30	15	6	3	6	76	856
Rhode Island	9	10	8	3	5	-	-	-	-	32	67
South Carolina	170	133	68	38	17	13	3	4	2	2	450
South Dakota	31	19	14	9	7	3	2	1	1	-	87
Tennessee	204	166	107	55	28	11	5	7	8	1	592
Texas	536	351	327	207	99	38	24	10	11	288	1,891
Utah	91	58	61	48	18	11	4	2	7	1	301
Vermont	13	6	9	2	-	-	-	-	-	-	30
Virginia	224	148	97	64	33	13	7	3	7	1	597
Washington	193	121	77	45	12	5	2	4	4	28	491
West Virginia	40	23	19	14	5	-	3	1	1	3	109
Wisconsin	117	90	60	31	16	6	4	3	4	1	332
Wyoming	21	7	5	3	2	-	-	-	1	-	39

	0	1	2	3	4	5	6	7	8+	Total
	Percent									
TOTAL	39.3	23.9	17.3	9.6	4.8	2.2	1.2	0.7	0.8	100.0
Alabama	44.3	28.2	16.7	4.5	3.9	*	*	*	*	100.0
Alaska	45.9	*	*	*	*	*	*	*	*	100.0
Arizona	34.7	23.7	15.1	14.4	6.0	*	*	*	*	100.0
Arkansas	36.8	29.2	15.3	*	*	*	*	*	*	100.0
California	40.6	20.8	17.6	10.3	5.6	2.7	1.3	*	*	100.0
Colorado	38.9	22.8	16.6	10.7	*	*	*	*	*	100.0
Connecticut	50.7	24.6	*	*	*	*	*	*	*	100.0
Delaware	*	38.9	*	*	*	*	*	*	*	100.0
District of Columbia	49.4	*	*	*	*	*	*	*	*	100.0
Florida	40.6	23.2	17.1	9.2	4.7	2.7	*	*	*	100.0
Georgia	41.5	23.8	17.4	8.4	4.9	2.2	*	*	*	100.0
Hawaii	37.9	26.2	22.3	*	*	*	*	*	*	100.0
Idaho	36.6	24.1	*	*	*	*	*	*	*	100.0
Illinois	35.2	24.9	18.2	10.8	5.2	3.0	*	*	*	100.0
Indiana	35.4	28.0	15.8	10.6	4.6	*	*	*	*	100.0
Iowa	36.6	21.5	19.4	12.0	*	*	*	*	*	100.0
Kansas	39.8	22.8	18.5	8.7	*	*	*	*	*	100.0
Kentucky	40.4	26.0	16.1	9.4	*	*	*	*	*	100.0
Louisiana	42.3	21.9	18.8	10.8	*	*	*	*	*	100.0
Maine	*	*	*	*	*	*	*	*	*	100.0
Maryland	42.5	26.2	16.0	8.0	4.4	*	*	*	*	100.0
Massachusetts	49.5	27.2	12.2	6.4	*	*	*	*	*	100.0
Michigan	36.3	20.7	21.5	10.8	6.7	*	*	*	*	100.0
Minnesota	37.1	25.7	18.3	9.8	*	*	*	*	*	100.0
Mississippi	44.3	17.2	18.5	11.6	6.3	*	*	*	*	100.0
Missouri	36.7	26.8	16.3	8.3	4.7	*	*	*	*	100.0
Montana	38.5	*	*	*	*	*	*	*	*	100.0
Nebraska	28.2	22.8	21.5	*	*	*	*	*	*	100.0
Nevada	38.8	22.8	17.1	12.9	*	*	*	*	*	100.0
New Hampshire	58.2	*	*	*	*	*	*	*	*	100.0
New Jersey	42.5	26.0	16.8	6.5	4.1	*	*	*	*	100.0
New Mexico	24.4	24.4	*	*	*	*	*	*	*	100.0
New York	36.3	26.0	17.4	8.2	3.8	*	*	*	*	100.0
New York City	44.3	23.9	14.6	5.4	6.1	*	*	*	*	100.0
North Carolina	45.7	25.5	15.0	7.0	3.4	*	*	*	*	100.0
North Dakota	51.5	*	*	*	*	*	*	*	*	100.0
Ohio	39.0	21.6	18.4	11.3	4.6	*	*	*	*	100.0
Oklahoma	39.1	22.9	14.8	12.3	*	*	*	*	*	100.0
Oregon	40.2	23.5	17.6	*	*	*	*	*	*	100.0
Pennsylvania	40.8	26.2	16.4	9.0	3.8	*	*	*	*	100.0
Rhode Island	*	*	*	*	*	*	*	*	*	100.0
South Carolina	37.9	29.7	15.2	8.5	*	*	*	*	*	100.0
South Dakota	35.6	*	*	*	*	*	*	*	*	100.0
Tennessee	34.5	28.1	18.1	9.3	4.7	*	*	*	*	100.0
Texas	33.4	21.9	20.4	12.9	6.2	2.4	1.5	*	*	100.0
Utah	30.3	19.3	20.3	16.0	*	*	*	*	*	100.0
Vermont	*	*	*	*	*	*	*	*	*	100.0
Virginia	37.6	24.8	16.3	10.7	5.5	*	*	*	*	100.0
Washington	41.7	26.1	16.6	9.7	*	*	*	*	*	100.0
West Virginia	37.7	21.7	*	*	*	*	*	*	*	100.0
Wisconsin	35.3	27.2	18.1	9.4	*	*	*	*	*	100.0
Wyoming	53.8	*	*	*	*	*	*	*	*	100.0

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

- Quantity zero

**Fetal Death Documentation Table 9B**

**Fetal deaths and percent distribution by live birth order: U.S. territories, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Territory	0	1	2	3	4	5	6	7	8+	Unknown	Total
TOTAL	193	105	40	16	7	3	1	1	3	10	379
American Samoa	1	4	1	-	-	-	-	-	-	-	6
Guam	12	8	8	6	1	2	1	1	3	1	43
Northern Marianas	3	-	-	-	2	-	-	-	-	-	5
Puerto Rico	172	92	27	7	3	-	-	-	-	5	306
Virgin Islands	5	1	4	3	1	1	-	-	-	4	19

- Quantity zero.

**Fetal Death Documentation Table 10A**

**Fetal deaths by sex of child and sex ratio: United States and each reporting area, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

State	Male	Female	Ratio M/F	Total
Total	12,445	11,435	1,088.3	23,880
Alabama	302	256	1,179.7	558
Alaska	42	35	1,200.0	77
Arizona	242	222	1,090.1	464
Arkansas	95	116	819.0	211
California	1,302	1,208	1,077.8	2,510
Colorado	189	204	926.5	393
Connecticut	91	58	1,569.0	149
Delaware	34	21	1,619.0	55
District of Columbia	46	40	1,150.0	86
Florida	833	739	1,127.2	1,572
Georgia	582	491	1,185.3	1,073
Hawaii	66	52	1,269.2	118
Idaho	53	59	898.3	112
Illinois	482	486	991.8	968
Indiana	263	246	1,069.1	509
Iowa	106	87	1,218.4	193
Kansas	138	116	1,189.7	254
Kentucky	180	165	1,090.9	345
Louisiana	204	186	1,096.8	390
Maine	13	28	464.3	41
Maryland	286	264	1,083.3	550
Massachusetts	177	154	1,149.4	331
Michigan	339	300	1,130.0	639
Minnesota	188	190	989.5	378
Mississippi	200	199	1,005.0	399
Missouri	240	223	1,076.2	463
Montana	23	29	793.1	52
Nebraska	84	68	1,235.3	152
Nevada	136	131	1,038.2	267
New Hampshire	33	38	868.4	71
New Jersey	410	289	1,418.7	699
New Mexico	47	36	1,305.6	83
New York	324	341	950.1	665
New York City	456	405	1,125.9	861
North Carolina	436	388	1,123.7	824
North Dakota	41	30	1,366.7	71
Ohio	493	420	1,173.8	913
Oklahoma	187	146	1,280.8	333
Oregon	119	90	1,322.2	209
Pennsylvania	440	416	1,057.7	856
Rhode Island	30	37	810.8	67
South Carolina	224	226	991.2	450
South Dakota	38	49	775.5	87
Tennessee	306	286	1,069.9	592
Texas	955	936	1,020.3	1,891
Utah	148	153	967.3	301
Vermont	13	17	764.7	30
Virginia	289	308	938.3	597
Washington	260	231	1,125.5	491
West Virginia	54	55	981.8	109
Wisconsin	185	147	1,258.5	332
Wyoming	21	18	1,166.7	39

– Quantity zero.

