

User Guide to the 2006 Fetal Death Public Use File



2006 Fetal Death Data Set

User's Guide

ACKNOWLEDGMENTS

Preparation of this user's guide was coordinated by Sharon Kirmeyer, and Marian MacDorman of the Division of Vital Statistics (DVS) under the general direction of Joyce A. Martin, Lead Statistician, Reproductive Statistics Branch (RSB), DVS, and Stephanie J. Ventura, Chief of the Reproductive Statistics Branch (DVS). Additional review was provided by Elizabeth Wilson and Donna Hoyert of DVS. The vital statistics computer file on which it is based was prepared by DVS staff.

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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

2006 Fetal Death Data Set

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Births: Final Data for 2006

http://www.cdc.gov/nchs/data/nvsr/nvsr57/nvsr57_07.pdf

Fetal and Perinatal Mortality, United States, 2006

[In press – link will be added at the end of August 2012].

Infant Mortality Statistics from the 2006 Period Linked Birth/Infant Death Data Set

http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58_17.pdf

Introduction:

User Guide to the 2006 Fetal Death Public Use File

U.S. fetal death data

United States fetal death data available in this file 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. 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 gestation of 20 weeks or more. For more detailed information on the 2006 fetal death file see the *Detailed Technical Notes –United States, 2006 – Fetal Deaths* in this User's Guide.

Availability of geographic detail

Beginning with the 2005 data year, the U.S. micro-data fetal death file no longer includes geographic detail (e.g., mother's state of residence). Tabulations of fetal death data by residence of mother for states and for counties with populations of 250,000 or more are available for previous years using the VitalStats online data access tool

described below. 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 .

The 2006 territories file includes data on fetal deaths occurring in Puerto Rico, and Guam. It includes limited geographical data such as information identifying individual possessions and counties (or their equivalent) with populations of 250,000 or more by place of occurrence and residence.

VitalStats

Fetal death public use data, including geographic level detail for states and counties are available at VitalStats. VitalStats is an online data access tool which provides access to a collection of interactive pre-built tables, and the ability to build tables from many public use fetal death variables. Interactive charting and mapping tools are a key part of the system, and provide powerful options for visualizing and manipulating tabulated data. Tabulated data can be exported to Excel for further analysis. VitalStats for fetal deaths, 2003 – 2006, is available at:

<http://www.cdc.gov/nchs/VitalStats.htm>.

Downloadable files

Fetal death public use data files from 1982 to 2006, including User Guides, U.S. Fetal Death Data, and U.S. Possessions Fetal Death Data are available for downloading directly from the NCHS website at:

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. Report of Fetal Death in 2003 (revised). The 2003 revision is described in detail elsewhere. (See the 2003 Revision website at: http://www.cdc.gov/nchs/vital_certs_rev.htm). Sixteen states: California, Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah, and Washington implemented the revised fetal death report as of January 1, 2006. The 16 revised states represent 23 percent of all U.S. fetal deaths of 20 weeks and over. Where comparable, revised data are combined with data from the remaining 34 states, the District of Columbia, and New York City. (Revised data are denoted by “A;” unrevised data are denoted by “S” in the “Rev” column of the file layout.) Where data for the 1989 and 2003 certificate revisions are not comparable, for selected items (e.g., educational attainment of the mother), unrevised and revised data are shown in separate fields in the data file. Selected items new to the 2003 Revision are also in the public use file. Also see discussion of reporting flags. For further information please contact us at births@cdc.gov or (1-301) 458-4111.

Incomplete national reporting: Selecting reporting areas for the 2006 Fetal Death File

The use of reporting flags

As a result of the delayed, phased transition to the 2003 Standard Report of Fetal Deaths, the 2006 fetal death file includes data for reporting areas that use the 2003 revision of the U.S. Standard Report of Fetal Death (revised) and data for reporting areas that use the 1989 Report of Fetal Death (unrevised). Although many data items are

comparable across revisions and are available for the entire United States, many items have more limited reporting areas. For example, information on pre-pregnancy and gestational diabetes, revised data items, is available for 16 states for 2006.

Reporting flags were developed to help the user more readily identify fetal deaths for all reporting areas for items with less than national reporting. The national reporting area is defined as the 50 states, the District of Columbia, and New York City (which is independent of New York State for the purpose of fetal death registration). Reporting flags are available for most items on the file. Positions for reporting flags are noted along with each data item in the file layout.

Translating “blanks”

In the 2006 fetal death file, for data items which are not common or comparable across certificate revisions, 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 prenatal care item: “month prenatal care began”. Prenatal care data based on the revised certificate are not considered comparable with data based on the unrevised certificate, and are presented separately. (See also Births: Final Data for 2006 (1).) Accordingly, use of the reporting flag for this item will

produce 2006 data for the month prenatal care began for the 16 revised states which had implemented the revised Report as of January 1, 2006.

Sample SAS program

```
01 DATA work;
02     INFILE 'c:fet06us.dat' LRECL=801;
03     INPUT
04         tabflg 9
05         restatus 138
06         precare 245-246
07         f_precare 668;
08
09     /*Include if 20 weeks gestation or more*/
10     IF tabflg EQ 2;
11     /*Exclude foreign residents*/
12     IF restatus NE 4;
13     /*Select reporting area*/
14     IF f_precare=1;
15     /*Convert blanks to unknown*/
16     IF precare=. THEN precare=99;
17
18 PROC FREQ;
19     TABLE precare;
20 RUN;
```

In this example, “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 (‘ ’).

References

1. Martin JA, Hamilton, B., et al. Births: Final data for 2006; vol 57 no 7. Hyattsville, MD: National Center for Health Statistics. 2009.

Control Count of Records

File Characteristics: Fetal Public Use File 2006

All files:

Record format:	Blocked, Fixed, Format
Code scheme:	Numeric/Alphabetic/Blank
Record length:	801

Record counts

U.S. set record count:

Counts of 20 weeks or more:

Record count:	26,002
By occurrence:	26,002
By residence:	25,972
To foreign residence:	30

Counts less than 20 weeks:

Record count:	26,712
By occurrence:	26,712
By residence:	26,698
To foreign residence:	14

U.S. possessions set record count: 584 (20 weeks or more)

Counts of 20 weeks or more:	Guam	Puerto Rico
Record counts:	32	492
By occurrence:	32	492
By residence:	31	489
To foreign residence:	1	3

2006 LIST OF DATA ELEMENTS AND LOCATIONS – FETAL DEATH FILE

<u>Data Items</u>	<u>Locations</u> (*)
1. General	
a) Tabulation flag (gestational age)	9
b) Data year	15-18
c) Resident status	138
2. Prenatal Care	
a) Month began	245-246 -R 256-257 -U
b) Number of visits	270-271
3. Fetus	
a) Sex	436
b) Plurality	423
c) Weight at delivery	463-466
d) Gestational age	451-452
e) Month/year of delivery	15-20
f) Day of week of delivery	29
4. Mother	
a) Age	89-90
b) Race	143
c) Marital status	153
d) Education	155 -R 156-157 -U
e) Hispanic Origin	148,149
5. Pregnancy History	
a) Live birth order	212
b) Total birth order	217
6. Father	
a) Age	184-185
7. Other Items	
a) Place of delivery	42
b) Attendant at delivery	410
c) Residence reporting flags	569-801

LIST OF DATA ELEMENTS AND LOCATIONS

<u>Data Items</u>	<u>Locations</u>
8. Medical and Health Data	
a) Method of delivery	392-403
b) Medical risk factors	313-319 -R
	331,335,336,337-U,R
c) Other risk factors	
Tobacco	284-289, 294 -R
	290, 291-293 -U
Weight gain during pregnancy	276-278
d) Obstetric procedures	357,359 -U,R
e) Complications of labor and/or delivery	384 -U,R
f) Congenital anomalies	492-503-R
	504,505,513,518,523
	-U,R

(*) specific revisions:

U = Unrevised; 1989 Report of Fetal Death

R = Revised; 2003 Report of Fetal Death

**2006 Fetal Death
Public Use File
Documentation (5/30/12)**

Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
1-6	6	BLANK					
7	1	VERSION	Version		A,S	A S	State used the 2003 version of the US Standard Birth Certificate (Revised) State used the 1989 version of the US Standard Birth Certificate (Unrevised)
8	1	BLANK					
9	1	TABFLG	Tabulation Flag		A,S	1 2	Under 20 Weeks (exclude) 20 Weeks or more (include)
10-14	5	BLANK					
15-18	4	DOD_YY	Delivery Year		A,S	2006	Year of birth
19-20	2	DOD_MM	Delivery Month		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
21-28	8	BLANK					
29	1	DOD_WK	Weekday		A,S	1 2 3 4 5 6 7	Sunday Monday Tuesday Wednesday Thursday Friday Saturday

* For the Version column (Ver) 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
30-31	2	OSTATE	Territory of occurrence <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 GU MP PR VI	American Samoa Guam Northern Marianas Puerto Rico Virgin Islands
32-36	5	BLANK					
37-39	3	OCNTYFIPS	Occurrence County <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file)</i>		A,S		
			<u>Puerto Rico</u>			021 025 031 097 113 127 999	Bayamo'n Caguas Carolina Mayaguez Ponce San Juan County of less than 100,000
			<u>Other Outlying Areas of the United States</u>			000 999	No county level geography County of less than 100,000
40	1	OCNTYPOP	Occurrence Territory County Population <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 4 5 6 9	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County of 100,000 to 250,000 County of 50,000 to 100,000 County of 25,000 to 50,000 County of 10,000 to 25,000 County less than 10,000

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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
41	1	BFACIL	Delivery Place (Revised)	676	A	1 2 3 4 5 6 7 9 Blank	Hospital Freestanding Birth Center Home (intended) Home (not intended) Home (unknown if intended) Clinic / Doctor's Office Other Unknown Not on certificate
42	1	UBFACIL	Delivery Place		A,S	1 2 3 4 5 9	Hospital Freestanding Birthing Center Clinic / Doctor's Office Residence Other Unknown
43-58	16	BLANK					
59	1	BFACIL3	Delivery Place Recode		A,S	1 2 3	In Hospital Not in Hospital Unknown/not stated
60-86	27	BLANK					
87	1	MAGE_IMPFLG	Mother's Age Imputed		A,S	Blank 1	Age not imputed Age imputed
88	1	MAGE_REPFLG	Reported Age of Mother Flag		A,S	Blank 1	Reported age not used Reported age used
89-90	2	MAGER	Mother's Single Year of Age		A,S	12 13 14 15 16 17	12 years and under 13 years 14 years 15 years 16 years 17 years

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						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 **

** Includes births to women aged 50 to 64 years.

91-92	2	MAGER14	Mother's Age Recode 14		A,S	01	Under 15 Years
						03	15 years
						04	16 years
						05	17 years

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						06	18 years
						07	19 years
						08	20-24 years
						09	25-29 years
						10	30-34 years
						11	35-39 years
						12	40-44 years
						13	45-49 years
						14	50-54 years **
			** Includes births to women aged 50 to 64 years.				
93	1	MAGER9	Mother's Age Recode 9		A,S	1	Under 15 years
						2	15-19 years
						3	20-24 years
						4	25-29 years
						5	30-34 years
						6	35-39 years
						7	40-44 years
						8	45-49 years
						9	50-54 years **
			** Includes births to women aged 50 to 64 years.				
94-95	2	MBCNTRY	Mother's Birth Country <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file)</i>		A,s	AA-ZZ	See Geographic Documentation
96-108	13	BLANK					
109-110	2	MRSTATEPSTL	Mother's Territory of Residence <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

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
111-113	3	BLANK					
114-116	3	MRCNTYFIPS	Mother's FIPS County of Residence <i>(This item is available in the territory file only, geographic codes are not available in the U.S. file)</i>		A,s	001-999 000	See Geographic Tables Foreign
117-131	15	BLANK					
132	1	RCNTY_POP	Population of Residence County <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 4 5 6 9 Z	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County of 100,000 to 250,000 County of 50,000 to 100,000 County of 25,000 to 50,000 County of 10,000 to 25,000 County less than 10,000 Foreign resident
133-136	4	BLANK					
137	1	RECTYPE	Record Type <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.

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
138	1	RESTATUS	Residence Status <u>United States</u>		A,S	1 2 3 4	RESIDENT: State and county of occurrence and residence are the same. INTRASTATE NONRESIDENT: State of occurrence and residence are the same but county is different. INTERSTATE NONRESIDENT: State of occurrence and residence are different but both are one of the 50 US states or District of Columbia. FOREIGN RESIDENT: The state of residence is not one of the 50 US states or District of Columbia.
			<u>Territories</u>			1 2 3 4	RESIDENT: State and county of occurrence and residence are the same. (Unique to Guam, all US residents are considered residents of Guam and thus are assigned 1.) INTRATERRITORY NONRESIDENT: Territory of occurrence and residence are the same but county is different. INTERTERRITORY RESIDENT: Territory of occurrence and residence are different but both are US Territories. FOREIGN RESIDENT: The residence is not a US Territory.
139-140	2	MBRACE	Mother's Bridged Race Includes only states reporting multiple race. Codes 01-14 used for individuals reporting only one race. Codes 21-24 used for individuals reporting more than one race that have been bridged to a single race. Code 24 also used for individuals reporting more than one Asian/Pacific Islander group; see "Technical Appendix." ** Also includes unrevised states that report multiple race.		A**	01 02 03 04 05 06 07 08 09 10 11 12 13 14 21 22 23 24	White – single race Black – single race American Indian / Alaskan Native – single race Asian Indian – single race Chinese – single race Filipino – single race Japanese – single race Korean – single race Vietnamese – single race Other Asian – single race Hawaiian – single race Guamanian Samoan Other Pacific Islander Bridged White Bridged Black Bridged American Indian or Alaskan Native Bridged Asian or Pacific Islander

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
141-142	2	BLANK					
143	1	MRACEREC	Mother's Race Recode		A,S		
			<u>United States and non-Puerto Rican Territories</u>			1 2 3 4	White Black American Indian or Alaskan Native Asian or Pacific Islander
			<u>Puerto Rico</u>			1 2 0	White Black Other (not classified as White or Black)
144	1	MRACEIMP	Mother's Race Imputed		A,S	Blank 1 2	Mother's race not imputed Unknown race imputed All other races, formerly coded 09, imputed.
145-147	3	BLANK					
148	1	UMHISP	Mother's Hispanic Origin	569	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
149	1	MRACEHISP	Mother's Race/Hispanic Origin	569	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
150-152	3	BLANK					

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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
153	1	MAR	Mother's Marital Status	780	A,S		
			<u>United States & all non-Puerto Rican Territories</u>			1	Yes
						2	No
						9	Unknown or not Stated
			<u>Puerto Rico</u>			1	Yes
						2	Unmarried parents living together
						3	Unmarried parents not living together
						9	Unknown or not stated
154	1	MAR_IMP	Mother's Marital Status Imputed		A,S	Blank	Marital Status not imputed
						1	Marital Status imputed
155	1	MEDUC	Mother's Educ –Revised	571	A		
						1	8 th grade or less
						2	9 th through 12 th grade with no diploma
						3	High school graduate or GED completed
						4	Some college credit, but not a degree.
						5	Associate degree (AA,AS)
						6	Bachelor's degree (BA, AB, BS)
						7	Master's degree (MA, MS, MEng, MEd, MSW, MBA)
						8	Doctorate (PhD, EdD) or Professional Degree (MD, DDS, DVM, LLB, JD)
						9	Unknown
156-157	2	UMEDUC	Mother's Educ –Unrevised	647	S		
						00	No formal education
						01-08	Years of elementary school
						09	1 year of high school
						10	2 years of high school
						11	3 years of high school
						12	4 years of high school
						13	1 year of college
						14	2 years of college
						15	3 years of college
						16	4 years of college
						17	5 or more years of college
						99	Not stated
158	1	MEDUC_REC	Mother's Education Recode	647	S		
						1	0 – 8 years
						2	9 – 11 years
						3	12 years

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						4	13 – 15 years
						5	16 years and over
						6	Not stated
159-174	16	BLANK					
175	1	FAGERPT_FLG	Father's Reported Age Used		A,S	Blank 1	Father's reported age not used Father's reported age used
176-181	6	BLANK					
182-183	2	FAGECOMB	Father's Combined Age (Revised)		A	09-98 99	Father's combined age in years Unknown or not stated
184-185	2	UFAGECOMB	Father's Combined Age (Unrevised)		A,S	10-98 99	Father's combined age in years Unknown or not stated
186-187	2	FAGEREC11	Father's Age Recode 11		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
188-203	16	BLANK					
204-211	8	BLANK					

* For the Version column (Ver) 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
212	1	LBO_REC	Live Birth Order Recode		A,S	0-7 8 9	Number of live birth order. 8 or more live births Unknown or not stated
213-214	4	BLANK					
217	1	TBO_REC	Total Birth Order Recode		A,S	1-7 8 9	Number of total birth order. 8 or more total births Unknown or not stated
218-244	27	BLANK					
245-246	2	PRECARE	Month Prenatal Care Began (Revised) 668		A	00 01-10 99	No prenatal care Month prenatal care began Unknown or not stated
247	1	PRECARE_REC	Month Prenatal Care Began Recode (Revised) 668		A	1 2 3 4 5	1 st to 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated
248-255	8	BLANK					
256-257	2	MPCB	Month Prenatal Care Began (Unrevised) 647		S	00 01-10 99	No prenatal care Month prenatal care began Unknown or not stated
258	1	MPCB_REC6	Month Prenatal Care Began Recode 6 (Unrevised) 647		S	1 2 3 4 5 6	1 st to 2 nd month 3 rd month 4 th to 6 th month 7 th to final month No prenatal care Unknown or not stated

* For the Version column (Ver) 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
259	1	MPCB_REC5	Month Prenatal Care Began Recode 5 (Unrevised)	647	S	1 2 3 4 5	1 st trimester (1 st to 3 rd month) 2 nd trimester (4 th to 6 th month) 3 rd trimester (7 th to final month) No prenatal care Unknown or not stated
260-269	10	BLANK					
270-271	2	UPREVIS	Number of Prenatal Visits	671	A,S	00-49 99	Number of prenatal visits Unknown or not stated
272-273	2	PREVIS_REC	Number of Prenatal Visits Recode	671	A,S	01 02 03 04 05 06 07 08 09 10 11 12	No visits 1 to 2 visits 3 to 4 visits 5 to 6 visits 7 to 8 visits 9 to 10 visits 11 to 12 visits 13 to 14 visits 15 to 16 visits 17 to 18 visits 19 or more visits Unknown or not stated
274-275	2	BLANK					
276-277	2	WTGAIN	Weight Gain	648	A,S	00-97 98 99	Weight gain in pounds 98 pounds and over Unknown or not stated
278	1	WTGAIN_REC	Weight Gain Recode	648	A,S	1 2 3 4 5	Less than 10 pounds 10 to 14 pounds 15 to 19 pounds 20 to 24 pounds 25 to 29 pounds

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A 2003 Version of US Standard Birth Certificate