**Fetal Death Documentation Table 10B**

**Fetal deaths by sex of child and sex ratio: U.S. territories, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Territory	Male	Female	Ratio M/F	Total
Total	196	183	1,071.0	379
American Samoa	5	1	5,000.0	6
Guam	32	11	2,909.1	43
Northern Marianas	3	2	1,500.0	5
Puerto Rico	145	161	900.6	306
Virgin Islands	11	8	1,375.0	19

– Quantity zero.



**Fetal Death Documentation Table 11A**  
**Fetal deaths by plurality: United States and each reporting area, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

State	Single	Twin	Triplet	Quadruplet	Quintuplet+	Total
TOTAL	21,955	1,829	93	3	-	23,880
Alabama	514	43	1	-	-	558
Alaska	73	4	-	-	-	77
Arizona	437	27	-	-	-	464
Arkansas	190	20	1	-	-	211
California	2,327	181	2	-	-	2,510
Colorado	357	33	2	1	-	393
Connecticut	138	11	-	-	-	149
Delaware	52	3	-	-	-	55
District of Columbia	78	8	-	-	-	86
Florida	1,465	100	7	-	-	1,572
Georgia	981	84	8	-	-	1,073
Hawaii	106	10	2	-	-	118
Idaho	106	6	-	-	-	112
Illinois	876	86	6	-	-	968
Indiana	483	24	1	1	-	509
Iowa	173	18	2	-	-	193
Kansas	238	16	-	-	-	254
Kentucky	313	30	1	1	-	345
Louisiana	364	26	-	-	-	390
Maine	39	2	-	-	-	41
Maryland	506	35	9	-	-	550
Massachusetts	287	42	2	-	-	331
Michigan	578	60	1	-	-	639
Minnesota	351	27	-	-	-	378
Mississippi	350	46	3	-	-	399
Missouri	427	35	1	-	-	463
Montana	48	4	-	-	-	52
Nebraska	142	9	1	-	-	152
Nevada	241	24	2	-	-	267
New Hampshire	65	6	-	-	-	71
New Jersey	639	57	3	-	-	699
New Mexico	80	3	-	-	-	83
New York	589	69	7	-	-	665
New York City	778	82	1	-	-	861
North Carolina	768	51	5	-	-	824
North Dakota	71	-	-	-	-	71
Ohio	842	66	5	-	-	913
Oklahoma	308	23	2	-	-	333
Oregon	196	13	-	-	-	209
Pennsylvania	784	68	4	-	-	856
Rhode Island	60	7	-	-	-	67
South Carolina	414	34	2	-	-	450
South Dakota	80	7	-	-	-	87
Tennessee	553	39	-	-	-	592
Texas	1,739	146	6	-	-	1,891
Utah	284	16	1	-	-	301
Vermont	24	6	-	-	-	30
Virginia	549	47	1	-	-	597
Washington	458	33	-	-	-	491
West Virginia	98	9	2	-	-	109
Wisconsin	300	30	2	-	-	332
Wyoming	36	3	-	-	-	39

- Quantity zero.

**Fetal Death Documentation Table 11B**  
**Fetal deaths by plurality: U.S. territories, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Territory	Single	Twin	Triplet	Quadruplet	Quintuplet+	Total
Total	354	21	-	4	-	379
American Samoa	6	-	-	-	-	6
Guam	43	-	-	-	-	43
Northern Marianas	5	-	-	-	-	5
Puerto Rico	281	21	-	4	-	306
Virgin Islands	19	-	-	-	-	19

- Quantity zero.

Fetal Death Documentation Table 12A

Fetal deaths and percent distribution by period of gestation (in weeks): United States and each reporting area, 2016

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

State	20-27	28-31	32-33	34-36	37-38	39-40	41	42 or more	Unknown	Total
TOTAL	12,422	2,845	1,585	2,846	2,293	1,573	150	44	122	23,880
Alabama	302	68	37	53	59	32	4	-	3	558
Alaska	31	8	9	14	6	8	-	1	-	77
Arizona	227	52	43	55	47	31	4	1	4	464
Arkansas	81	31	10	35	37	16	-	1	-	211
California	1,275	269	174	304	245	202	21	9	11	2,510
Colorado	207	40	27	55	33	29	2	-	-	393
Connecticut	71	23	11	20	11	9	2	-	2	149
Delaware	26	7	4	10	4	2	-	-	2	55
District of Columbia	53	10	1	6	7	6	-	1	2	86
Florida	855	181	99	178	144	89	5	1	20	1,572
Georgia	593	127	75	110	97	58	3	4	6	1,073
Hawaii	70	11	1	15	12	6	2	-	1	118
Idaho	53	13	10	13	15	8	-	-	-	112
Illinois	544	113	51	100	91	62	3	1	3	968
Indiana	259	56	47	61	48	31	4	-	3	509
Iowa	92	22	16	23	27	12	1	-	-	193
Kansas	113	35	15	40	26	21	1	1	2	254
Kentucky	170	41	25	50	36	18	2	1	2	345
Louisiana	209	50	29	41	34	19	2	-	6	390
Maine	18	5	2	4	6	6	-	-	-	41
Maryland	327	60	36	48	50	28	1	-	-	550
Massachusetts	150	41	32	41	32	32	2	1	-	331
Michigan	326	77	47	70	59	42	6	3	9	639
Minnesota	187	43	25	40	40	38	5	-	-	378
Mississippi	235	57	27	30	35	12	1	1	1	399
Missouri	233	61	30	56	40	39	1	2	1	463
Montana	22	7	6	7	7	2	1	-	-	52
Nebraska	65	18	13	22	22	12	-	-	-	152
Nevada	142	28	17	31	25	21	1	-	2	267
New Hampshire	25	13	7	6	6	11	1	-	2	71
New Jersey	422	83	29	74	51	34	2	-	4	699
New Mexico	32	9	6	10	17	9	-	-	-	83
New York	329	72	46	94	75	38	7	1	3	665
New York City	503	92	44	87	78	50	6	1	-	861
North Carolina	409	126	51	93	86	56	2	1	-	824
North Dakota	36	15	2	9	4	5	-	-	-	71
Ohio	489	115	58	102	84	56	5	1	3	913
Oklahoma	151	50	22	49	35	22	1	1	2	333
Oregon	101	20	18	26	20	19	4	1	-	209
Pennsylvania	434	100	63	89	100	58	11	1	-	856
Rhode Island	31	6	3	14	5	7	-	-	1	67
South Carolina	239	68	19	57	40	24	1	-	2	450
South Dakota	43	12	5	9	9	9	-	-	-	87
Tennessee	291	76	36	79	57	43	5	2	3	592
Texas	940	218	144	277	175	113	13	3	8	1,891
Utah	149	35	21	48	30	17	1	-	-	301
Vermont	20	4	-	2	3	1	-	-	-	30
Virginia	317	59	40	74	54	40	5	2	6	597
Washington	275	58	22	52	31	39	9	-	5	491
West Virginia	48	13	11	19	14	2	-	1	1	109
Wisconsin	175	41	18	42	23	27	3	1	2	332
Wyoming	27	6	1	2	1	2	-	-	-	39

State	20-27	28-31	32-33	34-36	37-38	39-40	41	42 or more	Total
	Percent								
TOTAL	52.3	12.0	6.7	12.0	9.7	6.6	0.6	0.2	100.0
Alabama	54.4	12.3	6.7	9.5	10.6	5.8	*	*	100.0
Alaska	40.3	*	*	*	*	*	*	*	100.0
Arizona	49.3	11.3	9.3	12.0	10.2	6.7	*	*	100.0
Arkansas	38.4	14.7	*	16.6	17.5	*	*	*	100.0
California	51.0	10.8	7.0	12.2	9.8	8.1	0.8	*	100.0
Colorado	52.7	10.2	6.9	14.0	8.4	7.4	*	*	100.0
Connecticut	48.3	15.6	*	13.6	*	*	*	*	100.0
Delaware	49.1	*	*	*	*	*	*	*	100.0
District of Columbia	63.1	*	*	*	*	*	*	*	100.0
Florida	55.1	11.7	6.4	11.5	9.3	5.7	*	*	100.0
Georgia	55.6	11.9	7.0	10.3	9.1	5.4	*	*	100.0
Hawaii	59.8	*	*	*	*	*	*	*	100.0
Idaho	47.3	*	*	*	*	*	*	*	100.0
Illinois	56.4	11.7	5.3	10.4	9.4	6.4	*	*	100.0
Indiana	51.2	11.1	9.3	12.1	9.5	6.1	*	*	100.0
Iowa	47.7	11.4	*	11.9	14.0	*	*	*	100.0
Kansas	44.8	13.9	*	15.9	10.3	8.3	*	*	100.0
Kentucky	49.6	12.0	7.3	14.6	10.5	*	*	*	100.0
Louisiana	54.4	13.0	7.6	10.7	8.9	*	*	*	100.0
Maine	*	*	*	*	*	*	*	*	100.0
Maryland	59.5	10.9	6.5	8.7	9.1	5.1	*	*	100.0
Massachusetts	45.3	12.4	9.7	12.4	9.7	9.7	*	*	100.0
Michigan	51.7	12.2	7.5	11.1	9.4	6.7	*	*	100.0
Minnesota	49.5	11.4	6.6	10.6	10.6	10.1	*	*	100.0
Mississippi	59.0	14.3	6.8	7.5	8.8	*	*	*	100.0
Missouri	50.4	13.2	6.5	12.1	8.7	8.4	*	*	100.0
Montana	42.3	*	*	*	*	*	*	*	100.0
North Carolina	42.8	*	*	14.5	14.5	*	*	*	100.0
North Dakota	53.6	10.6	*	11.7	9.4	7.9	*	*	100.0
Nebraska	36.2	*	*	*	*	*	*	*	100.0
Nevada	60.7	11.9	4.2	10.6	7.3	4.9	*	*	100.0
New Hampshire	38.6	*	*	*	*	*	*	*	100.0
New Jersey	49.7	10.9	6.9	14.2	11.3	5.7	*	*	100.0
New Mexico	58.4	10.7	5.1	10.1	9.1	5.8	*	*	100.0
New York	49.6	15.3	6.2	11.3	10.4	6.8	*	*	100.0
New York City	50.7	*	*	*	*	*	*	*	100.0
Ohio	53.7	12.6	6.4	11.2	9.2	6.2	*	*	100.0
Oklahoma	45.6	15.1	6.6	14.8	10.6	6.6	*	*	100.0
Oregon	48.3	9.6	*	12.4	9.6	*	*	*	100.0
Pennsylvania	50.7	11.7	7.4	10.4	11.7	6.8	*	*	100.0
Rhode Island	47.0	*	*	*	*	*	*	*	100.0
South Carolina	53.3	15.2	*	12.7	8.9	5.4	*	*	100.0
South Dakota	49.4	*	*	*	*	*	*	*	100.0
Tennessee	49.4	12.9	6.1	13.4	9.7	7.3	*	*	100.0
Texas	49.9	11.6	7.6	14.7	9.3	6.0	*	*	100.0
Utah	49.5	11.6	7.0	15.9	10.0	*	*	*	100.0
Vermont	66.7	*	*	*	*	*	*	*	100.0
Virginia	53.6	10.0	6.8	12.5	9.1	6.8	*	*	100.0
Washington	56.6	11.9	4.5	10.7	6.4	8.0	*	*	100.0
West Virginia	44.4	*	*	*	*	*	*	*	100.0
Wisconsin	53.0	12.4	*	12.7	7.0	8.2	*	*	100.0
Wyoming	69.2	*	*	*	*	*	*	*	100.0

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

– Quantity zero.

**Fetal Death Documentation Table 12B**

**Fetal deaths by period of gestation (in weeks): U.S. territories, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Territory	20-27	28-31	32-33	34-36	37-38	39-40	41	42 or more	Unknown	Total
TOTAL	204	44	32	44	29	15	2	1	8	379
American Samoa	-	1	2	1	-	-	-	1	1	6
Guam	17	6	4	6	5	3	2	-	-	43
Northern Marianas	2	2	1	-	-	-	-	-	-	5
Puerto Rico	179	34	21	36	21	12	-	-	3	306
Virgin Islands	6	1	4	1	3	-	-	-	4	19

- Quantity zero.

Fetal Death Documentation Table 13A

Fetal deaths and percent distribution by birthweight (in grams): United States and each reporting area, 2016

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

State	<0500	0500-0999	1000-1499	1500-1999	2000-2499	2500-2999	Number					Unknown	Total
							3000-3499	3500-3999	4000-4499	4500-4999	5000-8165		
Total	8,105	4,263	2,066	1,846	1,712	1,674	1,412	741	264	107	56	1,634	23,880
Alabama	210	102	59	38	44	36	30	14	4	1	1	19	558
Alaska	18	10	5	5	7	6	8	8	2	-	-	8	77
Arizona	160	77	46	46	41	29	29	16	4	1	1	14	464
Arkansas	41	48	19	23	33	12	18	6	5	2	-	4	211
California	799	483	218	207	160	183	183	82	35	13	9	138	2,510
Colorado	113	56	28	26	36	22	28	5	3	-	2	74	393
Connecticut	46	34	17	5	13	18	5	3	3	-	-	5	149
Delaware	12	13	5	4	5	6	5	3	-	-	-	2	55
District of Columbia	37	20	6	5	7	4	3	-	1	1	2	-	86
Florida	573	276	129	115	129	102	72	43	17	7	2	107	1,572
Georgia	400	159	84	70	75	58	57	31	9	5	2	123	1,073
Hawaii	30	13	4	2	7	7	5	4	1	-	-	45	118
Idaho	31	24	10	9	9	10	9	3	3	-	-	4	112
Illinois	375	182	76	63	63	58	50	30	15	7	4	45	968
Indiana	184	73	60	39	36	29	29	10	8	4	3	34	509
Iowa	65	29	19	15	19	22	8	10	2	-	1	3	193
Kansas	90	42	22	22	15	24	20	10	2	3	1	3	254
Kentucky	124	61	27	35	28	23	22	10	3	1	2	9	345
Louisiana	138	67	44	30	26	23	21	10	4	-	2	25	390
Maine	10	5	2	4	2	2	9	1	-	-	1	5	41
Maryland	229	99	49	43	28	32	33	14	8	2	1	12	550
Massachusetts	94	59	34	30	22	28	26	18	3	-	1	16	331
Michigan	235	103	56	57	48	39	36	22	10	3	-	30	639
Minnesota	139	57	27	31	32	28	28	17	5	3	1	10	378
Mississippi	164	86	39	27	25	13	10	11	8	2	2	12	399
Missouri	144	87	45	44	28	33	33	13	6	3	-	27	463
Montana	11	9	5	6	6	7	2	2	1	-	1	2	52
Nebraska	48	20	11	12	13	11	13	9	3	3	-	9	152
Nevada	89	50	30	19	18	21	15	12	3	-	-	10	267
New Hampshire	18	14	7	5	6	6	6	5	1	1	-	2	71
New Jersey	306	144	49	47	42	37	41	12	4	2	3	12	699
New Mexico	20	15	5	7	9	11	8	5	-	-	1	2	83
New York	138	73	44	39	39	57	29	19	9	-	1	217	665
New York City	318	157	65	58	51	63	40	19	11	3	2	74	861
North Carolina	276	152	90	59	51	63	53	25	12	5	2	36	824
North Dakota	25	19	6	9	1	5	4	-	-	2	-	-	71
Ohio	354	169	72	67	69	69	46	24	9	4	4	26	913
Oklahoma	89	51	27	29	32	13	18	12	5	3	-	54	333
Oregon	58	51	22	14	13	24	16	7	2	1	-	1	209
Pennsylvania	273	141	63	62	52	53	68	36	6	4	2	96	856
Rhode Island	14	11	4	4	8	10	4	-	-	-	-	12	67
South Carolina	156	98	44	32	30	32	26	14	4	3	1	10	450
South Dakota	30	18	7	3	3	10	10	4	-	1	-	1	87
Tennessee	222	107	52	51	53	39	26	22	6	4	1	9	592
Texas	577	383	185	186	156	148	111	53	16	1	-	75	1,891
Utah	99	49	22	24	23	32	16	3	2	3	-	28	301
Vermont	11	6	5	-	4	1	2	-	-	-	-	1	30
Virginia	204	84	44	48	32	51	31	21	3	6	-	73	597
Washington	139	90	30	31	32	32	21	21	2	3	-	90	491
West Virginia	30	19	12	15	7	11	7	2	1	-	-	5	109
Wisconsin	122	58	30	23	24	20	21	19	3	-	-	12	332
Wyoming	17	10	5	1	-	1	1	1	-	-	-	3	39