S 1989 Version of US Standard Birth Certificate

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
						6	30 to 34 pounds
						7	35 or more pounds
						8	Unknown or not stated
279	1	BLANK					
280	1	DFPC_IMP	Day of Date First Prenatal Care Imputed		R	Blank 1	Day of date first prenatal care not imputed Day of date first prenatal care imputed
281-283	3	BLANK					
284-285	2	CIG_1	Cigarettes 1st Trimester	673	A	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
286-287	2	CIG_2	Cigarettes 2nd Trimester	674	A	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
288-289	2	CIG_3	Cigarettes 3rd Trimester	675	A	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
290	1	TOBUSE	Tobacco Use (Unrevised)	667	S	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
291-292	2	CIGS	Cigarettes per Day		S	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
293	1	UCIG_REC6	Cigarette Recode (Unrevised)		S	0 1 2 3 4 5 6 Blank	Non-smoker 1 to 5 cigarettes daily 6 to 10 cigarettes daily 11 to 20 cigarettes daily 21 to 40 cigarettes daily 41 or more cigarettes daily Unknown or not stated Not on certificate
294	1	CIG_REC	Smoking Status Recode (Revised)	575	A	Y N U X	Yes No Unknown or not stated Not on certificate
295-304	10	BLANK					
305-307	3	PWGT	Prepregnancy Weight	577	A	074 075-374 375 999	less than 75 pounds 75 – 374 pounds 375 or more pounds Unknown or not stated
308	1	FILLER	Filler			Blank	
309-311	3	DWGT	Maternal Delivery Weight	578	A	099 100-399 400 999	less than 100 pounds 100 – 399 pounds 400 or more pounds Unknown or not stated
312	1	FILLER	Filler			Blank	
313-321	9	<u>Risk Factors (Revised)</u>			A	Y N	Yes No
			The checkbox items indented below follow this code structure:				

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A 2003 Version of US Standard Birth Certificate

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
313	1	RF_DIAB	Prepregnancy Diabetes	582		U	Unknown or not stated
314	1	RF_GEST	Gestational Diabetes	583		X	Not on certificate
315	1	RF_PHYP	Prepregnancy Hypertension	584			
316	1	RF_GHYP	Gestational Hypertension	585			
317	1	RF_ECLAM	Hypertension Eclampsia	586			
318	1	RF_PPTERM	Previous Preterm Birth	587			
319	1	RF_PPOUTC	Poor Pregnancy Outcome	588			
320-323	4	BLANK					
324	1	RF_CESAR	Previous Cesareans	593	A	Y N U X	Yes No Unknown or not stated Not on certificate
325-326	2	RF_CESARN	Previous Cesareans Num	594	A	00 01-30 99 Blank	None Number of previous cesareans Unknown / not stated Not on certificate
327-330	4	BLANK					
331-337	7	<u>Risk Factors</u> The checkbox items below follow this structure:				S 1 2 8 9	Yes No Not on certificate Unknown
331	1	URF_DIAB	Diabetes	684	A,S		
332	3	BLANK					
335	1	URF_CHYPER	Chronic Hypertension	688	A,S		
336	1	URF_PHYPER	Prepregnancy Associated Hypertension	689	A,S		
337	1	URF_ECLAMP	Eclampsia	690	A,S		
338-356	19	BLANK					

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A 2003 Version of US Standard Birth Certificate

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
357-359	3	<u>Obstetric Procedures</u> The checkbox items below follow this structure:					1 Yes 2 No 8 Not on certificate 9 Not stated
357	1	UOP_INDUC	Induction of Labor	703	A,S		
358	1	BLANK					
359	1	UOP_TOCOL	Tocolysis	705	A,S		
360-383	24	BLANK					
384	1	<u>Complications of Labor & Delivery</u> The checkbox items below follow this structure: The version is all 1989 Standard unless otherwise noted.			A,S		1 Yes 2 No 8 Not on certificate 9 Not stated
384	1	ULD_BREECH	Breech Delivery	721			
385-391	7	BLANK					
392-395	4	<u>Method of Delivery (Revised)</u>					
392	1	ME_PRES	Fetal Presentation	619	A	1 Cephalic 2 Breech 3 Other 9 Unknown or not stated	
393	1	ME_ROUT	Route & Method of Delivery	620	A	1 Spontaneous 2 Forceps 3 Vacuum 4 Cesarean 9 Unknown or not stated	

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A 2003 Version of US Standard Birth Certificate

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
394	1	ME_TRIAL	Trial of Labor Attempted	621	A	Y N X U	Yes No Not applicable Unknown or not stated
395	1	ME_HYSTER	Hysterotomy/Hysterectomy	800	A	Y N X U	Yes No Not on certificate Unknown or not stated
396-402	6	<u>Method of Delivery</u> The checkbox items indented below follow this structure:			A,S	1 2 8 9	Yes No Not on certificate Unknown or not stated
396	1	UME_VAG	Vaginal	730			
397	1	UME_VBAC	Vaginal after C-Section	731	S		
398	1	UME_PRIMC	Primary C-Section	732	S		
399	1	UME_REPEC	Repeat C-Section	733	S		
400	1	UME_FORCP	Forceps	734			
401	1	UME_VAC	Vacuum	735			
402	1	UME_HYSTER	Hysterectomy/hysterotomy	797	S		
403	1	DMETH_REC	Delivery Method Recode	678	A,S	1 2 9	Vaginal C-section Not stated
404-409	6		BLANK				
410	1	ATTEND	Attendant	801	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
411-422	12		BLANK				
* For the Version column (Ver) the following codes apply:							
A	2003 Version of US Standard Birth Certificate						
S	1989 Version of US Standard Birth Certificate						
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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
423	1	DPLURAL	Plurality Recode		A,S	1 2 3 4 5	Single Twin Triplet Quadruplet Quintuplet or higher
424	1	BLANK					
425	1	IMP_PLUR	Plurality Imputed		A,S	Blank 1	Plurality is imputed Plurality is not imputed
426-435	10	BLANK					
436	1	SEX	Sex of Infant		A,S	M F	Male Female
437	1	IMP_SEX	Sex Imputed 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
		<u>Gestation</u>					
438-439	2	DLMP_MM	Last Normal Menses Month		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
440-441	2	BLANK					

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
442-445	4	DLMP_YY	Date of Last Normal Menses Began		A,S	nnnn 9999	Year of last normal menses Unknown or not stated
446-447	2	ESTGEST	Obstetric/Clinical Gestation Est.	573	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
448-450	3	BLANK					
451-452	2	COMBGEST	Gestation – Detail in Weeks		A,S	02-47 99	2 nd through 47 th week of Gestation Unknown
453-454	2	GESTREC12	Gestation Recode 12		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 32-35 weeks 36 weeks 37-39 weeks 40 weeks 41 weeks 42 weeks and over Unknown
455	1	GESTREC5	Gestation Recode 5		A,S	1 2 3 4 5	Under 20 weeks 20-23 weeks 24-27 weeks 28 weeks and over Unknown
456	1	OBGEST_FLG	Obstetric Estimate of Gestation Used Flag		A,S	Blank 1	Obstetric Estimate is not used Obstetric Estimate is used
457	1	GEST_IMP	Gestation Imputed Flag		A,S	Blank 1	Gestation is not imputed Gestation is imputed
458-462	5	BLANK					

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
463-466	4	DBWT	Birth Weight – Detail in Grams`	A,S	0001-8165	Number of grams 9999	Not stated birth weight
467-470	4	BLANK					
471-472	2	BWTR14	Birth Weight Recode 14		A,S	01 02 03 04 05 06 07 08 09 10 11 12 13 14	0249 grams or less 0250 – 0349 grams 0350 – 0499 grams 0500 – 0999 grams 1000 – 1499 grams 1500 – 1999 grams 2000 – 2499 grams 2500 – 2999 grams 3000 – 3499 grams 3500 – 3999 grams 4000 – 4499 grams 4500 – 4999 grams 5000 – 8165 grams Unknown or Not Stated
473	1	BWTR4	Birth Weight Recode 4		A,S	1 1 2 3	1499 grams or less 1500 – 2499 grams 2500 - 8165 grams Unknown or not stated
474-491	18	BLANK					
492-503	12	<u>Congenital Anomalies of the Fetus (Revised)</u>			A	Y N U	Yes, anomaly reported No, anomaly not reported Unknown
			The checkbox items below follow this structure:				
492	1	CA_ANEN	Anencephaly	635			
493	1	CA_MNSB	Meningomyelocele / Spina Bifida	636			
494	1	CA_CCHD	Cyanotic Congenital Heart Disease	637			
495	1	CA_CDH	Congenital Diaphragmatic Hernia	638			
496	1	CA_OMP	Omphalocele	639			
497	1	CA_GAST	Gastroschisis	640			
498	1	CA_LIMB	Limb Reduction Defect	641			
499	1	CA_CLEFT	Cleft Lip w/ or w/o Cleft Palate	642			

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
	500	1	CA_CLPAL	Cleft Palate alone	643		
501	1	CA_DOWN	Downs Syndrome	644	A	C P N U	Confirmed Pending No Unknown
502	1	CA_DISOR	Suspected Chromosomal Disorder	645	A	C P N U	Confirmed Pending No Unknown
503	1	CA_HYPO	Hypospadias	646	A	Y N U	Yes, anomaly reported No, anomaly not reported Unknown
504-525	22	<u>Congenital Anomalies of the Newborn</u> The checkbox items below follow this structure:			A,S	1 2 8 9	Anomaly reported Anomaly not reported Anomaly not on certificate Anomaly not classifiable
	504	1	UCA_ANEN	Anencephalus	752		
	505	1	UCA_SPINA	Spina Bifida / Meningocele	753		
	506	7	BLANK				
	513	1	UCA_OMPHA	Omphalocele / Gastroschisis	761		
	514	4	BLANK				
	518	1	UCA_CLEFTLP	Cleft Lip / Palate	766		
	519	4	BLANK				
	523	1	UCA_DOWNS	Downs Syndrome	771		
524-568	45	BLANK					
569-801		<u>Flag File for Reporting Flags</u> The reporting flags indented below follow this coding structure:				0 1	Not reporting Reporting
	569	1	F_MORIGIN	Mother's Hispanic origin	A,S		
	570	1	BLANK				

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
571	1	F_MEDUC	Education of Mother		A		
572	1	BLANK					
573	1	F_CLINEST	Obstetric Estimate of Gestation		A,S		
574	1	BLANK					
575	1	F_TOBACO	Tobacco use		A		
576	6	BLANK					
582	1	F_RF_PDIAB	Prepregnancy Diabetes		A		
583	1	F_RF_GDIAB	Gestational Diabetes		A		
584	1	F_RF_PHYPER	Prepregnancy Hypertension		A		
585	1	F_RF_GHYPER	Gestational Hypertension		A		
586	1	F_RF_ECLAMP	Hypertension Eclampsia		A		
587	1	F_RF_PPB	Previous Preterm Birth		A		
588	1	F_RF_PPO	Poor Pregnancy outcomes		A		
589	4	BLANK					
593	1	F_RF_CESAR	Previous Cesarean		A		
594	1	F_RF_NCESAR	Number of Previous Cesareans		A		
595-618	24	BLANK					
619	1	F_MD_PRESENT	Fetal Presentation		A		
620	1	F_MD_ROUTE	Final Route and Method of Delivery		A		
621	1	F_MD_TRIAL	Trial of Labor Attempted		A		
622-634	13	BLANK					
635	1	F_CA_ANEN	Anencephaly		A		
636	1	F_CA_MENIN	Meningomyelocele/Spina Bifida		A		
637	1	F_CA_HEART	Cyanotic Congenital Heart Disease		A		
638	1	F_CA_HERNIA	Congenital Diaphragmatic Hernia		A		
639	1	F_CA_OMPHA	Omphalocele		A		
640	1	F_CA_GASTRO	Gastroschisis		A		
641	1	F_CA_LIMB	Limb Reduction Defect		A		
642	1	F_CA_CLEFTLP	Cleft Lip with or without Cleft Palate		A		
643	1	F_CA_CLEFT	Cleft Plate Alone		A		
644	1	F_CA_DOWNS	Downs Syndrome		A		
645	1	F_CA_CHROM	Suspected Chromosomal Disorder		A		
646	1	F_CA_HYPOS	Hypospadias		A		
647	1	F_MED	Mother's Education (Unrevised)		S		
648	1	F_WTGAIN	Weight Gain		A,S		
649-666	18	BLANK					
667	1	F_TOBAC	Tobacco Use (Unrevised)		S		
668	1	F_MPCB	Month Prenatal Care Began		A		
669	1	BLANK					
670	1	F_CMBGST	Combined Gestation		A		
671	1	F_TPCV	Total Prenatal Care Visits		A,S		

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
672	1	BLANK					
673	1	F_CIGS_1	Cigarettes 1 st Trimester		A		
674	1	F_CIGS_2	Cigarettes 2 nd Trimester		A		
675	1	F_CIGS_3	Cigarettes 3 rd Trimester		A		
676	1	F_FACILITY	Facility		A		
677	1	BLANK					
678	1	DelMethRecF	Delivery Method Recode Flag		A,S		
679-683	5	BLANK					
684	1	F_URF_DIABETES	Diabetes Flag		A,S		
685-687	3	BLANK					
688	1	F_URF_CHYPER	Chron Hyper Flag		A,S		
689	1	F_URF_PHYPER	Prep Hyper Flag		A,S		
690	1	F_URF_ECLAMP	Eclampsia		A,S		
691-703	12	BLANK					
703	1	F_UOB_INDUCT	Induction Flag		A,S		
704	1	BLANK					
705	1	F_UOB_TOCOL	Tocolysis Flag		A,S		
706	15	BLANK					
721	1	F_ULD_BREECH	Breech Flag		A,S		
722-729	8	BLANK					
730	1	F_U_VAGINAL	Vaginal Flag (Unrevised)		S		
731	1	F_U_VBAC	VBAC Flag (Unrevised)		S		
732	1	F_U_PRIMAC	Primary C Flag (Unrevised)		S		
733	1	F_U_REPEAC	Repeat C Flag (Unrevised)		S		
734	1	F_U_FORCEP	Forceps Flag (Unrevised)		S		
735	1	F_U_VACUUM	Vacuum Flag (Unrevised)		S		
736-751	16	BLANK					
752	1	F_UCA_ANEN	Anencephalus Flag		A,S		
753	1	F_UCA_SPINA	Spina Bifida Flag		A,S		
754-760	7	BLANK					
761	1	F_UCA_OMPHALO	Omphalo Flag		A,S		
762-765	4	BLANK					
766	1	F_UCA_CLEFTLP	Cleft Lip Flag		A,S		
767-770	4	BLANK					
771	1	F_UCA_DOWNS	Downs Syndrome Flag		A,S		
772-779	8	BLANK					
780	1	F_MS_u	Mother's Marital Status		A,S		
781-793	13	BLANK					
794	1	F_CIG/DAY_u	Cigarettes per Day (Unrevised)		S		
795	1	F_NPREV	Number of prenatal visits		A		
796	1	BLANK					

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Position	Len	Field	Description	Reporting Flag Position	Vers*	Values	Definition
797	1	F_HYSTERu	Hysterectomy		A,S		
798-799	2	BLANK					
800	1	F_HYSTER_r	Hysterectomy (Revised)		A		
801	1	F_ATTENDANT	Attendant		A,S		

EOF

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Country Codes
(Alphabetical by Code)

Code	Geopolitical Entity
AA	ARUBA
AC	ANTIGUA AND BARBUDA
AE	UNITED ARAB EMIRATES
AF	AFGHANISTAN
AG	ALGERIA
AJ	AZERBAIJAN
AL	ALBANIA
AM	ARMENIA
AN	ANDORRA
AO	ANGOLA
AQ	AMERICAN SAMOA
AR	ARGENTINA
AS	AUSTRALIA
AT	ASHMORE AND CARTIER ISLANDS
AU	AUSTRIA
AV	ANGUILLA
AY	ANTARCTICA
BA	BAHRAIN
BB	BARBADOS
BC	BOTSWANA
BD	BERMUDA
BE	BELGIUM
BF	BAHAMAS, THE
BG	BANGLADESH
BH	BELIZE
BK	BOSNIA AND HERZEGOVINA
BL	BOLIVIA
BM	BURMA
BN	BENIN
BO	BELARUS
BP	SOLOMON ISLANDS
BR	BRAZIL
BS	BASSAS DA INDIA
BT	BHUTAN
BU	BULGARIA
BV	BOUVET ISLAND
BX	BRUNEI
BY	BURUNDI
CA	CANADA
CB	CAMBODIA
CD	CHAD
CE	SRI LANKA
CF	CONGO
CG	CONGO
CH	CHINA
CI	CHILE
CJ	CAYMAN ISLANDS
CK	COCOS (KEELING) ISLANDS
CL	CENTRAL AND SOUTHERN LINE ISLANDS
CM	CAMEROON
CN	COMOROS
CO	COLOMBIA
CQ	NORTHERN MARIANAS ISLANDS
CR	CORAL SEA ISLANDS

Country Codes
(Alphabetical by Code)

Code	Geopolitical Entity
CS	COSTA RICA
CT	CENTRAL AFRICAN REPUBLIC
CU	CUBA
CV	CAPE VERDE
CW	COOK ISLANDS
CY	CYPRUS
CZ	CZECHOSLOVAKIA
DA	DENMARK
DJ	DJIBOUTI
DM	DAHOMY [BENIN]
DO	DOMINICA
DQ	JARVIS ISLAND
DR	DOMINICAN REPUBLIC
EB	EAST BERLIN
EC	ECUADOR
EG	EGYPT
EI	IRELAND
EK	EQUATORIAL GUINEA
EN	ESTONIA
EQ	CANTON AND ENDERBERRY ISLANDS
ER	ERITREA
ES	EL SALVADOR
ET	ETHIOPIA
EU	EUROPA ISLAND
EZ	CZECH REPUBLIC
FG	FRENCH GUIANA
FI	FINLAND
FJ	FIJI
FK	FALKLAND ISLANDS
FM	MICRONESIA, FEDERATED STATES OF
FO	FAROE ISLANDS
FP	FRENCH POLYNESIA
FR	FRANCE
FS	FRENCH SOUTHERN AND ANTARCTIC LANDS
FT	FRENCH TERRITORY OF THE AFFARS AND ISSAS
GA	GAMBIA, THE
GB	GABON
GC	EAST GERMANY (GERMAN DEMOCRATIC REPUBLIC)
GE	WEST GERMANY (FEDERAL REPUBLIC OF GERMANY)
GG	GEORGIA
GH	GHANA
GI	GIBRALTAR
GJ	GRENADA
GK	GUERNSEY
GL	GREENLAND
GM	GERMANY
GN	GILBERT AND ELLICE ISLANDS
GO	GLORIOSO ISLANDS
GP	GUADELOUPE
GQ	GUAM
GR	GREECE
GS	GILBERT ISLANDS
GT	GUATEMALA
GV	GUINEA

Country Codes
(Alphabetical by Code)

Code	Geopolitical Entity
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GY	GUYANA
GZ	GAZA STRIP
HA	HAITI
HK	HONG KONG
HM	HEARD ISLAND AND MCDONALD ISLANDS
HO	HONDURAS
HQ	HOWLAND ISLAND
HR	CROATIA
HU	HUNGARY
IC	ICELAND
ID	INDONESIA
IM	ISLE OF MAN
IN	INDIA
IO	BRITISH INDIAN OCEAN TERRITORY
IP	CLIPPERTON ISLAND
IQ	US MISCELLANEOUS PACIFIC ISLANDS
IR	IRAN
IS	ISRAEL
IT	ITALY
IU	ISRAEL-SYRIA DEMILITARIZED ZONE
IV	COTE D' IVOIRE
IW	ISRAEL-JORDAN DEMILITARIZED ZONE
IY	IRAQ-SAUDI ARABIA NEUTRAL ZONE
IZ	IRAQ
JA	JAPAN
JE	JERSEY
JM	JAMAICA
JN	JAN MAYEN
JO	JORDAN
JQ	JOHNSTON ISLAND
JS	SVALBARD AND JAN MAYEN
JU	JUAN DE NOVA ISLAND
KE	KENYA
KG	KYRGYZSTAN
KN	NORTH KOREA
KR	KIRIBATI
KS	SOUTH KOREA
KT	CHRISTMAS ISLAND
KU	KUWAIT
KZ	KAZAKHSTAN
LA	LAOS
LE	LEBANON
LG	LATVIA
LH	LITHUANIA
LI	LIBERIA
LO	SLOVAKIA
LQ	PALMYRA ATOLL
LS	LIECHTENSTEIN
LT	LESOTHO
LU	LUXEMBOURG
LY	LIBYA
MA	MADAGASCAR
MB	MARTINIQUE
MC	MACAU

Country Codes
(Alphabetical by Code)

Code	Geopolitical Entity
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MD	MOLDOVA
ME	SPANISH NORTH AFRICA
MF	MAYOTTE
MG	MONGOLIA
MH	MONTSERRAT
MI	MALAWI
MK	MACEDONIA, F.Y.R.O.
ML	MALI
MN	MONACO
MO	MOROCCO
MP	MAURITIUS
MQ	MIDWAY ISLAND
MR	MAURITANIA
MT	MALTA
MU	OMAN
MV	MALDIVES
MX	MEXICO
MY	MALAYSIA
MZ	MOZAMBIQUE
NA	NETHERLANDS ANTILLES
NC	NEW CALEDONIA
NE	NIUE
NF	NORFOLK ISLAND
NG	NIGER
NH	VANUATU
NI	NIGERIA
NL	NETHERLANDS
NO	NORWAY
NP	NEPAL
NR	NAURU
NS	SURINAME
NT	NETHERLANDS ANTILLES
NU	NICARAGUA
NZ	NEW ZEALAND
PA	PARAGUAY
PC	PITCAIRN ISLAND
PE	PERU
PF	PARACEL ISLANDS
PG	SPRATLY ISLANDS
PK	PAKISTAN
PL	POLAND
PM	PANAMA
PN	PANAMA
PO	PORTUGAL
PP	PAPUA NEW GUINEA
PQ	PANAMA CANAL ZONE
PS	PALAU
PT	TIMOR
PU	GUINEA-BISSAU
QA	QATAR
RE	REUNION
RH	SOUTHERN RHODESIA
RM	MARSHALL ISLANDS
RO	ROMANIA

Country Codes
(Alphabetical by Code)

Code	Geopolitical Entity
RP	PHILIPPINES
RQ	PUERTO RICO
RS	RUSSIA
RW	RWANDA
SA	SAUDI ARABIA
SB	SAINT PIERRE AND MIQUELON
SC	SAINT KITTS AND NEVIS
SE	SEYCHELLES
SF	SOUTH AFRICA
SG	SENEGAL
SH	SAINT HELENA
SI	SLOVENIA
SK	SIKKIM
SL	SIERRA LEONE
SM	SAN MARINO
SN	SINGAPORE
SO	SOMALIA
SP	SPAIN
SQ	SWAN ISLANDS
SS	SPANISH SAHARA
ST	SAINT LUCIA
SU	SUDAN
SV	SVALBARD
SW	SWEDEN
SX	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
SY	SYRIA
SZ	SWITZERLAND
TC	UNITED ARAB EMIRATES
TD	TRINIDAD AND TOBAGO
TE	TROMELIN ISLAND
TH	THAILAND
TI	TAJIKISTAN
TK	TURKS AND CAICOS ISLANDS
TL	TOKELAU
TN	TONGA
TO	TOGO
TP	SAO TOME AND PRINCIPE
TQ	TRUST TERRITORY OF THE PACIFIC ISLANDS
TS	TUNISIA
TT	EAST TIMOR
TU	TURKEY
TV	TUVALU
TW	TAIWAN
TX	TURKMENISTAN
TZ	TANZANIA
UG	UGANDA
UK	UNITED KINGDOM
UP	UKRAINE
UR	UNION OF SOVIET SOCIALIST REPUBLICS
US	UNITED STATES
UV	BURKINA FASO
UY	URUGUAY
UZ	UZBEKISTAN
VC	SAINT VINCENT AND THE GRENADINES

Country Codes
(Alphabetical by Code)

Code	Geopolitical Entity
VE	VENEZUELA
VI	BRITISH VIRGIN ISLANDS
VM	VIETNAM
VN	NORTH VIETNAM
VQ	UNITED STATES VIRGIN ISLANDS
VS	SOUTH VIETNAM
VT	HOLY SEE (VATICAN CITY)
WA	NAMIBIA
WB	WEST BERLIN
WE	WEST BANK
WF	WALLIS AND FUTUNA
WI	WESTERN SAHARA
WQ	WAKE ISLAND
WS	SAMOA
WZ	SWAZILAND
YE	YEMEN (SANA'A)
YI	YUGOSLAVIA
YM	YEMEN
YO	YUGOSLAVIA
YQ	RYUKYU ISLANDS, SOUTHERN
YS	YEMEN (ADEN)
ZA	ZAMBIA
ZI	ZIMBABWE

Detailed Technical Notes- United States 2006

Fetal Deaths

The U.S. Standard Report of Fetal Death closely resembles the U.S. Certificates of Live Birth in both format and content. The majority of items on the Fetal Death Report are the same as those on the birth certificate. For information not found in the following discussion on the fetal death data file, please see *Detailed Technical Notes, United States, 2006 - Natality*.

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or

http://www.cdc.gov/nchs/fetal_death.htm

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Introduction

These technical notes, published by the Centers for Disease Control and Prevention's National Center for Health Statistics (NCHS), are for the 2006 fetal death data file. These notes supplement the "Technical Notes" of the "Fetal and Perinatal Mortality, United States, 2006" [1]. They are recommended for use with 2006 fetal death data available through VitalStats, a data access and analysis tool, (<http://www.cdc.gov/nchs/VitalStats.htm>), and the public use micro-data file, which may be downloaded at:

<http://www.cdc.gov/nchs/about/major/dvs/Vitalstatsonline.htm#Downloadable> [2]. Micro-data files for both birth and fetal death are also available on CD-ROM by request.

Reference is also often made to the 2006 birth file's "Detailed Technical Notes," which is a more detailed discussion of many more items (variables), and the quality and completeness of the vital registry data. (See [3].) The majority of items on the fetal death reports (see **Figure 1** and **Figure 2**) are the same as those on the birth certificate. The Natality Detailed Technical Notes supplements the "Technical Notes" section of "Births: Final data for 2006" [4].

Fetal death definition and classification

The 1992 Revision of the *Model State Vital Statistics Act and Regulations* recommends the following definition of fetal death. This definition is based on that set forth by the World Health Organization in 1950.

“Fetal death” means death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy and which is not an induced termination of pregnancy. The death is indicated by the fact that after such expulsion or extraction, the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Heartbeats are to be distinguished from transient cardiac contractions; respirations are to be distinguished from fleeting respiratory efforts or gasps [5].

The term “fetal death” is defined on an all-inclusive basis to avoid confusion arising from the use of such terms as stillbirth, spontaneous abortion, and miscarriage. This definition has been adopted by NCHS as the nationally recommended standard. All 57 registration areas except Wisconsin and Puerto Rico have definitions similar to the standard definition [5, 6]. Puerto Rico and Wisconsin have no statutory provision but use a definition consistent with the model law [5,6].

Additionally, to increase comparability of data on fetal deaths for different countries, the United Nations [7] recommends that for statistical purposes fetal deaths be classified as early, intermediate, and late. These groups are defined as follows:

Less than 20 completed weeks of gestation
(early fetal deaths).....Group I

- 20 completed weeks of gestation but less than 28
(intermediate fetal deaths).....Group II
- 28 completed weeks of gestation and over
(late fetal deaths).....Group III
- Gestation period not classifiable in groups I, II, and III.....Group IV

Group IV consists of fetal deaths with gestation not stated but presumed to be 20 weeks

or more.

Sources of data

Fetal-death statistics

Fetal-death statistical files for every year are based on all reports of fetal death received by the National Center for Health Statistics. The fetal-death reporting system of the United States encompasses the 50 states, the District of Columbia, New York City (which is independent of New York State for the purpose of fetal death registration), Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands. In statistical tabulations, United States refers only to the aggregate of the 50 states (including New York City) and the District of Columbia. Data for the territories are presented separately from data for the United States.

Procedures used by NCHS to collect fetal death statistics have changed over the years. Before 1971, tabulations of fetal deaths were based solely on information obtained by NCHS from copies of the original certificates. The information from these copies was edited, coded, and tabulated. Between 1971 and 2006, individual states made the transition from paper to electronic systems, and by 2006, 49 states, plus New York City, the District of Columbia, Puerto Rico, American Samoa, the Virgin Islands, and the Northern Mariana Islands provided NCHS, via the

Vital Statistics Cooperative Program, electronic data files of fetal-death data coded according to NCHS specifications. The remaining areas, California and Guam, submitted photocopies of original reports of fetal deaths and the data were coded by NCHS.

Reporting requirements and completeness

All states have adopted laws requiring the reporting of fetal deaths. Responsibility for completing the report rests with either the hospital or funeral director, depending on state requirements. Registration area requirements for reporting fetal deaths vary [6]. Most of the areas require reporting of fetal death at gestations of 20 weeks or more. **Table A** shows the minimum period of gestation required by each state to report a fetal death in 2006. Fetal deaths may be underreported [8,9]; misclassification of induced terminations of pregnancy as fetal deaths may also occur [10-12].

Under-reporting of fetal deaths is most likely to occur in the earlier part of the required reporting period for each state (see Figure I in reference 9). Thus, for states requiring reporting of all periods of gestation, fetal deaths occurring under 20 weeks of gestation are less completely reported; for states requiring reporting of fetal deaths of 20 weeks or more, fetal deaths occurring at 20-23 weeks are less completely reported. Reporting of fetal deaths at 20-23 weeks of gestation may be more complete for those states that report fetal deaths at all periods of gestation than for others.

To maximize the comparability of data by year and by state, most of the tables on fetal deaths 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 500 grams or more. In 2006, this rule was applied to the following states: Hawaii, New York, Rhode Island and Virginia (see **Table A**).

The 1992 revision of the *Model State Vital Statistics Act and Regulations* [5] changed the recommended reporting requirement to all spontaneous fetal deaths weighing 350 grams or more, or if weight is unknown, fetal deaths of 20 completed weeks of gestation or more. The 1977 revision of the *Model State Vital Statistics Act and Model State Vital Statistics Regulations* [13] had recommended that spontaneous fetal deaths at a gestation of 20 weeks or more or a weight of 350 grams or more be reported. The Model Law of 1977 also recommended that the form for reporting fetal deaths be changed from a certificate to a legally required statistical report. A proposed revision of the Model Law is currently under review:

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

Prior to 1939 the nationally recommended procedure for registration of a fetal death required the filing of a live-birth certificate and a death certificate. In 1939 a separate Standard Certificate of Stillbirth (fetal death) was created to replace the former procedure. Since 1970, procedures have been used to separate reports of spontaneous fetal deaths from those of induced terminations of pregnancy [14]. These procedures were implemented because the health implications of spontaneous fetal deaths are different from those of induced terminations of pregnancy. These procedures are still used.

Standard Report of Fetal Death

History and revisions

For many years, the U.S. Standard Report of Fetal Death, issued by the Public Health Service, has been used as the principal means to attain uniformity in the contents of documents used to collect information on these events [15-17]. It has been modified in each state to the extent required by the particular needs of the state or by special provisions of the state vital statistics law. However, the reports or certificates of most states conform closely in content and arrangement to the standard.

Statistics on fetal deaths were first published for the birth-registration area in 1918 and then every year beginning with 1922. The first issue of the U.S. Standard Certificate of Fetal Death appeared in 1939. Since then, it has been revised in 1949, 1956, 1968, 1978, 1989 and, most recently, in 2003. The website for 2003 U.S. Standard Certificates is found at:

http://www.cdc.gov/nchs/vital_certs_rev.htm; and the revised Report of Fetal Death at:

<http://www.cdc.gov/nchs/data/dvs/FDEATH11-03finalACC.pdf>.

The revisions have been coordinated by the National Center for Health Statistics, Division of Vital Statistics, through consultation with state health officers and registrars; Federal agencies concerned with vital statistics; national, state, and county medical societies; and others working in such fields as public health, social welfare, demography, and insurance. This revision procedure has ensured careful evaluation of each item in terms of its current and future usefulness for legal, medical and health, demographic, and research purposes. New items have been added when necessary, and old items have been modified to ensure better reporting; or in some cases, items have been dropped when their usefulness appeared to be limited.

The 2003 Revision.

In 2003, a revised U.S. Standard Report of Fetal Death was adopted in Washington state January 1, 2003; Michigan adopted later in the year. Three states, Idaho, Michigan, and Utah, implemented the revised report as of January 1, 2004; Oklahoma revised later in 2004. Kansas, Kentucky, Maryland, Nebraska, New Hampshire and South Dakota implemented the revised report as of January 1, 2005. By January 1, 2006, five more states had implemented the 2003 revision: California, Delaware, Florida, Pennsylvania, and Texas. These sixteen states represent 23% of U.S. fetal deaths. Full implementation of the new fetal death report in all reporting areas will be phased in over several years.

A key aspect of the 2003 Revision of the United States Standard Report of Fetal Death has been the re-engineering of the data collection and transmission system. The intent of the re-engineering is to improve data quality, to speed data collection and transmission, and to enhance standardization of vital statistics reporting of the 2003 Revision. This effort is described at: http://www.cdc.gov/nchs/data/dvs/panelreport_acc.pdf [18]. It is recommended that the data to complete the report be obtained from the “Patient’s Worksheet” and the “Facility Worksheet.” For the patient’s worksheet, data are directly obtained from the mother and include items such as race, Hispanic origin, and educational attainment. For the facility worksheet, data are obtained directly from medical records of the woman/mother and fetus for items such as date of last normal menses, pregnancy risk factors, and method of delivery. To assist hospital staff in completing the facility worksheet, a comprehensive instruction manual was developed: *Guide to Completing the Facility Worksheets for the Certificate of Live Birth and Report of Fetal Death (2003 Revision)* [19]. Details of the nature and content of the 1989 revision are available elsewhere [17,20].

The 2006 Fetal Death File

The 2006 Fetal Death Data File consists of data items from the 1989 Revision of the U.S. Standard Report of Fetal Death (Figure 1) used by 34 states and the District of Columbia. It also includes selected data from 16 states: California, Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah, and Washington, which had implemented the 2003 revision of the U. S. Standard Report of Fetal Death as of January 1, 2006 (Figure 2). Revision dates are in **Table B**. Where comparable, data from the revised states are combined with data from the unrevised states and the District of Columbia. The 2003-2006 fetal public use micro-data files include data items common to both the 1989 and 2003 revisions of the U.S. Standard Certificate of Live Birth. Beginning with this public-use file, most non-comparable items exclusive to the 1989 revision are no longer included but are available upon request. However, education, tobacco use, prenatal care and type of cesarean or vaginal delivery are included. New medical checkbox items are also discussed in several natality reports [21-22]. Data for a number of items exclusive to the 2003 Standard Report of Fetal Death, such as maternal morbidity, are not included in the 2006 fetal death file; see Figure 2. Cause-of-fetal-death data are also not currently available.

The file layout is the best source of information on the code structure because it provides the exact codes and recodes that are available. The general rules used to classify fetal death items for unrevised states are similar to those used for natality, as set forth in: *NCHS Instruction manual, Part 12: Computer edits for natality data, effective 1993*, available on the Internet at: <http://www.cdc.gov/nchs/data/dvs/instr12.pdf> [23]. Comparable information is available for the revised fetal death data [24].

Classification of selected key items is discussed in the following pages. Information on

the completeness of reporting of fetal death record data is shown in **Table C**. For information on additional selected data items not discussed in this document, see *Detailed Technical Notes, United States, 2006, Natality* [3].

Geographic detail

Beginning with the 2005 data year, the public release micro-data fetal death file no longer includes geographic detail (e.g., state or county of birth). Information on the new data use policy is available at: http://www.cdc.gov/nchs/nvss/dvs_data_release.htm [25]. However, tabulations of fetal death data by state and for counties with populations of 250,000 or more may be made using the interactive data access tool VitalStats found at <http://www.cdc.gov/nchs/VitalStats.htm> and described below.

Reporting flags

Data in the 2006 public use micro-data file is from either the revised (2003) Report of Fetal Death or unrevised (1989) Report. The 2006 public use micro-data file includes reporting flags to assist in the accurate exclusion of records for items not reported by all states when tabulating data by mother's place of residence. Reporting flags should be used to generate accurate numbers by residence for items which are not reported by all states. Positions for reporting flags are included with data items in the file layout.

Translating "blanks"

In the 2006 fetal file, blanks for items such as the mother's marital status are represented by numeric values in SAS code as (.). However, for some items in the file, e.g., congenital anomalies, blanks in SAS code are represented by character values as empty (' '). Blanks should be made equivalent to unknown values for tabulation. 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 examples of SAS code that may be used to incorporate the correct use of reporting flags and the translation of blanks see below.

Examples of SAS code using reporting flags (and translational blanks)

The example below is for the revised prenatal care item. Prenatal care data based on the revised report are not considered comparable with data based on the unrevised report, and are presented separately. Accordingly, use of the reporting flag for this item will produce 2006 data for the month prenatal care began for the 15 (California is the exception) revised States which had implemented the revised Report as of January 1, 2006 and report this item.

Sample SAS program (revised)

```
01 DATA work;
02 INFILE 'c:fet06.uspub.dat' LRECL=801;
03 INPUT
04 tabflag 9
05 restatus 138
06 precare 245-246
07 f_precare 668;
08 /*Select fetal deaths with presumed gestation of GE 20 weeks */
09 IF tabflag EQ 2;
10 /*Exclude foreign residents*/
11 IF restatus NE 4;
12 /*Select reporting area*/
13 IF f_precare=1;
14 /*Convert blanks to unknown*/
15 IF precare=. THEN precare=99;
16 /* Produce table */
17 PROC FREQ;
18 TABLE precare;
19 RUN;
```

In this example, “restatus” is used to exclude fetal deaths to foreign residents (this is standard practice for all NCHS tabulations). Also in this example, blanks for prenatal care are represented by the numeric code ‘99’.