State	<0500	0500-0999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500-4999	5000-8165	Total
Percent												
Total	36.4	19.2	9.3	8.3	7.7	7.5	6.3	3.3	1.2	0.5	0.3	100.0
Alabama	39.0	18.9	10.9	7.1	8.2	6.7	5.6	*	*	*	*	100.0
Alaska	*	*	*	*	*	*	*	*	*	*	*	100.0
Arizona	35.6	17.1	10.2	10.2	9.1	6.4	6.4	*	*	*	*	100.0
Arkansas	19.8	23.2	*	11.1	15.9	*	*	*	*	*	*	100.0
California	33.7	20.4	9.2	8.7	6.7	7.7	7.7	3.5	1.5	*	*	100.0
Colorado	35.4	17.6	8.8	8.2	11.3	6.9	8.8	*	*	*	*	100.0
Connecticut	31.9	23.6	*	*	*	*	*	*	*	*	*	100.0
Delaware	*	*	*	*	*	*	*	*	*	*	*	100.0
District of Columbia	43.0	23.3	*	*	*	*	*	*	*	*	*	100.0
Florida	39.1	18.8	8.8	7.8	8.8	7.0	4.9	2.9	*	*	*	100.0
Georgia	42.1	16.7	8.8	7.4	7.9	6.1	6.0	3.3	*	*	*	100.0
Hawaii	41.1	*	*	*	*	*	*	*	*	*	*	100.0
Idaho	28.7	22.2	*	*	*	*	*	*	*	*	*	100.0
Illinois	40.6	19.7	8.2	6.8	6.8	6.3	5.4	3.3	*	*	*	100.0
Indiana	38.7	15.4	12.6	8.2	7.6	6.1	6.1	*	*	*	*	100.0
Iowa	34.2	15.3	*	*	*	11.6	*	*	*	*	*	100.0
Kansas	35.9	16.7	8.8	8.8	*	9.6	8.0	*	*	*	*	100.0
Kentucky	36.9	18.2	8.0	10.4	8.3	6.8	6.5	*	*	*	*	100.0
Louisiana	37.8	18.4	12.1	8.2	7.1	6.3	5.8	*	*	*	*	100.0
Maine	*	*	*	*	*	*	*	*	*	*	*	100.0
Maryland	42.6	18.4	9.1	8.0	5.2	5.9	6.1	*	*	*	*	100.0
Massachusetts	29.8	18.7	10.8	9.5	7.0	8.9	8.3	*	*	*	*	100.0
Michigan	38.6	16.9	9.2	9.4	7.9	6.4	5.9	3.6	*	*	*	100.0
Minnesota	37.8	15.5	7.3	8.4	8.7	7.6	7.6	*	*	*	*	100.0
Mississippi	42.4	22.2	10.1	7.0	6.5	*	*	*	*	*	*	100.0
Missouri	33.0	20.0	10.3	10.1	6.4	7.6	7.6	*	*	*	*	100.0
Montana	*	*	*	*	*	*	*	*	*	*	*	100.0
Nebraska	33.6	14.0	*	*	*	*	*	*	*	*	*	100.0
Nevada	34.6	19.5	11.7	*	*	8.2	*	*	*	*	*	100.0
New Hampshire	*	*	*	*	*	*	*	*	*	*	*	100.0
New Jersey	44.5	21.0	7.1	6.8	6.1	5.4	6.0	*	*	*	*	100.0
New Mexico	24.7	*	*	*	*	*	*	*	*	*	*	100.0
New York	30.8	16.3	9.8	8.7	8.7	12.7	6.5	*	*	*	*	100.0
New York City	40.4	19.9	8.3	7.4	6.5	8.0	5.1	*	*	*	*	100.0
North Carolina	35.0	19.3	11.4	7.5	6.5	8.0	6.7	3.2	*	*	*	100.0
North Dakota	35.2	*	*	*	*	*	*	*	*	*	*	100.0
Ohio	39.9	19.1	8.1	7.6	7.8	7.8	5.2	2.7	*	*	*	100.0
Oklahoma	31.9	18.3	9.7	10.4	11.5	*	*	*	*	*	*	100.0
Oregon	27.9	24.5	10.6	*	*	11.5	*	*	*	*	*	100.0
Pennsylvania	35.9	18.6	8.3	8.2	6.8	7.0	8.9	4.7	*	*	*	100.0
Rhode Island	*	*	*	*	*	*	*	*	*	*	*	100.0
South Carolina	35.5	22.3	10.0	7.3	6.8	7.3	5.9	*	*	*	*	100.0
South Dakota	34.9	*	*	*	*	*	*	*	*	*	*	100.0
Tennessee	38.1	18.4	8.9	8.7	9.1	6.7	4.5	3.8	*	*	*	100.0
Texas	31.8	21.1	10.2	10.2	8.6	8.1	6.1	2.9	*	*	*	100.0
Utah	36.3	17.9	8.1	8.8	8.4	11.7	*	*	*	*	*	100.0
Vermont	*	*	*	*	*	*	*	*	*	*	*	100.0
Virginia	38.9	16.0	8.4	9.2	6.1	9.7	5.9	4.0	*	*	*	100.0
Washington	34.7	22.4	7.5	7.7	8.0	8.0	5.2	5.2	*	*	*	100.0
West Virginia	28.8	*	*	*	*	*	*	*	*	*	*	100.0
Wisconsin	38.1	18.1	9.4	7.2	7.5	6.3	6.6	*	*	*	*	100.0
Wyoming	*	*	*	*	*	*	*	*	*	*	*	100.0

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

- Quantity zero.

**Fetal Death Documentation Table 13B**

**Fetal deaths by birthweight (in grams): U.S. territories, 2016**

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Territory	<0500	0500-0999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500-4999	5000-8165	Unknown	Total
Total	126	93	32	32	24	25	20	9	2	2	1	13	379
American Samoa	-	2	-	1	1	1	1	-	-	-	-	-	6
Guam	9	8	5	7	3	2	7	1	-	-	-	1	43
Northern Marianas	1	3	1	-	-	-	-	-	-	-	-	-	5
Puerto Rico	111	75	25	19	20	21	12	7	2	2	-	12	306
Virgin Islands	5	5	1	5	-	1	-	1	-	-	1	-	19

- Quantity zero.



**Table A. 2016 Fetal Deaths: Control Count Totals for Revised Data Items**

Revised data item	Location in layout	Total number of fetal deaths to residents of areas reporting specified revised item <sup>1</sup>	
		U.S.	Territories
Delivery time	21-24	22,258	373
Delivery place (revised)	34	22,258	373
Mother's birth state recode	97	22,258	373
Mother's race (revised)	132-133, 134, 135-136	22,258	373
Mother's race (revised)/Hispanic origin	144	22,258	373
Mother's Education	145	22,191	373
Interval since last live birth	197-199, 200-201	22,191	373
Prenatal Care	202-203, 204, 213	22,191	373
WIC	229	20,821	373
Cigarettes Before Pregnancy (revised)	230-231	22,191	373
Cigarettes 1 <sup>st</sup> trimester	232-233	22,191	373
Cigarettes 2 <sup>nd</sup> trimester	234-235	22,191	373
Cigarettes 3 <sup>rd</sup> trimester	236-237	22,191	373
Cigarette Recode	238	22,191	373
Mother's Height	243-244	22,191	373
Body mass index (prepregnancy)	245-248, 249	22,191	373
Prepregnancy Weight	253-255	22,191	373
Prepregnancy Diabetes	257	21,700	373
Gestational Diabetes	258	21,700	373
Prepregnancy Hypertension (revised only)	259	21,700	373
Gestational Hypertension (revised only)	260	21,700	373
Hypertension Eclampsia (revised only)	261	21,700	373
Infertility Treatment	262	21,700	373
Fertility Enhancing Drugs	263	21,700	373
Asst. Reproductive Technology	264	21,700	373
Previous Cesareans	265	21,700	373
Number of previous Cesareans	266-267	21,700	373
Fetal Presentation	274	22,258	373
Route & Method of Delivery	275	22,258	373
Trial of Labor Attempted	276	22,258	373
Delivery Method Recode (Revised only)	277	21,700	373

Revised data item	Location in layout	Total number of fetal deaths to residents of areas reporting specified revised item <sup>1</sup>	
Ruptured Uterus	281	22,258	373
Admit to Intensive Care	282	22,258	373
Set Order Recode	306	22,258	373
Estimated time of fetal death	357	21,575	330
Was autopsy performed?	358	22,258	373
Was Histological Placental Exam Performed?	359	22,258	373
Was Autop/Hist results used in cause?	360	21,926	373

<sup>1</sup> Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.

Table B. 39 data items cut from the fetal mortality file beginning with the 2014 data year

• Mother married ever?
• Mother married? (At delivery, conception, or anytime in between)
• Total number of prenatal visits for this pregnancy
• Date of last prenatal care visit
• Mother's weight at delivery
• Number of other pregnancy outcomes
• Date of last other pregnancy outcome
• Mother/patient transferred for maternal medical or fetal indications for delivery?
Risk factors for this pregnancy
• Previous preterm birth
• Other previous poor pregnancy outcomes
All Infections present and/or treated during this pregnancy
• Gonorrhea
• Syphilis
• Chlamydia
• Listeria
• Group B Streptococcus
• Cytomegalovirus
• Parvovirus
• Toxoplasmosis
• None of the above
• Other (specify)
Method of delivery
• Hysterotomy/hysterectomy
Maternal morbidity
• Maternal transfusion
• Perineal laceration
• Unplanned hysterectomy
• Unplanned operating room procedure
All Congenital anomalies of the fetus
• Anencephaly
• Meningomyelocele/Spina bifida
• Cyanotic congenital heart disease
• Congenital diaphragmatic hernia
• Omphalocele
• Gastroschisis
• Limb reduction defect
• Cleft lip with or without cleft palate
• Cleft palate alone
• Down syndrome
• Down syndrome – karyotype confirmed/pending
• Suspected chromosomal disorder – karyotype confirmed/pending
• Hypospadias
• None of the anomalies listed above

Table C. Period of gestation and weight minimums at which fetal death reporting is required, by reporting areas: United States, 2016

Area	All periods of gestation	12 weeks	16 weeks	20 weeks	20 weeks or 350 grams	20 weeks or 400 grams	20 weeks or 500 grams	350 grams	500grams
Alabama				X					
Alaska				X					
Arizona					X				
Arkansas								<sup>2</sup> X	
California				X					
Colorado	X <sup>1</sup>								
Connecticut				X					
Delaware								<sup>2</sup> X	
District of Columbia							X		
Florida				X					
Georgia	X								
Hawaii	X								
Idaho					X				
Illinois				X					
Indiana				X					
Iowa				X					
Kansas				X					
Kentucky					X				
Louisiana					X				
Maine				X					
Maryland				X <sup>3</sup>					
Massachusetts					X				
Michigan						X			
Minnesota				X					
Mississippi					X				
Missouri					X				
Montana								X <sup>2</sup>	
Nebraska				X					
Nevada				X					
New Hampshire					X				
New Jersey				X					
New Mexico				X <sup>4</sup>					
New York	X								
New York excluding New York City	X								
New York City	X								
North Carolina				X					
North Dakota				X					
Ohio				X					
Oklahoma		X <sup>5</sup>							
Oregon				X					
Pennsylvania			X						
Rhode Island	X								
South Carolina					X				
South Dakota									X
Tennessee					X				
Texas				X					
Utah				X					
Vermont				X <sup>6</sup>					
Virginia	X								
Washington				X					
West Virginia				X					
Wisconsin					X				
Wyoming				X					
American Samoa	X								
Guam					X				
Northern Marianas								X <sup>2</sup>	
Puerto Rico					X				
Virgin Islands	X								

1 Although State law requires the reporting of fetal deaths of all periods of gestation, only data for fetal deaths of 20 weeks of gestation or more are provided to NCHS.

2 If weight is unknown, 20 completed weeks of gestation or more.

3 If gestational age is unknown, weight of 500 grams or more.

4 If gestational age is unknown, weight of 350 grams or more.

5 Although State law requires the reporting of fetal deaths at 12 weeks of gestation or more, only data for fetal deaths of 20 weeks of gestation or more are provided to NCHS.

6 If gestational age is unknown, weight of 400 grams or more, 15 ounces or more.

SOURCE: CDC/NCHS, National Vital Statistics System.

**Table D. Implementation of the 2003 U.S. Standard Report of Fetal Death: Each state and territory, New York City, and the District of Columbia, 2003-2016**