To produce 2006 data for the month prenatal care began for unrevised states, use the following lines as shown (changes are bolded):

Sample SAS program (unrevised)

```
01 DATA work;
02 INFILE 'c:fet06.uspub.dat' LRECL=801;
03 INPUT
04 tabflag 9
05 restatus 138
06 mpcb 256-257
07 f_mpcb_u 647;
08 /*Select fetal deaths with presumed gestation of GE 20 weeks */
09 IF tabflag EQ 2;
10 /*Exclude foreign residents*/
11 IF restatus NE 4;
12 /*Select reporting area*/
13 IF f_mpcb_u=1;
14 /*Convert blanks to unknown*/
15 IF mcpb=. THEN mcpb =99;
16 /* Produce table */
15 PROC FREQ;
16 TABLE mcpb;
17 RUN;
```

VitalStats

VitalStats is an online data access tool which gives users access to several interactive pre-built tables and the ability to build their own tables from numerous public use variables.

Interactive charting and mapping tools are a key part of the system, and provide powerful options for visualizing and manipulating tabulated data. Additionally, users can export tabulated data to Excel for further analysis. VitalStats is available at: <http://www.cdc.gov/nchs/VitalStats.htm>.

Complete downloadable public use fetal death data sets and documentation are available from the same website.

Data Items

Item completeness

Interpretation of fetal death data must include evaluation of the item completeness of reporting. The percent “not stated” is one measure of the quality of the data. Completeness of reporting varies among items and states. See Table C for the percent of fetal death records on

which specified items were not stated.

In general, percentages of unknown responses are considerably higher for fetal deaths than for live births; and among fetal deaths the percentage unknown is higher for fetal deaths that occur earlier in the gestational period. Unknown responses are shown in frequency tables, but are excluded from the computation of percent distributions and fetal and perinatal mortality rates. Thus, rates for items with a substantial percentage of unknown responses (such as birthweight) may understate the “true” rates of fetal mortality for that characteristic.

Hispanic Origin and Race

Race and Hispanic origin are reported separately on the fetal death report. In tabulations of fetal death data by race and Hispanic origin, data for Hispanic persons are not further classified by race because the majority of women of Hispanic origin are reported as white.

In 1997, the Office of Management and Budget (OMB) issued “Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity”[26]. The 1997 revised standards incorporated two major changes designed to reflect the changing racial and ethnic profile of the United States. First, the revision increased from four to five the minimum set of categories to be used by Federal agencies for identification of race. The 1977 standards required Federal agencies to report race-specific tabulations using a minimum set of four single-race categories: American Indian or Alaska Native (AIAN), Asian or Pacific Islander (API), black, and white. The revised standards called for reporting of Asians separately from Native Hawaiians or Other Pacific Islanders. Secondly, the revised standards also require Federal data collection programs to allow respondents to select *one or more race categories*.

For the 2006 data year, multiple-race was reported for fetal deaths by the 16 states which had implemented the 2003 revised certificate by January 1, as well as by Minnesota which used

the 1989 revision of the fetal death report. Data from the vital records of the remaining unrevised 33 states and the District of Columbia followed the 1977 OMB standards in which a single race is reported [27]. In addition, these areas also report the minimum set of four races as stipulated in the 1977 standards, compared with the minimum of five races for the 1997 standards [26].

To provide uniformity and comparability of the data during the transition period, before multiple-race data are available for all reporting areas, it is necessary to “bridge” the responses of those who reported more than one race to a single-race. Multiple-race is imputed to a single race according to the combination of mothers’ races, Hispanic origin, sex, and age indicated on the fetal death report. The bridging procedure imputes multiple-race of mothers to one of the four minimum races stipulated in the 1977 OMB standards, that is, AIAN, API, black, or white.

Beginning with data for 1989, NCHS is tabulating fetal death, perinatal, and live birth data by race of mother. When the race of the mother is unknown, the mother is assigned the father's race; when information for both parents is missing, the race of the mother is assigned to the specific race of the mother of the preceding record with known race. Information on procedures used in 1988 and prior years is presented elsewhere [28]. For more detailed information on current year procedures, see *Detailed Technical Notes, United States, 2006, Natality* [3]. The 2003 revision of the Report of Fetal Death does not include race or Hispanic origin of father.

Age of mother

Beginning with data for 1989, the U.S. Standard Report of Fetal Death asks for the mother's date of birth. Age of mother is computed from the mother's date of birth and the date of delivery. For those states whose certificates do not contain an item for the mother's date of birth, reported age of the mother (in years) is used. The age of the mother is edited for upper and lower

limits. When mothers are reported to be under 9 years of age or 65 years of age and over, the age of the mother is considered not stated and is assigned as follows: Age of mother not stated is imputed according the mother's race and Hispanic origin and total-birth order (total of live births and other terminations).

Sex of fetus

Beginning with data for 1989, for all fetal deaths of 20 weeks of gestation or more, not-stated sex of fetus is assigned the sex of the fetus from the previous record. Before 1989, no such assignment was made.

Period of gestation

The period of gestation is based on the number of completed weeks elapsed between the first day of the last normal menstrual period (LMP) and the date of delivery. The first day of the LMP is used as the initial date because it can be more accurately determined than the date of conception, which usually occurs 2 weeks after LMP. Data on period of gestation are computed from information on "date of delivery" and "date last normal menses began." If "date last normal menses began" is unknown or if the calculated gestation falls beyond a duration considered biologically plausible or is inconsistent with birthweight, then the obstetric (or clinical) estimate of gestation is used. To improve data quality, beginning with 1993 data, NCHS instituted a computer edit to check for consistency between gestation and delivery weight for natality [23]. Briefly, if the LMP used at gestational age is inconsistent with delivery weight, and the clinical estimate is consistent, the clinical estimate is used; if both are inconsistent with birthweight but are consistent with each other, LMP gestation is used, and birthweight is assigned to unknown. The consistency check matrix was expanded for fetal deaths to take into account earlier gestation ages and lighter delivery weights [24]. These procedures are described in NCHS instruction

manuals [23,24]. All areas reported the LMP in 2006, and all areas except California reported the clinical or obstetric estimate of gestation.

Not stated gestational age--Fetal deaths with gestational age not stated are presumed to be of 20 weeks of gestation or more if the state requires reporting of all fetal deaths at a gestational age of 20 weeks or more or the fetus weighed 500 grams or more in those states requiring reporting of all fetal deaths, regardless of gestational age.

Birthweight

Birthweight may be reported in grams or in pounds and ounces. In the tabulation and presentation of birthweight data, the metric system (grams) has been used to facilitate comparison with other data published in the United States and internationally. Birthweight specified in pounds and ounces is assigned the equivalent of the gram intervals, as follows:

Less than 350 grams	= 0 lb 12 oz or less
350-499 grams	= 0 lb 13 oz-1 lb 1 oz
500-999 grams	= 1 lb 2 oz-2 lb 3 oz
1,000-1,499 grams	= 2 lb 4 oz-3 lb 4 oz
1,500-1,999 grams	= 3 lb 5 oz-4 lb 6 oz
2,000-2,499 grams	= 4 lb 7 oz-5 lb 8 oz
2,500-2,999 grams	= 5 lb 9 oz-6 lb 9 oz
3,000-3,499 grams	= 6 lb 10 oz-7 lb 11 oz
3,500-3,999 grams	= 7 lb 12 oz-8 lb 13 oz
4,000-4,499 grams	= 8 lb 14 oz-9 lb 14 oz
4,500-4,999 grams	= 9 lb 15 oz-11 lb 0 oz
5,000 grams or more	= 11 lb 1 oz or more

Total-birth order

Total-birth order refers to the sum of live births and other terminations (including spontaneous fetal deaths and induced terminations of pregnancy) a woman has had, including the fetal death being recorded. For example, if a woman has given birth to two live babies and to one born dead, the next fetal death to occur is counted as number four in total-birth order.

Beginning with implementation of the 1989 revision of the U.S. Standard Report of Fetal Death, total-birth order is calculated from three items on pregnancy history: Number of previous live births now living; number of previous live births now dead; and number of other terminations (spontaneous and induced at any time after conception). For a discussion of the calculation of total-birth order prior to 1989, see the Technical Appendix from *Vital Statistics of the United States*, 1988, volume II, Mortality [28]).

Although all registration areas use the two standard items in the number of previous live births, registration areas phrase the item pertaining to other terminations of pregnancy differently. Total-birth order for all areas is calculated from the sum of available information. Thus, information on total-birth order may not be completely comparable among the registration areas. In addition, there may be substantial under-reporting of other terminations of pregnancy on the fetal-death report.

Computation of fetal and perinatal mortality rates

Fetal and perinatal mortality *rates* shown in *Fetal and Perinatal Mortality, United States* (1,29) are computed on the basis of the number of live births and fetal deaths.

Perinatal definitions--Beginning with data year 1979, perinatal mortality data have been published for the United States. In the International Statistical Classification of Diseases IOD (ICD) [30], the World Health Organization (WHO) recommends that national perinatal statistics

should include all fetuses and infants delivered weighing at least 500 grams (or when birthweight is unavailable, the corresponding gestational age (22 weeks) or body length (25 cm crown-heel), whether alive or dead. It further recommends that countries should present, solely for international comparisons, standard perinatal statistics in which both the numerator and denominator of all rates are restricted to fetuses and infants weighing 1,000 grams or more (or, where birthweight is unavailable, the corresponding gestational age (28 weeks) or body length (35 cm crown-heel). The international recommendation is intended to capture statistics that are comparable and well-measured whereas countries are encouraged to capture earlier events because of the importance of the earlier events and because it improves the completeness of reporting of later events.

Three definitions of perinatal mortality were developed for use by NCHS [31] in the 1950s:

Perinatal Definition I, generally used for international comparisons, which includes fetal deaths of 28 weeks of gestation or more and infant deaths under 7 days;

Perinatal Definition II, which includes fetal deaths of 20 weeks of gestation or more and infant deaths under 28 days; and

Perinatal Definition III, which includes fetal deaths of 20 weeks of gestation or more and infant deaths under 7 days. [31].

Birthweight and gestational age are not reported on the death certificate in the United States. Statistics for infant deaths are produced by birthweight or gestational age by using NCHS' linked birth/infant death data set for the infant death component of the perinatal events.

Variations in fetal death reporting requirements and practices have implications for comparing perinatal rates among states. Because reporting is generally less complete near the

lower limit of the reporting requirement, states that require reporting of all products of pregnancy, regardless of gestation, are likely to have more complete reporting of fetal deaths at 20 weeks or more than those states that do not. The larger number of fetal deaths reported for these “all periods” states may result in higher perinatal mortality rates than those rates reported for states whose reporting is less complete. Accordingly, reporting completeness may account, in part, for differences among the state perinatal rates, particularly differences for Definitions II and III, which use data for fetal deaths at 20-27 weeks [32].

Not stated-- For Definition I, fetal deaths for which gestation is not stated but presumed to have been of 20 weeks or more are allocated to the category 28 weeks or more, according to the proportion of fetal deaths with stated gestational age that falls into that category. For Definitions II and III, fetal deaths at a presumed gestation of 20 weeks or more are included with those at a stated gestation of 20 weeks or more [1,32]). The allocation of not-stated gestational age for fetal deaths is made individually for each state and separately for the entire United States.

Accordingly, the sum of perinatal deaths for the areas according to Definition I may not equal the total number of perinatal deaths for the United States.

Errata for 2003 and 2004 fetal death data

In the 2003 and 2004 fetal death data files, the Tabulation Flag variable located in position 9 is incorrect, due to a programming error. This variable identifies fetal deaths of stated or presumed period of gestation of either <20 weeks, or 20 weeks or more. Due to this error, some fetal death records with not stated gestational ages that should have been included in the 20 weeks or more group were erroneously assigned to the <20 week group. As most reports of fetal death data include only fetal deaths of 20 weeks or more, this error led to a slight underestimate of fetal mortality rates published in previous reports (33, 34), and User's Guides (35,36). Table D shows the effect of correcting this error on fetal mortality rates by state. In the vast majority of states, the corrected numbers differ from the originally reported numbers by less than 1%. The 2003 and 2004 Fetal death data available through VitalStats, NCHS' online data tabulation system (<http://www.cdc.gov/nchs/VitalStats.htm>), have been corrected, and can be used to provide control totals for program verification.

When using the 2003 and 2004 fetal mortality data files, the data user can easily correct for this problem by adding the following SAS code to their program:

DATA work;

```
    INFILE 'C:FET04US.DAT' LRECL=3350;
    INPUT
        TABFLAG 9
        XOSTATE $32-33
        COMBGEST 451-452;
    IF COMBGEST=99 and XOSTATE IN ('AL', 'AK', 'AZ', 'CA', 'CT', 'DE', 'DC', 'FL', 'ID',
    'IL', 'IN', 'IA', 'KS', 'KY', 'LA', 'ME', 'MD', 'MA', 'MI', 'MN', 'MS', 'MO', 'MT', 'NE',
    'NV', 'NH', 'NJ', 'NM', 'NC', 'ND', 'OH', 'OK', 'OR', 'SC', 'SD', 'TN', 'TX', 'UT', 'VT',
    'WA', 'WI', 'WV', 'WY') THEN TABFLG=2;
```

In this statement, COMBGEST is Gestation – Detail in Weeks, XOSTATE is the Expanded State of Occurrence, and TABFLAG is the Tabulation Flag variable.

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<http://www.cdc.gov/nchs/about/major/dvs/Vitalstatsonline.htm#Downloadable> .

SYMBOLS USED IN TABLES

Data not available.....	---
Category not applicable.....	...
Quantity zero.....	—
Quantity more than 0 but less than 0.05.....	0.0
Figure does not meet standards of reliability or precision.....	*

Figure 1

U.S. STANDARD REPORT OF FETAL DEATH

STATE FILE NUMBER

TYPE/PRINT IN PERMANENT BLACK INK FOR INSTRUCTIONS SEE HANDBOOK

1. FACILITY NAME (If not institution, give street and number)
2. CITY, TOWN, OR LOCATION OF DELIVERY
3. COUNTY OF DELIVERY
4. DATE OF DELIVERY (Month, Day, Year)
5. SEX OF FETUS

PARENTS

6a. MOTHER'S NAME (First, Middle, Last)
6b. MAIDEN SURNAME
7. DATE OF BIRTH (Month, Day, Year)
8a. RESIDENCE STATE
8b. COUNTY
8c. CITY, TOWN, OR LOCATION
8d. STREET AND NUMBER
8e. INSIDE CITY LIMITS? (Yes or no)
8f. ZIP CODE
9. FATHER'S NAME (First, Middle, Last)
10. DATE OF BIRTH (Month, Day, Year)

MOTHER

11. OF HISPANIC ORIGIN? (Specify No or Yes—If yes, specify Cuban, Mexican, Puerto Rican, etc.)
12. RACE—American Indian, Black, White, etc. (Specify below)
13. EDUCATION (Specify only highest grade completed)
14. OCCUPATION AND BUSINESS/INDUSTRY (Worked during last year)

FATHER

11a. No Yes Specify:
11b. No Yes Specify:
12a.
12b.
13a.
13b.
14a.
14b.
14c.
14d.

MULTIPLE BIRTHS Enter State File Number for Mate(s) LIVE BIRTH(S)

15. PREGNANCY HISTORY (Complete each section)
16. MOTHER MARRIED? (At delivery, conception, or any time between) (Yes or no)
17. DATE LAST NORMAL MENSES BEGAN (Month, Day, Year)
18. MONTH OF PREGNANCY PRENATAL CARE BEGAN—First, Second, Third, etc. (Specify)
19. PRENATAL VISITS—Total Number (If none, so state)
20. WEIGHT OF FETUS (Specify Unit)
21. CLINICAL ESTIMATE OF GESTATION (Weeks)
22a. PLURALITY—Single, Twin, Triplet, etc. (Specify)
22b. IF NOT SINGLE BIRTH—Born First, Second, Third, etc. (Specify)

FETAL DEATH(S)

23a. MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply)
24. OBSTETRIC PROCEDURES (Check all that apply)
25. COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)
26. METHOD OF DELIVERY (Check all that apply)
27. CONGENITAL ANOMALIES OF FETUS (Check all that apply)

MEDICAL AND HEALTH INFORMATION

23b. OTHER RISK FACTORS FOR THIS PREGNANCY (Complete all items)
Tobacco use during pregnancy Yes No
Average number cigarettes per day
Alcohol use during pregnancy Yes No
Average number drinks per week
Weight gained during pregnancy lbs.
26. METHOD OF DELIVERY (Check all that apply)
Vaginal
Vaginal birth after previous C-section
Primary C-section
Repeat C-section
Forceps
Vacuum
Hysterotomy/Hysterectomy

CAUSE OF FETAL DEATH

28. **PART I.** Fetal or maternal condition directly causing fetal death. } IMMEDIATE CAUSE Enter only one cause per line for a, b, and c.

a. _____ Specify Fetal or Maternal
DUE TO (OR AS A CONSEQUENCE OF):

b. _____ Specify Fetal or Maternal
DUE TO (OR AS A CONSEQUENCE OF):

c. _____ Specify Fetal or Maternal

Fetal and/or maternal conditions, if any, giving rise to the immediate cause(s), stating the underlying cause last. }

PART II. Other significant conditions of fetus or mother contributing to fetal death but not resulting in the underlying cause given in Part I.

29. FETUS DIED BEFORE LABOR, DURING LABOR OR DELIVERY, UNKNOWN (Specify)

30. ATTENDANT'S NAME AND TITLE (Type/Print)

Name _____

M.D. D.O. C.N.M. Other Midwife

Other (Specify) _____

31. NAME AND TITLE OF PERSON COMPLETING REPORT (Type/Print)

Name _____

Title _____

MOTHER	1. NAME OF FETUS (optional-at the discretion of the parents)		2. TIME OF DELIVERY (24hr)	3. SEX (M/F/Unk)	4. DATE OF DELIVERY (Mo/Day/Yr)		
	5a. CITY, TOWN, OR LOCATION OF DELIVERY	7. PLACE WHERE DELIVERY OCCURRED (Check one) <input type="checkbox"/> Hospital <input type="checkbox"/> Freestanding birthing center <input type="checkbox"/> Home Delivery: Planned to deliver at home? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Clinic/Doctor's office <input type="checkbox"/> Other (Specify) _____		8. FACILITY NAME (If not institution, give street and number)			
	5b. ZIP CODE OF DELIVERY						
	6. COUNTY OF DELIVERY						
	9. FACILITY ID. (NPI)	10a. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)	10b. DATE OF BIRTH (Mo/Day/Yr)				
	10c. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last, Suffix)	10d. BIRTHPLACE (State, Territory, or Foreign Country)					
	11a. RESIDENCE OF MOTHER-STATE	11b. COUNTY		11c. CITY, TOWN, OR LOCATION			
	11d. STREET AND NUMBER	11e. APT. NO.	11f. ZIP CODE	11g. INSIDE CITY LIMITS? <input type="checkbox"/> Yes <input type="checkbox"/> No			
	12a. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)		12b. DATE OF BIRTH (Mo/Day/Yr)	12c. BIRTHPLACE (State, Territory, or Foreign Country)			
	13. METHOD OF DISPOSITION: <input type="checkbox"/> Burial <input type="checkbox"/> Cremation <input type="checkbox"/> Hospital Disposition <input type="checkbox"/> Donation <input type="checkbox"/> Removal from State <input type="checkbox"/> Other (Specify) _____						
ATTENDANT AND REGISTRATION INFORMATION		14. ATTENDANT'S NAME, TITLE, AND NPI NAME: _____ NPI: _____ TITLE: <input type="checkbox"/> MD <input type="checkbox"/> DO <input type="checkbox"/> CNM/CM <input type="checkbox"/> OTHER MIDWIFE <input type="checkbox"/> OTHER (Specify) _____	15. NAME AND TITLE OF PERSON COMPLETING REPORT Name _____ Title _____	16. DATE REPORT COMPLETED ____/____/____ MM DD YYYY	17. DATE RECEIVED BY REGISTRAR ____/____/____ MM DD YYYY		
		18. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH					
CAUSE OF FETAL DEATH		18a. INITIATING CAUSE/CONDITION (AMONG THE CHOICES BELOW, PLEASE SELECT THE <u>ONE</u> WHICH MOST LIKELY BEGAN THE SEQUENCE OF EVENTS RESULTING IN THE DEATH OF THE FETUS) Maternal Conditions/Diseases (Specify) _____ _____ Complications of Placenta, Cord, or Membranes <input type="checkbox"/> Rupture of membranes prior to onset of labor <input type="checkbox"/> Abruptio placenta <input type="checkbox"/> Placental insufficiency <input type="checkbox"/> Prolapsed cord <input type="checkbox"/> Chorioamnionitis <input type="checkbox"/> Other (Specify) _____ Other Obstetrical or Pregnancy Complications (Specify) _____ _____ Fetal Anomaly (Specify) _____ _____ Fetal Injury (Specify) _____ Fetal Infection (Specify) _____ Other Fetal Conditions/Disorders (Specify) _____ _____ <input type="checkbox"/> Unknown		18b. OTHER SIGNIFICANT CAUSES OR CONDITIONS (SELECT OR SPECIFY ALL OTHER CONDITIONS CONTRIBUTING TO DEATH IN ITEM 18b) Maternal Conditions/Diseases (Specify) _____ _____ Complications of Placenta, Cord, or Membranes <input type="checkbox"/> Rupture of membranes prior to onset of labor <input type="checkbox"/> Abruptio placenta <input type="checkbox"/> Placental insufficiency <input type="checkbox"/> Prolapsed cord <input type="checkbox"/> Chorioamnionitis <input type="checkbox"/> Other (Specify) _____ Other Obstetrical or Pregnancy Complications (Specify) _____ _____ Fetal Anomaly (Specify) _____ _____ Fetal Injury (Specify) _____ Fetal Infection (Specify) _____ Other Fetal Conditions/Disorders (Specify) _____ _____ <input type="checkbox"/> Unknown			
		18c. WEIGHT OF FETUS (grams preferred, specify unit) _____ <input type="checkbox"/> grams <input type="checkbox"/> lb/oz		18e. ESTIMATED TIME OF FETAL DEATH <input type="checkbox"/> Dead at time of first assessment, no labor ongoing <input type="checkbox"/> Dead at time of first assessment, labor ongoing <input type="checkbox"/> Died during labor, after first assessment <input type="checkbox"/> Unknown time of fetal death		18f. WAS AN AUTOPSY PERFORMED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned	
		18d. OBSTETRIC ESTIMATE OF GESTATION AT DELIVERY _____ (completed weeks)				18g. WAS A HISTOLOGICAL PLACENTAL EXAMINATION PERFORMED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned	
						18h. WERE AUTOPSY OR HISTOLOGICAL PLACENTAL EXAMINATION RESULTS USED IN DETERMINING THE CAUSE OF FETAL DEATH? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Mother's Name _____
Mother's Medical Record No. _____

MOTHER

19. MOTHER'S EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery) <ul style="list-style-type: none"> <input type="checkbox"/> 8th grade or less <input type="checkbox"/> 9th - 12th grade, no diploma <input type="checkbox"/> High school graduate or GED completed <input type="checkbox"/> Some college credit but no degree <input type="checkbox"/> Associate degree (e.g., AA, AS) <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS) <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA) <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD) 		20. MOTHER OF HISPANIC ORIGIN? (Check the box that best describes whether the mother is Spanish/Hispanic/Latina. Check the "No" box if mother is not Spanish/Hispanic/Latina) <ul style="list-style-type: none"> <input type="checkbox"/> No, not Spanish/Hispanic/Latina <input type="checkbox"/> Yes, Mexican, Mexican American, Chicana <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, other Spanish/Hispanic/Latina (Specify) _____ 		21. MOTHER'S RACE (Check one or more races to indicate what the mother considers herself to be) <ul style="list-style-type: none"> <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribe) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (Specify) _____ <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Samoan <input type="checkbox"/> Other Pacific Islander (Specify) _____ <input type="checkbox"/> Other (Specify) _____ 																							
22. MOTHER MARRIED? (At delivery, conception, or anytime between) <input type="checkbox"/> Yes <input type="checkbox"/> No		23a. DATE OF FIRST PRENATAL CARE VISIT ____ / ____ / ____ <input type="checkbox"/> No Prenatal Care MM / DD / YYYY		23b. DATE OF LAST PRENATAL CARE VISIT ____ / ____ / ____ MM / DD / YYYY		24. TOTAL NUMBER OF PRENATAL VISITS FOR THIS PREGNANCY _____ (If none, enter "0".)																					
25. MOTHER'S HEIGHT _____ (feet/inches)		26. MOTHER'S PREPREGNANCY WEIGHT _____ (pounds)		27. MOTHER'S WEIGHT AT DELIVERY _____ (pounds)		28. DID MOTHER GET WIC FOOD FOR HERSELF DURING THIS PREGNANCY? <input type="checkbox"/> Yes <input type="checkbox"/> No																					
29. NUMBER OF PREVIOUS LIVE BIRTHS		30. NUMBER OF OTHER PREGNANCY OUTCOMES (spontaneous or induced losses or ectopic pregnancies)		31. CIGARETTE SMOKING BEFORE AND DURING PREGNANCY For each time period, enter either the number of cigarettes or the number of packs of cigarettes smoked. IF NONE, ENTER "0".																							
29a. Now Living Number _____ <input type="checkbox"/> None		29b. Now Dead Number _____ <input type="checkbox"/> None		30a. Other Outcomes Number (Do not include this fetus) _____ <input type="checkbox"/> None		Average number of cigarettes or packs of cigarettes smoked per day. <table border="0"> <tr> <td></td> <td># of cigarettes</td> <td>OR</td> <td># of packs</td> </tr> <tr> <td>Three Months Before Pregnancy</td> <td>_____</td> <td>OR</td> <td>_____</td> </tr> <tr> <td>First Three Months of Pregnancy</td> <td>_____</td> <td>OR</td> <td>_____</td> </tr> <tr> <td>Second Three Months of Pregnancy</td> <td>_____</td> <td>OR</td> <td>_____</td> </tr> <tr> <td>Third Trimester of Pregnancy</td> <td>_____</td> <td>OR</td> <td>_____</td> </tr> </table>			# of cigarettes	OR	# of packs	Three Months Before Pregnancy	_____	OR	_____	First Three Months of Pregnancy	_____	OR	_____	Second Three Months of Pregnancy	_____	OR	_____	Third Trimester of Pregnancy	_____	OR	_____
	# of cigarettes	OR	# of packs																								
Three Months Before Pregnancy	_____	OR	_____																								
First Three Months of Pregnancy	_____	OR	_____																								
Second Three Months of Pregnancy	_____	OR	_____																								
Third Trimester of Pregnancy	_____	OR	_____																								
29c. DATE OF LAST LIVE BIRTH ____ / ____ MM / YYYY		30b. DATE OF LAST OTHER PREGNANCY OUTCOME ____ / ____ MM / YYYY		32. DATE LAST NORMAL MENSES BEGAN ____ / ____ / ____ MM / DD / YYYY		33. PLURALITY - Single, Twin, Triplet, etc. (Specify) _____																					
34. IF NOT SINGLE BIRTH- Born First, Second, Third, etc. (Specify) _____		35. MOTHER TRANSFERRED FOR MATERNAL MEDICAL OR FETAL INDICATIONS FOR DELIVERY? <input type="checkbox"/> Yes <input type="checkbox"/> No IF YES, ENTER NAME OF FACILITY MOTHER TRANSFERRED FROM: _____																									

MEDICAL AND HEALTH INFORMATION

36. RISK FACTORS IN THIS PREGNANCY (Check all that apply): <ul style="list-style-type: none"> Diabetes <ul style="list-style-type: none"> <input type="checkbox"/> Prepregnancy (Diagnosis prior to this pregnancy) <input type="checkbox"/> Gestational (Diagnosis in this pregnancy) Hypertension <ul style="list-style-type: none"> <input type="checkbox"/> Prepregnancy (Chronic) <input type="checkbox"/> Gestational (PIH, preeclampsia) <input type="checkbox"/> Eclampsia <input type="checkbox"/> Previous preterm birth <input type="checkbox"/> Other previous poor pregnancy outcome (Includes perinatal death, small-for-gestational age/intrauterine growth restricted birth) <input type="checkbox"/> Pregnancy resulted from infertility treatment-If yes, check all that apply: <ul style="list-style-type: none"> <input type="checkbox"/> Fertility-enhancing drugs, Artificial insemination or Intrauterine insemination <input type="checkbox"/> Assisted reproductive technology (e.g., in vitro fertilization (IVF), gamete intrafallopian transfer (GIFT)) <input type="checkbox"/> Mother had a previous cesarean delivery If yes, how many _____ <input type="checkbox"/> None of the above 		37. INFECTIONS PRESENT AND/OR TREATED DURING THIS PREGNANCY (Check all that apply) <ul style="list-style-type: none"> <input type="checkbox"/> Gonorrhea <input type="checkbox"/> Syphilis <input type="checkbox"/> Chlamydia <input type="checkbox"/> Listeria <input type="checkbox"/> Group B Streptococcus <input type="checkbox"/> Cytomegalovirus <input type="checkbox"/> Parvovirus <input type="checkbox"/> Toxoplasmosis <input type="checkbox"/> None of the above <input type="checkbox"/> Other (Specify) _____ 	
38. METHOD OF DELIVERY <ul style="list-style-type: none"> A. Was delivery with forceps attempted but unsuccessful? <input type="checkbox"/> Yes <input type="checkbox"/> No B. Was delivery with vacuum extraction attempted but unsuccessful? <input type="checkbox"/> Yes <input type="checkbox"/> No C. Fetal presentation at delivery <ul style="list-style-type: none"> <input type="checkbox"/> Cephalic <input type="checkbox"/> Breech <input type="checkbox"/> Other D. Final route and method of delivery (Check one) <ul style="list-style-type: none"> <input type="checkbox"/> Vaginal/Spontaneous <input type="checkbox"/> Vaginal/Forceps <input type="checkbox"/> Vaginal/Vacuum <input type="checkbox"/> Cesarean <ul style="list-style-type: none"> If cesarean, was a trial of labor attempted? <input type="checkbox"/> Yes <input type="checkbox"/> No E. Hysterotomy/Hysterectomy <input type="checkbox"/> Yes <input type="checkbox"/> No 		39. MATERNAL MORBIDITY (Check all that apply) (Complications associated with labor and delivery) <ul style="list-style-type: none"> <input type="checkbox"/> Maternal transfusion <input type="checkbox"/> Third or fourth degree perineal laceration <input type="checkbox"/> Ruptured uterus <input type="checkbox"/> Unplanned hysterectomy <input type="checkbox"/> Admission to intensive care unit <input type="checkbox"/> Unplanned operating room procedure following delivery <input type="checkbox"/> None of the above 	
40. CONGENITAL ANOMALIES OF THE FETUS (Check all that apply) <ul style="list-style-type: none"> <input type="checkbox"/> Anencephaly <input type="checkbox"/> Meningocele/Spina bifida <input type="checkbox"/> Cyanotic congenital heart disease <input type="checkbox"/> Congenital diaphragmatic hernia <input type="checkbox"/> Omphalocele <input type="checkbox"/> Gastroschisis <input type="checkbox"/> Limb reduction defect (excluding congenital amputation and dwarfing syndromes) <input type="checkbox"/> Cleft Lip with or without Cleft Palate <input type="checkbox"/> Cleft Palate alone <input type="checkbox"/> Down Syndrome <ul style="list-style-type: none"> <input type="checkbox"/> Karyotype confirmed <input type="checkbox"/> Karyotype pending <input type="checkbox"/> Suspected chromosomal disorder <ul style="list-style-type: none"> <input type="checkbox"/> Karyotype confirmed <input type="checkbox"/> Karyotype pending <input type="checkbox"/> Hypospadias <input type="checkbox"/> None of the anomalies listed above 			

Table A. Period of gestation/ weight minimums at which fetal-death reporting is required: Each reporting area, 2006

Area	All periods of gestation	16 weeks	20 weeks	20 weeks or 350 grams	20 weeks or 400 grams	20 weeks or 500 grams	5 months	350 grams	500grams
Alabama			X						
Alaska			X						
Arizona				X					
Arkansas	¹ X								
California			X						
Colorado	¹ X								
Connecticut			X						
Delaware								² X	
District of Columbia						X			
Florida			X						
Georgia	¹ X								
Hawaii	X								
Idaho				X					
Illinois			X						
Indiana			X						
Iowa			X						
Kansas								X	
Kentucky				X					
Louisiana				X					
Maine			X						
Maryland			³ X						
Massachusetts				X					
Michigan					X				
Minnesota			X						
Mississippi				X					
Missouri				X					
Montana								⁴ X	
Nebraska			X						
Nevada			X						
New Hampshire				X					
New Jersey			X						
New Mexico									X
New York	X								
New York excluding New York City	X								
New York City	X								
North Carolina			X						
North Dakota			X						
Ohio			X						
Oklahoma			X						
Oregon			X						
Pennsylvania		X							
Rhode Island	X								
South Carolina				X					
South Dakota									X
Tennessee									⁴ X
Texas			X						
Utah			X						
Vermont			⁵ X						
Virginia	X								
Washington			X						
West Virginia			X						
Wisconsin				X					
Wyoming			X						
Puerto Rico							X		
Virgin Islands	X								
Guam				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 weight is unknown, 22 completed weeks of gestation or more.

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

Table B. Implementation of the 2003 U.S. Fetal Death Report:

Each state and the District of Columbia, 2003-2006

Year	2006	2005	2004*	2003
Total	16	11	5	1
Alabama				
Alaska				
Arizona				
Arkansas				
California	X			
Colorado				
Connecticut				
Delaware	X			
District of Columbia				
Florida	X			
Georgia				
Hawaii				
Idaho	X	X	X	
Illinois				
Indiana				
Iowa				
Kansas	X	X		
Kentucky	X	X		
Louisiana				
Maine				
Maryland	X	X		
Massachusetts				
Michigan	X	X	X	
Minnesota				
Mississippi				
Missouri				
Montana				
Nebraska	X	X		
Nevada				
New Hampshire	X	X		
New Jersey				
New Mexico				
New York				
North Carolina				
North Dakota				
Ohio				
Oklahoma	X	X	X*	
Oregon				
Pennsylvania	X			
Rhode Island				
South Carolina				
South Dakota	X	X		
Tennessee				
Texas	X			
Utah	X	X	X	
Vermont				
Virginia				
Washington	X	X	X	X
West Virginia				
Wisconsin				
Wyoming				

* Mid-year reviser

Table C. Percent of fetal death records on which specified items were not stated: United States, each state and the District of Columbia, 2006.
 [By place of residence. Records include only those with stated or presumed period of gestation of 20 weeks or more.]

Reporting area	Total fetal deaths	Length of gestation ¹	Delivery weight	Place of delivery	Hispanic origin of mother	Marital status ²	Mother's educational attainment	
							Unrevised states ³	Revised states ⁴
Total US	25972	2.1	12.0	0.1	5.2	2.0	18.5	11.7
Alaska	60	6.7	25.0	-	15.0	5.0	23.3	----
Alabama	573	0.2	4.5	-	0.2	-	9.8	----
Arizona	564	1.1	3.5	-	3.5	0.4	2.8	----
Arkansas	308	1.3	3.6	-	0.3	-	12.0	----
California	2974	8.7	5.4	0.4	3.2	----	----	6.2
Colorado	383	0.5	8.1	-	1.6	-	7.8	----
Connecticut	234	1.7	5.6	0.4	6.4	-	32.1	----
Delaware	70	-	-	-	1.4	-	----	2.9
District of Columbia	73	2.7	9.6	-	6.8	1.4	47.9	----
Florida	1707	2.1	8.9	0.1	2.9	4.3	----	13.1
Georgia	1005	1.5	16.8	0.2	13.8	-	42.1	----
Hawaii	128	0.8	48.4	0.8	20.3	0.8	39.1	----
Idaho	104	-	6.7	-	-	-	----	7.7
Illinois	1042	0.6	9.6	0.1	3.6	-	9.1	----
Indiana	579	1.7	12.1	0.7	4.1	-	15.2	----
Iowa	234	0.4	4.3	-	0.9	-	7.3	----
Kansas	202	2.0	0.5	-	2.5	1.0	----	12.4
Kentucky	379	-	11.1	0.3	0.5	0.3	----	7.4
Louisiana	386	3.9	9.6	-	0.5	-	8.0	----
Maine	68	2.9	22.1	-	26.5	-	25.0	----
Maryland	618	-	9.1	-	5.2	6.8	----	19.9
Massachusetts	379	0.3	2.1	-	22.2	-	25.3	----
Michigan	707	0.3	9.2	-	21.8	4.0	----	23.6
Minnesota	352	0.3	3.7	-	4.0	-	19.0	----
Mississippi	432	0.5	3.0	-	3.2	0.2	22.2	----
Missouri	456	0.4	4.4	-	2.9	-	13.4	----
Montana	54	-	3.7	-	-	-	3.7	----
Nebraska	149	-	13.4	-	-	-	----	12.8
Nevada	275	1.5	10.9	-	1.5	----	7.6	----
New Hampshire	77	-	5.2	-	3.9	-	----	11.7
New Jersey	783	0.5	6.5	0.1	2.7	0.4	8.3	----
New Mexico	73	4.1	12.3	-	4.1	-	45.2	----
New York	1992	1.4	33.2	-	6.7	----	32.9	----
North Carolina	852	0.9	5.3	-	0.8	-	4.9	----
North Dakota	49	6.1	10.2	-	18.4	-	8.2	----
Ohio	939	0.6	6.4	-	1.1	-	6.5	----
Oklahoma	301	6.6	36.2	-	15.9	13.3	----	29.2
Oregon	207	-	1.4	-	1.0	0.5	15.0	----
Pennsylvania	963	0.7	20.4	0.1	16.4	9.1	----	26.0
Rhode Island	58	-	15.5	-	96.6	-	93.1	----
South Carolina	589	0.5	2.5	-	0.5	-	11.5	----
South Dakota	32	-	3.1	-	-	-	----	3.1
Tennessee	400	1.8	2.0	-	1.8	0.3	16.8	----
Texas	2162	1.9	13.8	0.1	0.4	3.7	----	2.5
Utah	243	-	16.5	-	-	0.4	----	5.3
Vermont	34	2.9	2.9	-	2.9	2.9	14.7	----
Virginia	658	1.1	39.4	0.2	6.1	-	38.6	----
Washington	495	3.2	25.7	0.4	14.3	9.5	----	22.0
West Virginia	138	1.4	15.9	-	-	0.7	17.4	----
Wisconsin	390	0.5	1.8	-	0.8	-	8.2	----
Wyoming	42	2.4	7.1	-	-	-	21.4	----

Table C. Percent of fetal death records on which specified items were not stated: United States, each state and the District of Columbia 2006-Con.
 [By place of residence. Records include only those with stated or presumed period of gestation of 20 weeks or more.]