Year	Revised reporting area													
	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
Total	46 states and the District of Columbia <sup>1</sup>	46 states and the District of Columbia <sup>1</sup>	41 states and the District of Columbia <sup>1</sup>	35 states and the District of Columbia <sup>1</sup>	31 states and the District of Columbia <sup>1</sup>	28 states and the District of Columbia <sup>1</sup>	23 states <sup>1 2</sup>	22 states <sup>1 2</sup>	22 states <sup>1 2</sup>	16 states <sup>1 2</sup>	16 states <sup>1 2</sup>	11 states <sup>1 2</sup>	4 states <sup>1 2</sup>	1 states <sup>1 2</sup>
Alabama	X	X	X <sup>^</sup>											
Alaska	X	X	X*											
Arizona	X	X	X	X <sup>^</sup>										
Arkansas	X	X	X <sup>^</sup>											
California	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>			
Colorado	X	X <sup>^</sup>												
Connecticut														
Delaware	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>			
District of Columbia	X	X	X	X	X	X	X*							
Florida	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>			
Georgia	X	X	X	X	X	X	X	X	X	X*				
Hawaii	X	X	X <sup>^</sup>											
Idaho	X	X	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>	
Illinois	X	X	X <sup>^</sup>											
Indiana	X	X	X	X	X	X	X	X	X <sup>^</sup>					
Iowa	X	X	X	X	X <sup>^</sup>									
Kansas	X	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>		
Kentucky	X	X	X	X	X	X	X	X	X	X	X	X	X*	
Louisiana	X	X	X	X <sup>^</sup>										
Maine	X	X	X	X <sup>^</sup>										
Maryland	X	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>		
Massachusetts	X	X <sup>^</sup>												
Michigan	X	X	X	X	X	X	X	X	X	X	X	X	X	X*
Minnesota	X	X	X	X	X	X*								
Mississippi	X	X	X	X <sup>^</sup>										
Missouri	X	X	X	X	X	X <sup>^</sup>								
Montana	X	X	X	X	X	X	X	X	X <sup>^</sup>					
Nebraska	X	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>		
Nevada	X	X	X	X	X	X	X	X*						
New Hampshire	X	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>		
New Jersey	X*													
New Mexico	X	X	X	X	X	X <sup>^</sup>								
New York (excluding NYC)														
New York City	X	X	X	X	X	X <sup>^</sup>								
North Carolina	X	X	X <sup>^</sup>											
North Dakota	X	X	X	X	X	X	X	X	X <sup>^</sup>					
Ohio	X	X	X	X	X	X <sup>^</sup>								
Oklahoma	X	X	X	X	X	X	X	X	X	X	X	X	X*	
Oregon	X	X	X	X	X	X	X	X	X <sup>^</sup>					
Pennsylvania	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>			
Rhode Island	X	X <sup>^</sup>												
South Carolina	X	X	X	X	X	X	X	X	X <sup>^</sup>					
South Dakota	X	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>		
Tennessee	X	X	X	X	X <sup>^</sup>									
Texas	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>			
Utah	X	X	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>	
Vermont	X	X	X <sup>^</sup>											
Virginia	X	X	X*											
Washington	X	X	X	X	X	X	X	X	X	X	X	X	X	X <sup>^</sup>
West Virginia	X*													
Wisconsin	X	X	X	X	X	X <sup>^</sup>								
Wyoming	X	X	X	X	X	X	X*							
Puerto Rico	X <sup>^</sup>													
Virgin Islands	X	X <sup>^</sup>												
Guam	X	X	X	X	X	X*								
American Samoa														
Northern Marianas	X	X	X	X	X <sup>^</sup>									

<sup>^</sup> First year using 2003 U.S. Standard Report of Fetal death; revised as of January 1.  
<sup>\*</sup> Revised after January 1.

1 Excludes reporting areas that revised after January 1.  
 2 Excludes New York City

Table E. Percent of fetal death records on which specified items were not stated: United States and each state and territory, New York City, and the District of Columbia, 2016

[By place of residence]

[Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

Reporting areas	Items for which data are available for all reporting areas 1				
	All Fetal deaths	Place of delivery	Attendant at delivery	Father's age <sup>3</sup>	Mother's Hispanic origin <sup>4</sup>
Total of reporting areas <sup>2</sup>	23,880	0.1	1.6	25.6	3.2
Alabama	558	-	-	60.8	-
Alaska	77	-	-	20.8	1.3
Arizona	464	0.9	0.9	9.9	1.3
Arkansas	211	-	0.5	49.8	1.4
California	2,510	-	-	9.7	3.6
Colorado	393	-	-	9.4	-
Connecticut	149	0.7	2.0	17.4	10.7
Delaware	55	-	-	25.5	-
District of Columbia	86	-	-	68.6	-
Florida	1,572	-	0.1	13.0	3.8
Georgia	1,073	0.2	-	58.2	4.2
Hawaii	118	1.7	2.5	39.8	25.4
Idaho	112	-	1.8	19.6	1.8
Illinois	968	1.1	1.3	19.5	1.2
Indiana	509	-	41.5	9.6	-
Iowa	193	-	-	7.8	2.1
Kansas	254	-	-	13.4	0.8
Kentucky	345	-	0.9	43.5	0.3
Louisiana	390	-	0.3	28.7	-
Maine	41	-	-	19.5	9.8
Maryland	550	-	-	14.5	2.7
Massachusetts	331	-	1.8	28.1	13.3
Michigan	639	-	0.3	20.3	1.9
Minnesota	378	-	1.3	12.4	1.6
Mississippi	399	-	1.5	45.9	1.8
Missouri	463	0.2	-	17.9	1.7
Montana	52	-	-	13.5	1.9
Nebraska	152	-	-	6.6	-
Nevada	267	0.4	0.4	38.6	1.1
New Hampshire	71	-	-	25.4	4.2
New Jersey	699	-	-	23.5	1.6
New Mexico	83	-	-	38.6	-
New York (excluding NYC)	665	1.4	10.7	62.6	5.7
New York City	861	-	0.1	55.1	19.9
North Carolina	824	-	1.1	37.3	0.5
North Dakota	71	-	-	11.3	1.4
Ohio	913	-	0.2	12.9	1.2
Oklahoma	333	-	-	14.7	2.7
Oregon	209	-	1.0	13.4	-
Pennsylvania	856	-	0.2	14.6	0.1
Rhode Island	67	1.5	-	22.4	40.3
South Carolina	450	-	-	58.0	2.7
South Dakota	87	-	-	11.5	-
Tennessee	592	0.2	0.5	54.1	0.5
Texas	1,891	-	-	10.9	0.1
Utah	301	-	-	10.6	-
Vermont	30	-	6.7	13.3	3.3
Virginia	597	-	0.7	---	9.5
Washington	491	-	3.3	16.9	8.8
West Virginia	109	-	1.8	39.4	1.8
Wisconsin	332	-	0.3	50.3	1.8
Wyoming	39	-	28.2	20.5	-
Puerto Rico	306	0.3	3.6	29.7	1.3
Virgin Islands	19	5.3	5.3	73.7	21.1
Guam	43	-	-	58.1	-
American Samoa	6	-	-	50	---
Northern Marianas	5	-	-	20	-

See footnotes at end of table.

Table E. Percent of fetal death records on which specified items were not stated: United States and each state and territory, New York City, and the District of Columbia, 2016  
[By place of residence]

Reporting areas	Items for which data are available for all reporting areas <sup>1</sup>		
	Live-birth order	Obstetric estimate of gestation	Weight of fetus
Total of reporting areas <sup>2</sup>	5.4	0.5	6.8
Alabama	0.2	0.5	3.4
Alaska	3.9	-	10.4
Arizona	-	0.9	3.0
Arkansas	0.9	-	1.9
California	6.4	0.4	5.5
Colorado	9.7	-	18.8
Connecticut	10.1	1.3	3.4
Delaware	1.8	3.6	3.6
District of Columbia	1.2	2.3	-
Florida	4.8	1.3	6.8
Georgia	11.8	0.6	11.5
Hawaii	12.7	0.8	38.1
Idaho	-	-	3.6
Illinois	2.2	0.3	4.6
Indiana	1.8	0.6	6.7
Iowa	1.0	-	1.6
Kansas	-	0.8	1.2
Kentucky	0.9	0.6	2.6
Louisiana	0.5	1.5	6.4
Maine	34.1	-	12.2
Maryland	-	-	2.2
Massachusetts	1.2	-	4.8
Michigan	6.1	1.4	4.7
Minnesota	0.3	-	2.6
Mississippi	1.0	0.3	3.0
Missouri	3.5	0.2	5.8
Montana	-	-	3.8
Nebraska	2.0	-	5.9
Nevada	1.5	0.7	3.7
New Hampshire	5.6	2.8	2.8
New Jersey	1.4	0.6	1.7
New Mexico	1.2	-	2.4
New York (excluding NYC)	17.9	0.5	32.6
New York City	10.1	-	8.6
North Carolina	0.6	-	4.4
North Dakota	4.2	-	-
Ohio	2.2	0.3	2.8
Oklahoma	14.7	0.6	16.2
Oregon	2.4	-	0.5
Pennsylvania	8.9	-	11.2
Rhode Island	47.8	1.5	17.9
South Carolina	0.4	0.4	2.2
South Dakota	-	-	1.1
Tennessee	0.2	0.5	1.5
Texas	15.2	0.4	4.0
Utah	0.3	-	9.3
Vermont	-	-	3.3
Virginia	0.2	1.0	12.2
Washington	5.7	1.0	18.3
West Virginia	2.8	0.9	4.6
Wisconsin	0.3	0.6	3.6
Wyoming	-	-	7.7
Puerto Rico	1.6	1.0	3.9
Virgin Islands	21.1	21.1	-
Guam	2.3	-	2.3
American Samoa	-	16.7	-
Northern Marianas	-	-	-

See footnotes at end of table.