Reporting area	Total fetal deaths	Month prenatal care began		Number prenatal visits	Tobacco Use ⁵		Pregnancy risk factors ⁶	Method of delivery ⁷	Congenital anomalies ⁸
		Unrevised states ³	Revised states ⁴		Unrevised states ³	Revised states ⁴			
Total US	25972	17.1	18.2	15.1	14.8	12.6	6.3	5.6	7.6
Alaska	60	28.3	----	25.0	16.7	----	11.7	15.0	23.3
Alabama	573	6.3	----	9.6	4.2	----	3.0	1.0	2.8
Arizona	564	4.4	----	4.1	4.1	----	4.1	2.8	3.2
Arkansas	308	10.1	----	11.4	4.9	----	0.3	0.3	0.6
California	2974	----	----	4.9	----	----	1.2	1.4	1.6
Colorado	383	6.3	----	9.7	11.2	----	-	0.3	-
Connecticut	234	16.7	----	14.5	5.1	----	5.6	2.6	10.7
Delaware	70	----	-	1.4	----	1.4	-	-	2.9
District of Columbia	73	45.2	----	32.9	21.9	----	4.1	5.5	4.1
Florida	1707	----	16.5	13.4	----	----	4.2	3.0	4.1
Georgia	1005	23.0	----	21.8	24.4	----	0.1	8.7	0.2
Hawaii	128	43.0	----	38.3	----	----	----	----	----
Idaho	104	----	2.9	1.0	----	5.8	----	1.0	1.0
Illinois	1042	15.0	----	15.8	14.8	----	17.3	12.0	24.2
Indiana	579	15.5	----	15.9	9.0	----	11.1	3.8	10.7
Iowa	234	6.8	----	0.9	4.3	----	1.3	-	0.4
Kansas	202	----	16.8	11.4	----	14.4	1.0	1.0	0.5
Kentucky	379	----	9.2	4.2	----	6.6	4.0	5.8	2.9
Louisiana	386	10.4	----	8.5	4.4	----	2.3	0.8	2.3
Maine	68	17.6	----	19.1	19.1	----	22.1	11.8	26.5
Maryland	618	----	15.0	6.8	----	11.0	0.6	0.5	1.8
Massachusetts	379	23.2	----	17.7	15.8	----	15.6	1.3	17.9
Michigan	707	----	15.4	15.7	----	----	----	4.4	0.6
Minnesota	352	7.7	----	8.0	5.7	----	8.8	0.3	17.6
Mississippi	432	13.4	----	26.6	7.6	----	3.9	0.7	9.7
Missouri	456	12.9	----	13.4	4.6	----	0.9	1.1	2.6
Montana	54	1.9	----	3.7	9.3	----	1.9	-	3.7
Nebraska	149	----	7.4	5.4	----	8.7	----	-	-
Nevada	275	1.8	----	7.3	8.4	----	17.1	9.5	28.0
New Hampshire	77	----	14.3	2.6	----	13.0	-	-	1.3
New Jersey	783	9.1	----	8.7	7.2	----	4.3	2.6	10.9
New Mexico	73	26.0	----	24.7	13.7	----	2.7	4.1	----
New York	1992	39.8	----	37.4	49.9	----	24.7	23.4	----
North Carolina	852	4.7	----	4.8	2.0	----	1.2	1.2	1.3
North Dakota	49	2.0	----	12.2	12.2	----	8.2	6.1	12.2
Ohio	939	9.6	----	10.2	8.8	----	10.5	5.2	13.4
Oklahoma	301	----	4.3	1.0	----	2.7	----	18.3	88.4
Oregon	207	7.7	----	6.3	8.7	----	3.4	-	1.0
Pennsylvania	963	----	34.0	34.4	----	26.1	12.0	4.2	22.1
Rhode Island	58	93.1	----	89.7	87.9	----	93.1	87.9	93.1
South Carolina	589	5.8	----	6.1	2.7	----	1.5	-	2.4
South Dakota	32	----	3.1	6.3	----	3.1	-	-	-
Tennessee	400	11.8	----	13.3	8.8	----	1.0	2.8	1.3
Texas	2162	----	17.8	11.9	----	8.8	0.0	2.8	0.0
Utah	243	----	3.3	3.3	----	2.1	-	-	-
Vermont	34	23.5	----	2.9	20.6	----	11.8	-	8.8
Virginia	658	41.0	----	47.0	8.4	----	6.7	13.2	6.8
Washington	495	----	36.4	33.7	----	24.6	----	20.6	26.7
West Virginia	138	16.7	----	14.5	10.9	----	2.2	1.4	0.7
Wisconsin	390	4.9	----	6.7	0.5	----	0.3	0.3	2.1
Wyoming	42	9.5	----	2.4	14.3	----	4.8	-	11.9

0.0 Quantity more than zero but less than 0.05.

– Quantity zero.

--- Data not available.

FOOTNOTES

^{1/} California reports date last normal menses began but does not report obstetric estimate of gestation.

^{2/} Marital status is not reported by California, Nevada, and New York.

^{3/} Data are based on the 1989 Revision of the Report of Fetal Death. Births to residents of states using the 1989 Standard Certificate of Live Birth occurring in states using the 2003 Standards Certificate of Live Birth are coded as 'not stated' for this item. See "Technical Notes".

^{4/} Data are based on the 2003 Report of Fetal Death. Births to residents of states using the 2003 Standard Certificate of Live Birth occurring in states using the 1989 Standard Certificate of Live Birth are coded as 'not stated' for this item. See "Technical Notes"

^{5/} California and Hawaii do not report tobacco use.

Tobacco use data for Florida or Michigan are not compatible with those for either the 1989 or 2003 revisions.

^{6/} Six states (Idaho, Hawaii, Michigan, Nebraska, Oklahoma and Washington) do not report eclampsia.

^{7/} Hawaii does not report obstetric procedures.

^{8/} Hawaii, New Mexico and New York do not report congenital anomalies.

Table D. Corrected fetal deaths and mortality rates, United States and each state, 2003 and 2004

	2003				2004			
	Number of deaths		Rate\1		Number of deaths		Rate\1	
	Originally	Originally	Originally	Originally	Originally	Originally	Originally	Originally
	Corrected	reported	Corrected	reported	Corrected	reported	Corrected	reported
United States	26,004	25,653	6.32	6.23	26,001	25,655	6.28	6.20
Alabama	519	516	8.64	8.59	537	536	8.94	8.93
Alaska	65	60	6.40	5.91	54	53	5.20	5.10
Arizona	570	568	6.23	6.21	553	548	5.87	5.82
Arkansas	259	259	6.81	6.81	281	281	7.23	7.23
California	2,974	2,862	5.47	5.26	2927	2819	5.34	5.15
Colorado	394	394	5.65	5.65	388	388	5.63	5.63
Connecticut	241	241	5.59	5.59	254	254	6.00	6.00
Delaware	63	63	5.53	5.53	49	49	4.29	4.29
District of Columbia	68	65	8.85	8.46	59	59	7.38	7.38
Florida	1,562	1,549	7.31	7.25	1669	1649	7.60	7.51
Georgia	1,138	1,138	8.30	8.30	1175	1175	8.39	8.39
Hawaii	131	131	7.19	7.19	97	97	5.28	5.28
Idaho	113	113	5.16	5.16	129	129	5.69	5.69
Illinois	1,158	1,148	6.31	6.25	1120	1117	6.16	6.14
Indiana	507	496	5.83	5.71	531	523	6.06	5.97
Iowa	201	201	5.24	5.24	216	215	5.59	5.56
Kansas	208	208	5.24	5.24	194	193	4.87	4.84
Kentucky	339	338	6.10	6.08	362	361	6.45	6.44
Louisiana	479	463	7.31	7.07	486	459	7.38	6.97
Maine	50	50	3.60	3.60	67	67	4.78	4.78
Maryland	629	629	8.32	8.32	593	592	7.88	7.87
Massachusetts	457	457	5.67	5.67	421	420	5.34	5.32
Michigan	731	730	5.54	5.54	745	745	5.71	5.71
Minnesota	337	337	4.79	4.79	364	363	5.13	5.11
Mississippi	404	403	9.44	9.42	403	401	9.32	9.28
Missouri	488	488	6.29	6.29	463	463	5.92	5.92
Montana	55	55	4.79	4.79	42	42	3.63	3.63
Nebraska	151	151	5.79	5.79	163	163	6.15	6.15
Nevada	242	239	7.14	7.05	256	256	7.22	7.22
New Hampshire	68	68	4.70	4.70	67	67	4.58	4.58
New Jersey	769	768	6.54	6.52	753	751	6.49	6.47
New Mexico ³	87	85	3.12	3.05	87	87	3.06	3.06
New York	2,146	2,146	8.39	8.39	2109	2109	8.37	8.37
North Carolina	843	832	7.07	6.98	809	798	6.71	6.61
North Dakota	41	41	5.12	5.12	37	37	4.50	4.50
Ohio	937	929	6.22	6.17	978	970	6.52	6.47
Oklahoma	323	247	6.29	4.82	320	255	6.20	4.95
Oregon	204	203	4.42	4.40	196	195	4.27	4.25
Pennsylvania	956	956	6.51	6.51	903	903	6.20	6.20
Rhode Island	52	52	3.92	3.92	67	67	5.22	5.22
South Carolina	519	517	9.24	9.20	479	479	8.39	8.39
South Dakota ³	40	39	3.61	3.52	37	37	3.25	3.25
Tennessee ³	373	373	4.71	4.71	384	384	4.80	4.80
Texas	2,124	2,063	5.60	5.44	2139	2070	5.58	5.40
Utah	241	241	4.81	4.81	281	279	5.52	5.48
Vermont	21	21	3.18	3.18	29	29	4.38	4.38
Virginia	687	687	6.74	6.74	725	725	6.93	6.93
Washing	509	503	6.28	6.21	437	433	5.32	5.27
West Virginia	144	143	6.83	6.78	146	146	6.94	6.94
Wisconsin	356	356	5.06	5.06	362	359	5.13	5.09
Wyoming	31	31	4.61	4.61	58	58	8.45	8.45

¹Fetal deaths with stated or presumed gestation of 20 weeks or more.²Rate per 1,000 live births and fetal deaths in specified group.³State reports only fetal deaths of 500 grams or more; data for fetal deaths and rates are not comparable to data from other states.

2006 LIST OF DOCUMENTATION TABLES

Revision Status and Table Name

A. Revised and Unrevised Data

- 1-A Fetal deaths by period of gestation and state of occurrence
- 1-B Fetal deaths by period of gestation and territory of occurrence
- 2 Fetal deaths by race of mother: United States and each state
- 3 Fetal deaths by Hispanic origin of mother and by race of mothers of Non-Hispanic origin: United States and each state
- 4 Fetal deaths by age of mother, race and Hispanic origin of mother and sex
- 5 Fetal deaths by birthweight and sex
- 6 Fetal deaths by period of gestation and sex
- 9 Fetal deaths by weight gain of mother during pregnancy, by state
- 10 Fetal deaths to mothers with selected risk factors during pregnancy, characteristics of delivery, and congenital anomalies by age of mother
- 11 Fetal deaths to mothers by method of delivery and by age of mother
- 20 Fetal deaths by plurality, by state
- 22 Fetal deaths by marital status, by state
- 24 Fetal deaths by number of prenatal visits, by age of mother

B. Revised Data

- 1-R Mothers who smoked anytime during pregnancy, and those who quit during pregnancy by age
- 7-R Fetal deaths and percent distribution by mother's prepregnancy weight by revised states
- 8-R Fetal deaths and percent distribution by mother's weight at delivery by revised states
- 15-R Number of fetal deaths by education of mother
- 18-R Number of fetal deaths according to method of delivery and age of mother
- 19-R Number of congenital anomalies of the fetus by age of mother
- 21-R Fetal deaths by place of delivery, by age of mother
- 23-R Fetal deaths by month prenatal care began

C. Unrevised Data

- 7-U Fetal deaths by smoking status of mother by age
- 11-U Fetal deaths by method of delivery by age of mother

U = Unrevised; 1989 Report of Fetal Death

R = Revised; 2003 Report of Fetal Death

Fetal Death Documentation Table 1-A. Fetal Deaths by Period of Gestation and State of Occurrence:
 United States and Each State, 2006
 (Fetal deaths by place of occurrence include fetal deaths that occur
 to nonresidents of the United States)

State of Occurrence	All Fetal Deaths				Fetal Deaths with Stated or Presumed Gestation of 20 Weeks or More			
	Total	Under 20 Weeks	20 Weeks and Over	Not Stated	Total	20-27 Weeks	28 Weeks and Over	Not Stated
United States	52,714	24,582	25,458	2,674	26,002	13,008	12,450	544
Alabama	587	18	568	1	569	296	272	1
Alaska	53	2	47	4	51	13	34	4
Arizona	707	142	559	6	565	259	300	6
Arkansas	303	5	294	4	298	131	163	4
California	3,086	116	2,709	261	2,970	1,232	1,477	261
Colorado	412	17	392	3	394	182	210	2
Connecticut	240	4	232	4	236	119	113	4
Delaware	72	3	69	-	69	26	43	-
District of Columbia	128	5	121	2	123	65	56	2
Florida	1,784	64	1,685	35	1,720	885	800	35
Georgia	1,241	225	996	20	1,011	576	420	15
Hawaii	869	648	131	90	132	90	41	1
Idaho	112	7	105	-	105	36	69	-
Illinois	1,020	29	986	5	991	504	482	5
Indiana	579	11	560	8	568	257	303	8
Iowa	253	13	238	2	240	133	105	2
Kansas	189	2	183	4	187	56	127	4
Kentucky	390	16	372	2	374	188	184	2
Louisiana	422	50	357	15	372	179	178	15
Maine	74	3	69	2	71	37	32	2
Maryland	597	22	575	-	575	302	273	-
Massachusetts	398	20	377	1	378	171	206	1
Michigan	726	22	702	2	704	375	327	2
Minnesota	372	11	360	1	361	170	190	1
Mississippi	442	13	427	2	429	241	186	2
Missouri	515	13	500	2	502	232	268	2
Montana	50	-	50	-	50	16	34	-
Nebraska	151	1	150	-	150	70	80	-
Nevada	302	21	277	4	281	135	142	4
New Hampshire	74	1	73	-	73	33	40	-
New Jersey	776	36	736	4	740	410	326	4
New Mexico	69	3	63	3	66	14	49	3
New York	7,023	5,304	700	1,019	707	362	338	7
New York City	11,695	10,341	1,296	58	1,317	872	424	21
North Carolina	900	32	860	8	868	444	416	8
North Dakota	58	6	49	3	52	15	34	3
Ohio	988	34	948	6	954	493	455	6
Oklahoma	304	11	271	22	293	140	131	22
Oregon	229	22	207	-	207	85	122	-
Pennsylvania	1,424	434	969	21	975	551	418	6
Rhode Island	1,027	949	64	14	64	28	36	-
South Carolina	603	30	570	3	573	325	245	3
South Dakota	36	2	34	-	34	11	23	-
Tennessee	430	7	416	7	423	117	299	7
Texas	2,419	243	2,135	41	2,176	1,102	1,033	41
Utah	280	25	255	-	255	139	116	-
Vermont	32	-	32	-	32	15	17	-
Virginia	7,201	5,582	655	964	662	373	282	7
Washington	509	8	485	16	501	263	222	16
West Virginia	134	-	132	2	134	68	64	2
Wisconsin	392	9	381	2	383	165	216	2
Wyoming	37	-	36	1	37	7	29	1

- Quantity zero.

Fetal Death Documentation Table 1-B Possessions. Fetal Deaths by Period of Gestation and State of Occurrence:
 United States Territories, 2006
 (Fetal deaths by place of occurrence include fetal deaths that occur
 to nonresidents of the United States)

Territory of Occurrence	All Fetal Deaths				Fetal Deaths with Stated or Presumed Gestation of 20 Weeks or More			
	Total	Under 20 Weeks	20 Weeks and Over	Not Stated	Total	20-27 Weeks	28 Weeks and Over	Not Stated
Puerto Rico	493	1	488	4	492	284	204	4
Virgin Islands	24	1	21	2	21	7	14	-
Guam	36	4	32	-	32	8	24	-
American Samoa	21	-	19	2	21	7	12	2
Northern Marianas	18	-	16	2	18	9	7	2

- Quantity zero.

Fetal death Documentation Table 2. Fetal deaths by race of mother: United States and each state, 2006
(Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.)

State	Number				
	All races	White	Black	American Indian or Alaska Native ¹	Asian or Pacific Islander
United States.....	25,972	17,245	7,253	290	1,184
Alabama.....	573	273	290	3	7
Alaska.....	60	32	2	22	4
Arizona.....	564	468	41	42	13
Arkansas.....	308	196	108	2	2
California.....	2,974	2,257	357	29	331
Colorado.....	383	348	23	4	8
Connecticut.....	234	161	64	2	7
Delaware.....	70	37	33	-	-
District of Columbia.....	73	17	55	-	1
Florida.....	1,707	1,010	654	1	42
Georgia.....	1,005	444	528	8	25
Hawaii.....	128	35	4	2	87
Idaho.....	104	99	1	2	2
Illinois.....	1,042	708	303	1	30
Indiana.....	579	447	120	-	12
Iowa.....	234	210	12	1	11
Kansas.....	202	159	32	3	8
Kentucky.....	379	311	65	-	3
Louisiana.....	386	182	198	4	2
Maine.....	68	65	1	2	-
Maryland.....	618	261	328	1	28
Massachusetts.....	379	271	84	-	24
Michigan.....	707	465	228	6	8
Minnesota.....	352	262	47	14	29
Mississippi.....	432	121	308	2	1
Missouri.....	456	312	134	2	8
Montana.....	54	43	-	10	1
Nebraska.....	149	123	12	5	9
Nevada.....	275	228	27	4	16
New Hampshire.....	77	72	1	-	4
New Jersey.....	783	456	263	1	63
New Mexico.....	73	63	1	9	-
New York.....	1,992	1,200	661	-	131
North Carolina.....	852	449	374	7	22
North Dakota.....	49	38	-	10	1
Ohio.....	939	623	294	1	21
Oklahoma.....	301	196	49	42	14
Oregon.....	207	192	5	-	10
Pennsylvania.....	963	640	291	2	30
Rhode Island.....	58	47	7	-	4
South Carolina.....	589	274	312	-	3
South Dakota.....	32	26	-	6	-
Tennessee.....	400	241	152	2	5
Texas.....	2,162	1,677	416	4	65
Utah.....	243	230	3	3	7
Vermont.....	34	32	2	-	-
Virginia.....	658	391	237	3	27
Washington.....	495	386	41	21	47
West Virginia.....	138	129	9	-	-
Wisconsin.....	390	299	76	4	11
Wyoming.....	42	39	-	3	-

- Quantity zero

¹ Includes fetal deaths to Aleuts and Eskimos

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Data for states which report multiple-race for mothers were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Detailed Technical Notes". In this table all women (including Hispanic women) are classified only according to their race; see "Detailed Technical Notes".

The SAS System

Fetal death Documentation Table 3. Fetal deaths by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States and each state, 2006
 [By place of residence]
 (Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.)

States	Origin of mother										
	All origins	Hispanic						Non-Hispanic			
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ¹	White	Black	Not stated
United States.....	25,972	5,523	3,490	410	93	788	742	19,092	11,147	6,695	1,357
Alabama.....	573	28	23	1	-	4	-	544	245	289	1
Alaska.....	60	2	-	-	-	1	1	49	27	2	9
Arizona.....	564	253	237	2	-	11	3	291	208	36	20
Arkansas.....	308	19	16	1	-	1	1	288	178	107	1
California.....	2,974	1,459	1,061	6	6	169	217	1,421	771	332	94
Colorado.....	383	146	103	6	-	11	26	231	202	20	6
Connecticut.....	234	50	4	30	-	10	6	169	104	56	15
Delaware.....	70	12	9	1	-	2	-	57	25	32	1
District of Columbia.....	73	5	3	-	-	2	-	63	13	49	5
Florida.....	1,707	437	120	89	69	132	27	1,221	578	607	49
Georgia.....	1,005	102	78	3	-	12	9	764	274	472	139
Hawaii.....	128	21	1	9	-	-	11	81	17	2	26
Idaho.....	104	21	21	-	-	-	-	83	78	1	-
Illinois.....	1,042	227	173	19	1	12	22	777	470	279	38
Indiana.....	579	49	9	-	-	1	39	506	381	114	24
Iowa.....	234	19	12	-	-	4	3	213	192	12	2
Kansas.....	202	35	27	2	-	2	4	162	125	29	5
Kentucky.....	379	18	12	1	1	-	4	359	291	65	2
Louisiana.....	386	17	6	2	1	8	-	367	172	192	2
Maine.....	68	-	-	-	-	-	-	50	48	1	18
Maryland.....	618	61	18	2	-	35	6	525	194	305	32
Massachusetts.....	379	42	2	22	1	10	7	253	171	63	84
Michigan.....	707	38	24	3	1	1	9	515	353	149	154
Minnesota.....	352	34	17	-	-	5	12	304	225	44	14
Mississippi.....	432	12	8	1	-	2	1	406	97	306	14
Missouri.....	456	25	17	1	-	3	4	418	284	126	13
Montana.....	54	-	-	-	-	-	-	54	43	-	-
Nebraska.....	149	20	14	1	-	3	2	129	105	12	-
Nevada.....	275	97	85	1	-	9	2	174	129	26	4
New Hampshire.....	77	3	-	3	-	-	-	71	66	1	3
New Jersey.....	783	171	27	53	4	79	8	591	287	242	21
New Mexico.....	73	43	13	2	-	-	28	27	18	1	3
New York.....	1,992	442	59	94	2	150	137	1,416	705	589	134
North Carolina.....	852	106	84	2	-	16	4	739	340	370	7
North Dakota.....	49	1	-	-	-	-	-	39	28	-	9
Ohio.....	939	33	19	3	-	1	8	896	586	288	10
Oklahoma.....	301	27	26	1	-	-	-	226	151	45	48
Oregon.....	207	43	33	-	-	1	9	162	147	5	2
Pennsylvania.....	963	54	7	30	-	4	13	751	509	219	158
Rhode Island.....	58	-	-	-	-	-	-	2	2	-	56
South Carolina.....	589	28	20	-	3	-	5	558	244	311	3
South Dakota.....	32	-	-	-	-	-	-	32	26	-	-
Tennessee.....	400	19	18	-	-	1	-	374	219	148	7
Texas.....	2,162	1,071	947	7	2	52	63	1,082	612	407	9
Utah.....	243	44	29	1	-	5	9	199	186	3	-
Vermont.....	34	-	-	-	-	-	-	33	32	1	1
Virginia.....	658	71	16	4	-	19	32	547	301	220	40
Washington.....	495	84	70	2	-	7	5	340	257	33	71
West Virginia.....	138	2	2	-	-	-	-	136	127	9	-
Wisconsin.....	390	28	20	5	1	-	2	359	269	75	3
Wyoming.....	42	4	-	-	1	-	3	38	35	-	-

- Quantity zero

¹ Includes races other than white and black

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Data for states which report multiple-race for mothers were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Detailed Technical Notes". In this table all women (including Hispanic women) are classified only according to their race; see "Detailed Technical Notes".

Fetal Death Documentation Table 4
Fetal Deaths by Age of Mother, Race and Hispanic Origin of Mother, and Sex: United States, 2006

(Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more. Not stated sex imputed for fetal deaths of 20 weeks or more gestation.)

Race and Sex /1	Total	Age of Mother								
		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
All races	25,972	85	3,153	6,444	6,557	5,156	3,439	1,046	84	8
Male	13,717	50	1,658	3,340	3,434	2,764	1,877	541	49	4
Female	12,255	35	1,495	3,104	3,123	2,392	1,562	505	35	4
Non-Hispanic white	11,147	18	1,043	2,630	2,946	2,332	1,629	501	42	6
Male	5,795	7	549	1,330	1,493	1,229	902	259	23	3
Female	5,352	11	494	1,300	1,453	1,103	727	242	19	3
Non-Hispanic black	6,695	34	1,051	1,896	1,641	1,129	717	210	15	2
Male	3,630	21	564	1,015	919	593	402	104	11	1
Female	3,065	13	487	881	722	536	315	106	4	1
Hispanic	5,523	25	820	1,446	1,281	1,065	656	214	16	-
Male	2,861	20	412	733	653	574	346	115	8	-
Female	2,662	5	408	713	628	491	310	99	8	-

- Quantity zero.

1 Includes races other than white and black and origin not stated.

NOTE: Race and Hispanic origin are reported separately on fetal death reports. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for fetal deaths are according to mother's Hispanic origin and reported race; see "Detailed Technical Notes."

Fetal Death Documentation Table 5
 Fetal Deaths by Birthweight and Sex: United States, 2006

(Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more. Not stated sex imputed for fetal deaths of 20 weeks or more gestation.)

Sex	Total	Birthweight												Not stated
		Under 350 grams	350-499 grams	500-999 grams	1,000-1,499 grams	1,500-1,999 grams	2,000-2,499 grams	2,500-2,999 grams	3,000-3,499 grams	3,500-3,999 grams	4,000-4,499 grams	4,500-4,999 grams	5,000 grams or more	
Total	25,972	3,984	4,075	5,003	2,179	2,050	1,844	1,744	1,365	731	249	106	75	2,567
Male	13,717	2,077	2,170	2,615	1,171	1,081	979	878	697	435	140	73	43	1,358
Female	12,255	1,907	1,905	2,388	1,008	969	865	866	668	296	109	33	32	1,209

- Quantity zero.

Fetal deaths Documentation Table 6. Fetal deaths by period of gestation and sex:
 United States, 2006
 (Fetal deaths with stated or presumed gestation of 20 weeks or more)

Weeks of Gestation ¹	Total	Male	Female
Total.....	25972	13717	12255
..... 20 weeks	2169	1269	900
..... 21 weeks	2542	1406	1136
..... 22 weeks	2356	1253	1103
..... 23 weeks	1764	902	862
..... 24 weeks	1300	662	638
..... 25 weeks	1073	535	538
..... 26 weeks	922	458	464
..... 27 weeks	866	449	417
..... 28 weeks	853	453	400
..... 29 weeks	792	397	395
..... 30 weeks	829	458	371
..... 31 weeks	781	392	389
..... 32 weeks	811	429	382
..... 33 weeks	824	462	362
..... 34 weeks	944	485	459
..... 35 weeks	914	492	422
..... 36 weeks	1023	563	460
..... 37 weeks	1074	556	518
..... 38 weeks	1185	603	582
..... 39 weeks	965	498	467
..... 40 weeks	702	349	353
.....41 weeks or more	741	350	391
Not stated.....	542	296	246

- Quantity zero
¹ Expressed in completed weeks

FETAL DEATH DOCUMENTATION TABLE 9
 FETAL DEATHS BY WEIGHT GAIN OF MOTHER DURING PREGNANCY, BY STATE:
 TOTAL OF 48 REPORTING STATES AND THE DISTRICT OF COLUMBIA, 2006
 [FETAL DEATHS INCLUDE ONLY THOSE WITH STATED OR PRESUMED PERIOD OF GESTATION OF 20 WEEKS OR MORE:]

STATE	Total	Weight gain during pregnancy							Not Stated
		Less than 10 pounds	10-14 pounds	15-19 pounds	20-24 pounds	25-29 pounds	30-34 pounds	35 pounds or more	
United States	22,870	4,555	2,685	2,084	2,053	1,309	1,246	2,117	6,821
Alabama	573	113	77	66	62	45	29	57	124
Alaska	60	4	6	5	8	4	1	6	26
Arizona	564	108	81	53	72	31	43	66	110
Arkansas	308	38	30	26	28	20	19	32	115
Colorado	383	53	37	38	31	17	17	38	152
Connecticut	234	41	27	27	17	11	23	29	59
Delaware	70	22	2	12	10	-	3	17	4
District of Columbia	73	3	3	4	4	3	-	2	54
Florida	1,707	407	205	182	142	101	103	195	372
Georgia	1,005	275	76	38	38	18	19	42	499
Idaho	104	22	17	11	8	16	6	13	11
Illinois	1,042	125	149	82	96	62	57	89	382
Indiana	579	121	72	56	63	52	42	69	104
Iowa	234	55	35	27	23	16	16	25	37
Kansas	202	31	28	16	28	15	23	26	35
Kentucky	379	125	63	47	29	31	28	35	21
Louisiana	386	103	62	36	49	23	15	35	63
Maine	68	9	8	7	10	5	3	6	20
Maryland	618	146	74	58	72	32	39	81	116
Massachusetts	379	48	48	38	49	31	24	36	105
Michigan	707	157	84	81	56	54	49	89	137
Minnesota	352	46	42	33	28	21	18	38	126
Mississippi	432	86	42	37	35	23	23	30	156
Missouri	456	84	56	49	53	34	34	64	82
Montana	54	6	8	3	11	4	5	5	12
Nebraska	149	41	13	25	14	8	14	19	15
Nevada	275	16	15	12	15	10	10	16	181
New Hampshire	77	17	6	11	10	7	6	14	6
New Jersey	783	178	154	90	76	54	41	57	133
New Mexico	73	6	4	2	2	6	7	9	37
New York	1,992	242	190	156	147	87	69	113	988
North Carolina	852	191	113	80	110	51	70	90	147
North Dakota	49	9	7	2	1	2	3	4	21
Ohio	939	120	100	89	91	55	53	104	327
Oklahoma	301	40	36	22	25	16	5	32	125
Oregon	207	42	30	18	29	9	16	23	40
Pennsylvania	963	166	103	70	78	49	51	88	358
Rhode Island	58	2	-	-	-	-	-	2	54
South Carolina	589	175	91	79	46	31	22	46	99
South Dakota	32	7	5	2	6	6	3	2	1
Tennessee	400	25	25	27	34	21	30	38	200
Texas	2,162	688	244	217	153	114	103	188	455
Utah	243	56	34	19	50	18	20	28	18
Vermont	34	5	4	3	2	-	1	5	14
Virginia	658	98	54	30	34	23	18	26	375
Washington	495	104	56	38	37	35	20	35	170
West Virginia	138	23	13	7	9	6	5	5	70
Wisconsin	390	70	52	50	54	27	37	44	56
Wyoming	42	6	4	3	8	5	3	4	9

- Quantity zero

NOTE: Excludes data for California and Hawaii, which did not report weight gain during pregnancy.

New Table 10. Fetal deaths to mothers with selected risk factors during pregnancy, characteristics of delivery, and congenital anomalies by age of mother: Total of 49 reporting states, 2006

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

Risk factors, characteristics, and anomalies	Risk factor, characteristic or anomaly reported									
	All fetal deaths	Age of mother							Factor not reported	Not stated ¹
		All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years		
Rick factors in this pregnancy										
Diabetes	25,844	1,421	60	254	343	373	279	112	22,578	1,845
Hypertension, chronic	25,844	1,005	32	151	247	275	214	86	22,994	1,845
Hypertension, pregnancy-associated	25,844	1,124	133	278	303	211	151	48	22,875	1,845
Characteristics of delivery										
Breech or malpresentation	25,844	4,599	620	1,170	1,108	894	614	193	17,334	3,911
Congenital anomalies ²										
Anencephaly	23,779	298	43	97	83	45	22	8	21,671	1,810
Meningomyelocele or spina bifida	23,779	103	18	17	30	26	9	3	21,866	1,810
Omphalocele or gastroschisis	23,779	142	28	41	26	20	16	11	21,827	1,810
Cleft lip or palate	23,779	195	23	41	50	37	28	16	21,774	1,810
Down's syndrome	23,779	229	12	22	42	43	62	48	21,740	1,810

¹ No response reported for specific item.

² New Mexico and New York do not report congenital anomalies.

Note: Hawaii does not report these items.

(New) Table 11.

Fetal deaths to mothers by method of delivery, and by age of mother:

Total of 49 reporting states and the District of Columbia, 2006

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

Method of delivery	All fetal deaths ¹	Method of Delivery Reported							Not stated ²
		Age of mother							
		All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	
Vaginal delivery									
Total vaginal	25,844	20,746	2,798	5,273	5,209	3,978	2,628	860	1,442
Vaginal with forceps	25,844	189	19	45	43	38	32	12	3,756
Vaginal with vacuum	25,844	170	23	37	36	41	25	8	3,767
Cesarean delivery	25,844	3,420	251	789	880	786	537	177	1,442
Hysterectomy/hysterotomy ³	24,242	235	18	57	56	56	36	12	3,581

¹ Total number of fetal deaths to residents of areas reporting respective method of delivery.

² No response reported for method of delivery.

³ Excludes data for Alaska, Connecticut, New York State (not NYC), Oklahoma, Oregon, and Wyoming which do not report hysterectomy or hysterotomy.

Note: Hawaii does not report method of delivery; see "Detailed Technical Notes".

FETAL DEATH DOCUMENTATION TABLE Table 20

FETAL DEATHS BY PLURALITY, BY STATE:

TOTAL OF 50 REPORTING STATES AND THE DISTRICT OF COLUMBIA, 2006

[FETAL DEATHS INCLUDE ONLY THOSE WITH STATED OR PRESUMED PERIOD OF GESTATION OF 20 WEEKS OR MORE:]

STATE	Total	PLURALITY		
		Singleton	Twin	Triplet or higher
United States	25,972	23,599	2,191	182
Alabama	573	529	42	2
Alaska	60	52	8	-
Arizona	564	519	39	6
Arkansas	308	283	25	-
California	2,974	2,674	276	24
Colorado	383	336	45	2
Connecticut	234	198	34	2
Delaware	70	63	7	-
District of Columbia	73	64	9	-
Florida	1,707	1,557	140	10
Georgia	1,005	934	68	3
Hawaii	128	118	9	1
Idaho	104	96	8	-
Illinois	1,042	937	97	8
Indiana	579	526	52	1
Iowa	234	208	20	6
Kansas	202	183	18	1
Kentucky	379	357	22	-
Louisiana	386	349	36	1
Maine	68	63	2	3
Maryland	618	577	35	6
Massachusetts	379	341	35	3
Michigan	707	638	66	3
Minnesota	352	312	40	-
Mississippi	432	389	40	3
Missouri	456	414	38	4
Montana	54	52	2	-
Nebraska	149	135	13	1
Nevada	275	255	19	1
New Hampshire	77	70	7	-
New Jersey	783	693	80	10
New Mexico	73	66	7	-
New York	1,992	1,768	195	29
North Carolina	852	794	54	4
North Dakota	49	45	2	2
Ohio	939	866	66	7
Oklahoma	301	287	14	-
Oregon	207	190	17	-
Pennsylvania	963	899	59	5
Rhode Island	58	49	9	-
South Carolina	589	544	44	1
South Dakota	32	27	5	-
Tennessee	400	366	33	1
Texas	2,162	1,961	185	16
Utah	243	209	30	4
Vermont	34	33	1	-
Virginia	658	629	28	1
Washington	495	430	62	3
West Virginia	138	122	11	5
Wisconsin	390	359	28	3
Wyoming	42	33	9	-

- Quantity zero

FETAL DEATH DOCUMENTATION TABLE 22

FETAL DEATHS BY MARITAL STATUS, BY STATE:

TOTAL OF 47 REPORTING STATES AND THE DISTRICT OF COLUMBIA, 2006

[FETAL DEATHS INCLUDE ONLY THOSE WITH STATED OR PRESUMED PERIOD OF GESTATION OF 20 WEEKS OR MORE.]

STATE	Total(1)	MARITAL STATUS	
		Married	Not Married
United States	20,731	10,178	10,136
Alabama	573	256	317
Alaska	60	28	29
Arizona	564	283	279
Arkansas	308	134	174
Colorado	383	242	141
Connecticut	234	137	97
Delaware	70	33	37
District of Columbia	73	23	49
Florida	1,707	711	923
Georgia	1,005	452	553
Hawaii	128	77	50
Idaho	104	66	38
Illinois	1,042	553	489
Indiana	579	271	308
Iowa	234	144	90
Kansas	202	106	94
Kentucky	379	199	179
Louisiana	386	160	226
Maine	68	37	31
Maryland	618	286	290
Massachusetts	379	224	155
Michigan	707	330	349
Minnesota	352	204	148
Mississippi	432	122	309
Missouri	456	198	258
Montana	54	30	24
Nebraska	149	93	56
New Hampshire	77	52	25
New Jersey	783	430	350
New Mexico	73	28	45
North Carolina	852	416	436
North Dakota	49	28	21
Ohio	939	464	475
Oklahoma	301	141	120
Oregon	207	127	79
Pennsylvania	963	427	448
Rhode Island	58	45	13
South Carolina	589	221	368
South Dakota	32	19	13
Tennessee	400	177	222
Texas	2,162	1,098	984
Utah	243	174	68
Vermont	34	17	16
Virginia	658	312	346
Washington	495	280	168
West Virginia	138	75	62
Wisconsin	390	221	169
Wyoming	42	27	15

- Quantity zero

Includes marital status not stated.

NOTE: Excludes data for California, Nevada and New York which did not report mother's marital status.

FETAL DEATH DOCUMENTATION TABLE 24.

FETAL DEATHS BY NUMBER OF PRENATAL VISITS, BY AGE OF MOTHER: UNITED STATES, 2006

[FETAL DEATHS INCLUDE ONLY THOSE WITH STATED OR PRESUMED PERIOD OF GESTATION OF 20 WEEKS OR MORE.]