Table E. Percent of fetal death records on which specified items were not stated: United States and each state and territory, New York City, and the District of Columbia, 2016  
 [By place of residence]

Reporting areas	Risk Factors in this Pregnancy	
	All reporting areas <sup>1,5,6,7</sup>	Revised area <sup>5,6,8,9</sup>
Total of reporting areas <sup>2</sup>	5.0	3.6
Alabama	-	2.5
Alaska	13.0	3.9
Arizona	1.7	4.1
Arkansas	0.5	2.8
California	9.8	2.5
Colorado	-	2.5
Connecticut	8.1	---
Delaware	-	5.5
District of Columbia	-	3.5
Florida	2.7	4.0
Georgia	10.6	4.0
Hawaii	17.8	2.5
Idaho	2.7	2.7
Illinois	0.8	4.1
Indiana	10.8	4.3
Iowa	0.5	3.1
Kansas	-	4.3
Kentucky	4.3	6.1
Louisiana	-	3.6
Maine	2.4	12.2
Maryland	-	3.6
Massachusetts	0.9	4.8
Michigan	7.8	2.5
Minnesota	0.8	3.7
Mississippi	4.3	5.0
Missouri	0.2	3.5
Montana	-	5.8
Nebraska	2.6	7.9
Nevada	0.4	1.9
New Hampshire	4.2	1.4
New Jersey	2.3	---
New Mexico	-	1.2
New York (excluding NYC)	32.9	---
New York City	26.0	1.2
North Carolina	0.6	4.5
North Dakota	1.4	2.8
Ohio <sup>9</sup>	0.2	4.2
Oklahoma	0.9	3.3
Oregon	1.0	3.3
Pennsylvania	8.2	3.9
Rhode Island	---	---
South Carolina	1.8	4.0
South Dakota	-	4.6
Tennessee	-	6.6
Texas	0.1	5.0
Utah	-	1.0
Vermont	-	-
Virginia	-	2.0
Washington	---	---
West Virginia	3.7	---
Wisconsin	0.9	2.7
Wyoming	-	-
Puerto Rico	5.2	3.6
Virgin Islands	-	-
Guam	7.0	14.0
American Samoa	---	---
Northern Marianas	-	-

See footnotes at end of table.



Table E. Percent of fetal death records on which specified items were not stated: United States and each state and territory, New York City, and the District of Columbia, 2016  
[By place of residence]

Reporting areas	Method of Delivery			
	All reporting areas <sup>1,10</sup>		Revised area <sup>8,11</sup>	
	Method of Delivery: vaginal/cesarean	Breech and other presentation	Fetal presentation	Final route and method of delivery
Total of reporting areas <sup>2</sup>	4.1	11.1	11.2	3.9
Alabama	0.4	3.9	4.1	0.5
Alaska	2.6	3.9	3.9	2.6
Arizona	1.1	4.1	4.1	1.1
Arkansas	-	3.8	3.8	-
California	10.0	34.0	34.0	10.0
Colorado	6.6	5.9	5.9	6.6
Connecticut	1.3	8.1	---	---
Delaware	-	3.6	5.5	1.8
District of Columbia	1.2	-	-	1.2
Florida	3.3	9.9	9.9	3.4
Georgia	5.1	17.0	17.0	5.1
Hawaii	26.3	33.1	33.1	26.3
Idaho	-	0.9	0.9	-
Illinois	2.3	10.4	10.5	2.4
Indiana	1.0	21.0	21.2	1.2
Iowa	1.0	-	-	1.0
Kansas	-	0.4	0.4	-
Kentucky	1.4	4.6	4.9	1.7
Louisiana	-	0.3	0.3	-
Maine	12.2	17.1	17.1	12.2
Maryland	0.2	0.4	0.4	0.2
Massachusetts	0.6	0.6	0.9	0.9
Michigan	2.3	8.6	8.8	2.5
Minnesota	0.3	1.1	1.1	0.3
Mississippi	0.3	2.8	2.8	0.3
Missouri	0.9	5.0	5.0	0.9
Montana	-	-	-	-
Nebraska	0.7	0.7	0.7	0.7
Nevada	-	0.4	0.4	-
New Hampshire	-	-	-	-
New Jersey	1.9	1.7	---	---
New Mexico	-	1.2	1.2	-
New York (excluding NYC)	20.0	25.4	---	---
New York City	9.5	21.3	22.4	10.7
North Carolina	0.4	0.5	0.5	0.4
North Dakota	-	5.6	5.6	-
Ohio	2.1	4.2	4.6	2.5
Oklahoma	-	-	-	-
Oregon	0.5	1.0	1.4	1.0
Pennsylvania	10.4	13.4	15.2	12.1
Rhode Island	37.3	40.3	40.3	37.3
South Carolina	1.6	3.3	3.3	1.6
South Dakota	-	1.1	1.1	-
Tennessee	1.4	7.4	7.4	1.4
Texas	1.1	2.1	2.1	1.1
Utah	-	-	-	-
Vermont	6.7	6.7	10.0	10.0
Virginia	-	31.8	31.8	-
Washington	14.7	25.3	25.3	14.7
West Virginia	1.8	6.4	---	---
Wisconsin	0.9	7.2	7.2	0.9
Wyoming	-	-	-	-
Puerto Rico	2.6	3.6	3.6	2.6
Virgin Islands	5.3	15.8	15.8	5.3
Guam	4.7	60.5	60.5	4.7
American Samoa	---	---	---	---
Northern Marianas	20.0	60.0	60.0	20.0

See footnotes at end of table.

Table E. Percent of fetal death records on which specified items were not stated: United States and each state and territory, New York City, and the District of Columbia, 2016  
[By place of residence]