NUMBER OF PRENATAL VISITS	Total	AGE OF MOTHER								
		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
Total	25,972	85	3,153	6,444	6,557	5,156	3,439	1,046	84	8
None	1,717	21	318	488	383	262	167	73	4	1
1 - 2	1,719	13	337	491	374	272	176	48	8	-
3 - 4	4,190	17	584	1,103	1,038	760	517	156	14	1
5 - 6	4,666	10	572	1,180	1,187	882	650	168	15	2
7 - 8	3,154	6	342	743	819	682	429	124	9	-
9 - 10	2,781	6	235	654	727	629	399	125	5	1
11 - 12	1,671	3	145	355	453	362	276	72	4	1
13 - 18	1,669	-	126	332	468	416	231	89	7	-
19 or more	484	-	26	101	120	127	80	27	3	-
Not stated	3,921	9	468	997	988	764	514	164	15	2

- Quantity zero

Fetal Death Documentation Table 1-R (Revised states). Mothers who smoked anytime during pregnancy and those who quit during pregnancy by age:

Total of 13 reporting areas: Delaware, Idaho, Kansas, Kentucky, Maryland, Nebraska, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah, and Washington.

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

Tobacco use	All fetal deaths ¹	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	Number	
Any time during pregnancy									
Total	5,795	741	1,471	1,477	1,115	747	244		
Smoker	715	116	227	177	108	66	21		
Non-smoker	4,350	538	1,070	1,115	856	584	187		
Not stated	730	87	174	185	151	97	36		
Quit during pregnancy									
Total	5,795	741	1,471	1,477	1,115	747	244		
Non-smoker	4,350	538	1,070	1,115	856	584	187		
Quit ³	149	24	54	38	17	12	4		
Did not quit	419	61	123	109	67	45	14		
Unknown if quit	147	31	50	30	24	9	3		
Not Stated	730	87	174	185	151	97	36		

- Quantity zero

1 Total number of fetal deaths to residents of reporting area.

2 Mothers who smoked in the three months before pregnancy but reported no smoking during pregnancy.

3 Mothers who smoked in either of the first two trimesters of pregnancy but not in the third trimester.

NOTE: Excludes Florida and Michigan which do not report tobacco use compatible with either the 1989 Revision or the 2003 Revision to the U.S. Standard Report of Fetal death. Also excludes California which does not report tobacco use.

Fetal Documentation Table 7-NPR (revised states)

Fetal Deaths and Percent Distribution by Mother's Prepregnancy Weight:

Total of 15 Reporting Areas: Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah and Washington, 2006

State	Group	50- 74	75- 99	100- 124	125- 149	150- 174	175- 199	200- 249	250- 299	300- 349	350- 400	Not stated	Total
Delaware	Number	-	2	18	18	17	5	6	2	1	-	1	70
	Percent	0.0	2.9	26.1	26.1	24.6	7.2	8.7	2.9	1.4	0.0	0.0	100.0
Florida	Number	-	32	304	396	296	179	160	51	10	3	276	1,707
	Percent	0.0	2.2	21.2	27.7	20.7	12.5	11.2	3.6	0.7	0.2	0.0	100.0
Idaho	Number	-	4	11	26	25	16	13	1	-	-	8	104
	Percent	0.0	4.2	11.5	27.1	26.0	16.7	13.5	1.0	0.0	0.0	0.0	100.0
Kansas	Number	-	1	30	62	36	9	21	2	1	-	40	202
	Percent	0.0	0.6	18.5	38.3	22.2	5.6	13.0	1.2	0.6	0.0	0.0	100.0
Kentucky	Number	-	9	59	97	70	50	46	11	2	2	33	379
	Percent	0.0	2.6	17.1	28.0	20.2	14.5	13.3	3.2	0.6	0.6	0.0	100.0
Maryland	Number	-	-	77	161	82	77	67	31	3	2	118	618
	Percent	0.0	0.0	15.4	32.2	16.4	15.4	13.4	6.2	0.6	0.4	0.0	100.0
Michigan	Number	-	9	94	169	135	78	82	33	5	3	99	707
	Percent	0.0	1.5	15.5	27.8	22.2	12.8	13.5	5.4	0.8	0.5	0.0	100.0
Nebraska	Number	-	-	25	46	18	12	19	8	1	-	20	149
	Percent	0.0	0.0	19.4	35.7	14.0	9.3	14.7	6.2	0.8	0.0	0.0	100.0
New Hampshire	Number	-	1	10	24	16	7	6	2	1	-	10	77
	Percent	0.0	1.5	14.9	35.8	23.9	10.4	9.0	3.0	1.5	0.0	0.0	100.0
Oklahoma	Number	-	2	33	55	33	29	26	8	1	-	114	301
	Percent	0.0	1.1	17.6	29.4	17.6	15.5	13.9	4.3	0.5	0.0	0.0	100.0
Pennsylvania	Number	-	12	110	202	129	76	91	15	4	2	322	963
	Percent	0.0	1.9	17.2	31.5	20.1	11.9	14.2	2.3	0.6	0.3	0.0	100.0
South Dakota	Number	-	-	2	8	9	7	6	-	-	-	-	32
	Percent	0.0	0.0	6.3	25.0	28.1	21.9	18.8	0.0	0.0	0.0	0.0	100.0
Texas	Number	1	33	320	509	365	242	221	54	16	2	399	2,162
	Percent	0.1	1.9	18.2	28.9	20.7	13.7	12.5	3.1	0.9	0.1	0.0	100.0
Utah	Number	-	7	38	72	48	28	31	6	1	-	12	243
	Percent	0.0	3.0	16.5	31.2	20.8	12.1	13.4	2.6	0.4	0.0	0.0	100.0
Washington	Number	-	5	62	89	75	51	40	12	4	-	157	495
	Percent	0.0	1.5	18.3	26.3	22.2	15.1	11.8	3.6	1.2	0.0	0.0	100.0
Total	Number	1	117	1,193	1,934	1,354	866	835	236	50	14	1,609	8,209
	Percent	0.0	1.9	19.1	30.9	21.6	13.8	13.3	3.8	0.8	0.2	0.0	100.0

- Quantity zero.

Note: Excludes data for California.

Fetal death documentation table 8-R (Revised States)

Fetal deaths and percent distribution by mother's weight at delivery:

Total of 15 reporting areas: Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah, and Washington, 2006
 [Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.]

STATE	Group	50-74	75-99	100-124	125-149	150-174	175-199	200-249	250-299	300-349	350-399	400 and more	Not	Total
													Stated	
Delaware	Number	-	-	7	13	16	19	8	3	1	-	-	3	70
	Percent	-	-	10.4	19.4	23.9	28.4	11.9	4.5	1.5	-	-	0.0	100.0
Florida	Number	-	12	112	318	362	272	262	65	18	3	2	281	1,707
	Percent	-	0.8	7.9	22.3	25.4	19.1	18.4	4.6	1.3	0.2	0.1	0.0	100.0
Idaho	Number	-	1	6	18	20	21	22	7	1	-	-	8	104
	Percent	-	1.0	6.3	18.8	20.8	21.9	22.9	7.3	1.0	-	-	0.0	100.0
Kansas	Number	-	1	5	38	43	36	27	9	1	1	-	41	202
	Percent	-	0.6	3.1	23.6	26.7	22.4	16.8	5.6	0.6	0.6	-	0.0	100.0
Kentucky	Number	-	1	28	71	86	73	69	15	5	2	-	29	379
	Percent	-	0.3	8.0	20.3	24.6	20.9	19.7	4.3	1.4	0.6	-	0.0	100.0
Maryland	Number	1	-	28	102	131	93	116	44	9	-	2	92	618
	Percent	0.2	-	5.3	19.4	24.9	17.7	22.1	8.4	1.7	-	0.4	0.0	100.0
Michigan	Number	-	2	30	115	161	97	129	38	18	2	-	115	707
	Percent	-	0.3	5.1	19.4	27.2	16.4	21.8	6.4	3.0	0.3	-	0.0	100.0
Nebraska	Number	-	-	9	31	41	17	26	12	2	-	-	11	149
	Percent	-	-	6.5	22.5	29.7	12.3	18.8	8.7	1.4	-	-	0.0	100.0
New Hampshire	Number	-	-	6	11	17	18	12	3	1	-	-	9	77
	Percent	-	-	8.8	16.2	25.0	26.5	17.6	4.4	1.5	-	-	0.0	100.0
Oklahoma	Number	-	1	13	28	58	39	39	18	3	-	-	102	301
	Percent	-	0.5	6.5	14.1	29.1	19.6	19.6	9.0	1.5	-	-	0.0	100.0
Pennsylvania	Number	-	3	38	155	165	124	137	38	9	1	2	291	963
	Percent	-	0.4	5.7	23.1	24.6	18.5	20.4	5.7	1.3	0.1	0.3	0.0	100.0
South Dakota	Number	-	-	-	3	8	8	10	2	-	-	-	1	32
	Percent	-	-	-	9.7	25.8	25.8	32.3	6.5	-	-	-	0.0	100.0
Texas	Number	-	13	152	429	454	334	333	97	21	3	1	325	2,162
	Percent	-	0.7	8.3	23.4	24.7	18.2	18.1	5.3	1.1	0.2	0.1	0.0	100.0
Utah	Number	-	2	11	49	64	41	47	10	3	-	-	16	243
	Percent	-	0.9	4.8	21.6	28.2	18.1	20.7	4.4	1.3	-	-	0.0	100.0
Washington	Number	-	1	26	74	86	66	68	12	7	2	-	153	495
	Percent	-	0.3	7.6	21.6	25.1	19.3	19.9	3.5	2.0	0.6	-	0.0	100.0
Total	Number	1	37	471	1,455	1,712	1,258	1,305	373	99	14	7	1,477	8,209
	Percent	0.0	0.5	7.0	21.6	25.4	18.7	19.4	5.5	1.5	0.2	0.1	0.0	100.0

- Quantity zero

Note: Excludes data for California.

Fetal Death Documentation Table 15-R. Number of fetal deaths by education of mother:

Total of 16 reporting areas; California, Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah, and Washington, 2006

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

	All fetal deaths	8th grade or less	9th - 12th grade no diploma	12th grade grad or GED	Some college no degree	Assoc. degree	Bachelor degree	Master degree	PhD or Prof.	Unknown
Total	11,183	911	2,170	2,766	1,763	559	1,247	346	117	1,304

- Quantity zero

Fetal Death Documentation Table 18_R.(Revised states). Number of fetal deaths according to method of delivery and age of mother: Total of 16 reporting areas: California, Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah and Washington, 2006 [Fetal death indicate only those with stated or presumed period of gestation of 20 weeks or more; see Technical Appendix.]

Methods of delivery	Total fetal deaths ¹	Total reported All ages	Under 20 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-54 Years	Not stated ²
Attempted forceps / unsuccessful ³	10882	59	11	12	10	13	8	5	2610
Attempted vacuum extraction / unsuccessful ³	10882	41	7	11	8	6	7	2	2622
Fetal presentation at birth									
Cephalic	11183	5446	671	1382	1384	1064	728	217	2885
Breech	11183	2185	303	543	501	447	287	104	2885
Other	11183	667	89	145	172	137	97	27	2885
Final route and method of delivery									
Vaginal/Spontaneous	11183	8726	1198	2195	2174	1689	1100	370	614
Vaginal/Forceps	11183	129	12	28	29	26	22	12	614
Vaginal/Vacuum	11183	101	9	29	23	21	14	5	614
Cesarean	11183	1613	113	350	394	373	287	96	614
Cesarian delivery/trial of labor attempted ³	1559	150	15	29	32	36	29	9	502
Hysterotomy/Hysterectomy ³	10882	181	16	43	44	42	30	6	2872

- Quality zero

1 total number of fetal deaths to residents of reporting area.

2 No response reported.

3 Oklahoma does not report attempted forceps, attempted vacuum extraction, attempted trial of labor or hysterotomy/hysterectomy.

Fetal Death Documentation Table 19_R (Revised states). Number of congenital anomalies of the fetus by age of mother:
 Total of 16 reporting areas: California, Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska,
 New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah and Washington, 2006
 [Fetal death indicate only those with stated or presumed period of gestation of 20 weeks or more; see Technical Appendix.]

Congenital anomaly	All fetal deaths ¹	Congenital Anomaly reported, All ages	Under 20 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-54 Years	Not stated ²
Anencephaly	11183	138	23	44	38	18	12	3	933
Menigomyelocele/spina bifida	11183	59	11	11	16	16	4	1	933
Cyanotic congenital heart disease	11183	54	8	11	13	10	5	7	933
Congenital diaphragmic hernia	11183	23	5	3	6	4	3	2	933
Omphalocele	11183	52	6	10	11	10	9	6	933
Gastroschisis	11183	63	22	19	11	6	4	1	933
Limb reduction defect	11183	44	12	12	9	5	3	3	933
Cleft lip(with or without cleft palate)	11183	86	8	18	21	15	16	8	933
Cleft palate, alone ³	10882	7	1	2	1	-	2	1	662
Down syndrome	11183	111	1	13	23	23	31	20	933
Suspected chromosomal disorder ³	10882	367	33	69	85	63	77	40	662
Hypospadias	11183	9	-	1	6	-	1	1	933

- Quantity zero

1 Total number of fetal deaths to residents of areas reporting specified congenital anomalies of the fetus.

2 No response reported for specified congenital anomaly.

3 Oklahoma does not report cleft palate, alone or suspected chromosomal disorder.

FETAL DEATH DOCUMENTATION TABLE 21-R (REVISED STATES)

FETAL DEATHS BY PLACE OF DELIVERY, BY AGE OF MOTHER:

TOTAL OF 16 REPORTING AREAS: CALIFORNIA, DELAWARE, FLORIDA, IDAHO, KANSAS, KENTUCKY, MARYLAND, MICHIGAN, NEBRASKA, NEW HAMPSHIRE, OKLAHOMA, PENNSYLVANIA, SOUTH DAKOTA, TEXAS, UTAH, AND WASHINGTON, 2006

[FETAL DEATHS INCLUDE ONLY THOSE WITH STATED OR PRESUMED PERIOD OF GESTATION OF 20 WEEKS OR MORE.]

PLACE OF DELIVERY	Total	AGE OF MOTHER								
		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
Total	11,183	32	1,373	2,727	2,790	2,223	1,517	476	40	5
Hospital	10,730	31	1,320	2,630	2,668	2,151	1,443	444	38	5
Free standing birthing center	33	-	4	5	11	7	3	3	-	-
Home (total)	122	-	19	33	36	11	18	5	-	-
Planned	16	-	1	5	5	2	2	1	-	-
Unplanned	71	-	18	19	16	7	10	1	-	-
Unknown if planned	35	-	-	9	15	2	6	3	-	-
Clinic/Doctor's office	29	-	2	3	6	9	6	2	1	-
Other	43	-	7	11	13	3	7	2	-	-
Unknown	226	1	21	45	56	42	40	20	1	-

- Quantity zero

Fetal Death Documentation Table 23-R.(Revised States)Fetal deaths by month prenatal care began.
 Total of 15 reporting areas,Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska,
 New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah, and Washington, 2006
 [Fetal deaths include only those with states or presumed period of gestation of 20 weeks or more.]

Month prenatal care began	Total	Age of mother								
		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
Total	8,209	23	1,051	2,062	2,071	1,591	1,066	315	25	5
First	450	-	45	116	109	96	67	16	1	-
Second	1,796	6	155	377	485	406	286	75	6	-
Third	1,974	3	223	457	528	415	261	79	6	2
Fourth	824	-	129	237	185	133	102	33	5	-
Fifth	494	2	82	160	120	70	45	15	-	-
Six	268	-	48	83	65	40	27	5	-	-
Seventh	103	-	27	25	23	14	11	2	-	1
Eighth	65	-	12	16	15	15	6	1	-	-
Ninth	27	-	3	4	4	9	5	2	-	-
Tenth	10	-	-	3	3	1	2	-	1	-
None	708	7	141	205	162	111	54	26	1	1
Not stated	1,490	5	186	379	372	281	200	61	5	1

- Quantity zero

Note: Excludes data for California.

Fetal Death Documentation Table 7-U. Fetal deaths by smoking status of mother by age:
 Total of 33 reporting states and the District of Columbia, 2006
 (Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.)

Smoking status	All fetal deaths	Age of mother								
		Under 15 years	15-19 Years		20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	
			Total	15-17 years						18-19 years
All races										
Total.....	14,661	53	1,760	583	1,177	3,690	3,740	2,905	1,906	607
Smoker.....	1,942	2	268	65	203	657	521	252	188	54
Non-smoker.....	10,552	44	1,269	433	836	2,524	2,672	2,193	1,398	452
Not stated.....	2,167	7	223	85	138	509	547	460	320	101

- Quantity zero.

Note: Excludes data for Hawaii which does not report tobacco use. Also excludes data for California, Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah, and Washington which implemented the 2003 Revision to the U.S. Standard Report of Fetal Death. This change resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Standard Report of Fetal Death; see "Detailed Technical Notes."

Fetal death documentation table 11_U. Fetal deaths by method of delivery by age of mother: total of 33 reporting states and the District of Columbia, 2006
(Fetal deaths include only those with stated or presumed period of gestation of 20 weeks or more.)

Age of mother	All fetal deaths	Method of delivery											
		Vaginal							Cesarean			Hysterotomy or hysterectomy/2	Not stated
		Total	Vaginal birth after cesarean			Other vaginal			Total	Primary	Repeat		
			All/1	forceps	vacuum	All	Forceps	Vacuum					
All ages.....	14,661	11,550	450	2	5	11,100	124	123	1,870	1,152	718	52	1,189
Under 15 years.....	53	49	-	-	-	49	-	-	2	2	-	-	2
15-19 years.....	1,760	1,518	15	-	-	1,503	8	16	139	120	19	2	101
20-24 years.....	3,690	2,973	93	-	3	2,880	31	23	453	320	133	13	251
25-29 years.....	3,740	2,924	113	1	-	2,811	32	27	499	290	209	12	305
30-34 years.....	2,905	2,186	103	-	-	2,083	25	35	431	254	177	13	275
35-39 years.....	1,906	1,446	92	-	2	1,354	22	16	263	129	134	6	191
40-44 years.....	561	423	32	1	-	391	5	6	74	34	40	6	58
45-54 years.....	46	31	2	-	-	29	1	-	9	3	6	-	6

- Quantity zero.

1 Includes fetal deaths that were not delivered by forceps or vacuum extraction.

2 Excludes data for Alaska, Connecticut, New York, Oregon, and Wyoming which do not report hysterotomy or hysterectomy.

NOTE: Excludes data for California, Delaware, Florida, Idaho, Kansas, Kentucky, Maryland, Michigan, Nebraska, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Texas, Utah, and Washington, which implemented the 2003 Revision to the U.S. Standard Report of Fetal Death. This change has resulted in a lack of comparability between data based on the 2003 Revision and the data based on the 1989 Revision to the U.S. Standard Report of Fetal Death: see "Detailed Technical Notes."

Also excludes data for Hawaii which does not report method of delivery; see "Detailed Technical Notes."