Reporting areas	Items exclusive to the revised reporting area, 46 states, the District of Columbia, and New York City <sup>8</sup>					
	Mother's birthplace	Time of birth	Education of mother <sup>4</sup>	Mother's height <sup>4</sup>	Mother's pre-pregnancy weight <sup>4</sup>	
Total of reporting areas <sup>2</sup>	6.5	1.3	11.8	6.3	11.6	
Alabama	0.5	0.2	2.9	1.8	7.2	
Alaska	5.2	1.3	16.9	6.5	14.3	
Arizona	1.3	-	3.9	1.1	5.4	
Arkansas	5.2	1.4	12.3	3.3	7.1	
California	4.4	1.8	9.0	7.1	12.5	
Colorado	13.5	-	24.7	23.2	29.5	
Connecticut	---	---	---	---	---	
Delaware	9.1	3.6	9.1	12.7	12.7	
District of Columbia	40.7	2.3	30.2	9.3	11.6	
Florida	6.9	3.2	8.5	7.5	12.8	
Georgia	0.5	-	31.1	9.4	16.2	
Hawaii	19.5	7.6	38.1	11.9	25.4	
Idaho	1.8	-	4.5	1.8	1.8	
Illinois	5.2	0.4	15.7	6.7	16.7	
Indiana	1.8	0.4	3.1	6.1	7.3	
Iowa	6.2	-	10.9	2.1	4.7	
Kansas	0.4	-	4.7	2.0	5.1	
Kentucky	0.6	0.9	3.5	2.3	3.5	
Louisiana	1.3	-	13.8	2.8	17.9	
Maine	12.2	-	12.2	14.6	22.0	
Maryland	9.3	-	9.5	2.2	5.3	
Massachusetts	15.7	1.5	20.2	3.9	7.6	
Michigan	10.3	0.6	13.1	4.7	11.4	
Minnesota	2.6	0.3	10.1	3.4	6.1	
Mississippi	12.8	-	17.3	4.8	5.0	
Missouri	3.7	0.4	5.6	1.3	3.7	
Montana	3.8	-	1.9	3.8	11.5	
Nebraska	1.3	1.3	28.3	10.5	13.8	
Nevada	3.4	1.5	5.6	1.1	6.7	
New Hampshire	9.9	11.3	11.3	8.5	11.3	
New Jersey	---	---	---	---	---	
New Mexico	10.8	-	3.6	10.8	16.9	
New York (excluding NYC)	---	---	---	---	---	
New York City	7.2	1.4	42.2	5.8	13.0	
North Carolina	0.8	-	1.6	1.9	7.2	
North Dakota	22.5	-	4.2	-	5.6	
Ohio	0.7	1.6	3.7	4.8	7.7	
Oklahoma	3.3	0.3	5.7	6.6	9.6	
Oregon	1.4	1.0	5.3	3.3	10.0	
Pennsylvania	4.7	4.3	12.6	14.5	20.1	
Rhode Island	3.0	3.0	---	---	---	
South Carolina	6.7	0.7	6.2	4.0	8.4	
South Dakota	-	-	5.7	-	2.3	
Tennessee	12.8	0.3	9.1	2.4	10.3	
Texas	17.3	0.6	2.0	6.2	9.5	
Utah	2.3	0.7	8.0	2.7	5.0	
Vermont	10.0	10.0	20.0	10.0	20.0	
Virginia	0.7	6.4	27.6	14.7	27.0	
Washington	23.6	2.4	14.5	13.0	22.2	
West Virginia	---	---	---	---	---	
Wisconsin	1.5	0.3	13.3	1.8	4.8	
Wyoming	5.1	-	7.7	5.1	7.7	
Puerto Rico	1.0	0.3	1.3	1.3	26.1	
Virgin Islands	-	31.6	15.8	42.1	47.4	
Guam	4.7	2.3	2.3	11.6	20.9	
American Samoa	---	---	---	---	---	
Northern Marianas	-	20.0	60.0	-	20.0	

See footnotes at end of table.

Table E. Percent of fetal death records on which specified items were not stated: United States and each state and territory, New York City, and the District of Columbia, 2016  
[By place of residence]

Reporting areas	Items exclusive to the revised reporting area, 46 states, the District of Columbia, and New York City <sup>8</sup>				
	Did mother get WIC food for herself during this pregnancy <sup>4</sup>	Cigarette smoking before and during pregnancy <sup>4</sup>	Birth interval <sup>4</sup>	Month prenatal care began <sup>4</sup>	Maternal morbidity
Total of reporting areas <sup>2</sup>	27.2	10.2	13.7	12.9	0.5
Alabama	42.8	12.5	2.9	4.1	0.9
Alaska	24.7	9.1	5.2	10.4	-
Arizona	24.8	9.5	5.2	5.6	0.9
Arkansas	36.0	21.3	13.7	17.5	0.5
California	34.3	3.8	11.0	10.7	0.2
Colorado	10.4	6.9	22.9	37.2	0.3
Connecticut	---	---	---	---	---
Delaware	21.8	9.1	14.5	10.9	-
District of Columbia	8.1	3.5	24.4	36.0	-
Florida	35.0	8.5	11.6	11.9	0.8
Georgia	23.2	5.0	20.9	23.7	0.3
Hawaii	11.0	2.5	17.8	20.3	0.8
Idaho	26.8	10.7	6.3	0.9	0.9
Illinois	20.2	10.0	13.1	15.4	0.3
Indiana	---	16.1	8.3	10.0	0.6
Iowa	14.5	14.0	9.8	1.6	1.0
Kansas	21.7	13.0	2.0	3.9	-
Kentucky	30.4	23.2	4.9	5.8	0.3
Louisiana	32.1	7.2	12.3	13.1	0.3
Maine	17.1	24.4	26.8	7.3	2.4
Maryland	23.3	11.5	6.2	4.9	0.4
Massachusetts	18.1	7.3	8.2	6.9	0.9
Michigan	28.8	14.7	12.2	12.4	0.6
Minnesota	23.5	11.6	5.0	3.2	-
Mississippi	38.3	10.5	8.0	8.8	-
Missouri	30.7	19.7	9.7	12.5	0.2
Montana	28.8	23.1	5.8	5.8	1.9
Nebraska	12.5	12.5	13.8	7.9	-
Nevada	28.1	7.1	10.5	7.5	1.1
New Hampshire	4.2	14.1	4.2	7.0	1.4
New Jersey	---	---	---	---	---
New Mexico	31.3	8.4	18.1	15.7	1.2
New York (excluding NYC)	---	---	---	---	---
New York City	---	1.5	33.4	14.5	0.2
North Carolina	37.9	13.8	2.8	3.3	1.0
North Dakota	23.9	15.5	4.2	4.2	2.8
Ohio	24.3	21.2	12.9	9.1	0.5
Oklahoma	38.1	17.4	18.9	10.8	0.3
Oregon	34.0	15.3	6.7	2.9	0.5
Pennsylvania	16.1	14.1	13.2	18.9	0.6
Rhode Island	---	---	---	---	-
South Carolina	31.3	12.0	14.2	5.6	0.7
South Dakota	40.2	11.5	5.7	2.3	-
Tennessee	30.2	9.3	19.8	24.3	0.3
Texas	25.9	5.9	18.7	14.6	0.6
Utah	14.3	4.0	6.0	3.0	0.3
Vermont	13.3	16.7	13.3	13.3	-
Virginia	11.1	9.0	12.1	35.5	0.3
Washington	22.4	11.6	56.0	26.7	0.2
West Virginia	---	---	---	---	---
Wisconsin	21.4	21.4	5.7	6.6	0.6
Wyoming	20.5	20.5	7.7	15.4	-
Puerto Rico	72.9	0.7	5.2	2.9	0.3
Virgin Islands	21.1	-	31.6	63.2	-
Guam	25.6	2.3	4.7	20.9	-
American Samoa	---	---	---	---	---
Northern Marianas	40.0	-	-	-	-

0.0 Quantity more than zero but less than 0.05.

---Data not available.

- Quantity zero.

<sup>1</sup> Items common to both the 2003 and 1989 Standard Report of Fetal Death.

<sup>2</sup> Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas.

<sup>3</sup> Father's age is not reported by Virginia.

<sup>4</sup> Mother's Hispanic origin is not reported by American Samoa.

<sup>5</sup> For 2016, Rhode Island did not report a number of items. These include: risk factors, mother's education, mother's height, mother's pre-pregnancy weight, WIC, cigarette smoking before and during pregnancy, birth interval, and month prenatal care began.

<sup>6</sup> For 2016, Washington did not report risk factors.

<sup>7</sup> Items included: diabetes (combined prepregnancy and gestational), prepregnancy hypertension, gestational hypertension, and eclampsia. American Samoa does not report risk factors.

<sup>8</sup> Items exclusive to the 2003 Standard Report of Fetal Death.

<sup>9</sup> Items included: Prepregnancy and gestational diabetes, pregnancy resulted from infertility treatment, mother had a previous cesarean.

<sup>10</sup> Breech/malpresentation included in the "Complications of Labor and/or Delivery" item for the 1989 Standard Certificate of Live Birth. American Samoa does not report Breech/malpresentation.

<sup>11</sup> Items included: Fetal presentation at birth: cephalic; Final route and method of delivery: Vaginal/spontaneous, vaginal/forceps, vaginal/vacuum, and if cesarean, was a trial of labor attempted.