

**DOCUMENTATION OF THE
DETAIL NATALITY TAPE FILE FOR
1999 DATA**

SPECIAL NOTICE

**EFFECTIVE WITH 1998 DATA THE COMMONWEALTH
OF THE NORTHERN MARIANA ISLANDS RECORDS
ARE INCLUDED IN THE TERRITORIES PUBLIC-USE
FILE.**

Public Use Data Tape Documentation - Natality Detail 1999 Data

This tape documentation was prepared in the Division of Vital Statistics. Manju Sharma of the Systems, Programming, and Statistical Resources Branch was responsible for developing the natality documentation and for providing all of the computer programming services necessary to keep it up-to-date.

Melissa Park of the Reproductive Statistics Branch prepared the Technical Appendix. The Registration Methods Section and the Data Acquisition and Evaluation Branch provided consultation to State Vital Statistics offices regarding collection of birth certificate data.

Questions on the documentation or general questions concerning the natality file should be directed to the Systems, Programming, and Statistical Resources Branch, Division of Vital Statistics, NCHS, 6525 Belcrest Road, Room 840, Hyattsville, MD 20782-2003 (301-458-4777).

Questions concerning the Technical Appendix or substantive questions concerning the natality data should be directed to the Reproductive Statistics Branch, Division of Vital Statistics, NCHS, 6525 Belcrest Road, Room 820, Hyattsville, MD 20782-2003 (301-458-4111).

Documentation of the Detail Natality Data File for 1999 Data

Since 1985 natality statistics for all States and the District of Columbia have been based on information from the total file of records. The information is received on computer data tapes coded by the States and provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program. NCHS receives the data for this file from the registration offices of all States, the District of Columbia, and New York City. Natality data for Puerto Rico, Virgin Islands, Guam, American Samoa and the Commonwealth of the Northern Mariana Islands (referred to as Northern Marianas) are included as separate data-set in the public-use file.

Natality data for the United States are limited to births occurring within the United States to U.S. residents and nonresidents. Births to nonresidents of the United States are excluded from all tabulations by place of residence. Births occurring to U.S. citizens outside the United States are not included in this file. Natality data for Puerto Rico, Virgin Islands, Guam, American Samoa and Northern Marianas are limited to births occurring within the respective territories.

Effective January 1, 1989, a revised U.S. Standard Certificate of Live Birth replaced the 1978 revision. The 1989 revision provides a wide variety of new information on maternal and infant health characteristics, representing a significant departure from previous versions in both content and format. For a more detailed discussion of the revised and new items refer to the technical appendix part of this document.

The Office of Management and Budget revised its designation of metropolitan statistical areas based on figures from the 1990 Census. Effective with the 1990 data file, NCHS has been using these new definitions and codes as indicated in the listing of 320 Metropolitan Statistical Areas (MSA's), Primary Metropolitan Statistical Areas (PMSA's), and New England County Metropolitan Areas (NECMA'S) included in this documentation. There are also 20 Consolidated Metropolitan Statistical Areas (CMSA's), which are made up of PMSA's. Because other geographic changes based on 1990 Census became effective with 1994 data file, the metropolitan statistical area destination were updated as well. Effective with the 1994 data-file there are 311 MSA's, PMSA's, and NECMA'S and 18 CMSA's as indicated in the listing included in this documentation.

NCHS has adopted a new policy on release of vital statistics unit record data files. This new policy was implemented for the 1989 vital event files to prevent the inadvertent disclosure of individuals and institutions. As a result, the files for 1989 and later years do not contain the actual day of the birth or the dates of birth of the mother or father. The geographic detail is also restricted; only counties and cities of 100,000 or more population based on the 1990 Census, as well as metropolitan areas of 100,000 or more population based on the 1990 Census, are identified.

Included in this document are:

1. List of data elements and tape locations.
2. Machine/File/Data Characteristics.
3. Detail Record Layout.
4. Geographic Code Outline.
5. Metropolitan Statistical Areas as adapted for use by NCHS/DVS.
6. Technical Appendix.
7. Table 1. Counts of Births by occurrence and residence for each State
8. Report of Final Natality Statistics, 1999

SYMBOLS USED IN TABLES

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

List of Data Elements and Tape Locations

<u>Data Items</u>	<u>Locations</u>
1. General	
a. Data year	1-4
b. Record type	5
c. Resident status	6
2. Occurrence	
a. NCHS State	16-17
b. Expanded NCHS State	14-15
c. NCHS County	18-20
d. Population size - county	26
e. Division	12
f. Region	11
g. FIPS State	21-22
h. FIPS County	23-25
3. Residence	
a. NCHS State	32-33
b. Expanded NCHS State	30-31
c. NCHS County	34-36
d. NCHS City	37-39
e. Population size - city	40
f. Population size - county	58
g. NCHS PSMA/MSA	347-349
h. Met/Nonmet county	41
I. Division	28
j. Region	27
k. FIPS State	42-43
l. FIPS County	44-46
m. FIPS Place	47-51
n. CMSA	52-53
o. FIPS PSMA/MSA	54-57
4. Prenatal Care	
a. Month began	106-109
b. Number of visits	110-113
c. Adequacy of care recode	93
5. Child	
a. Sex	188-189
b. Number at delivery	201
c. Birthweight	193-199
d. Apgar score	205-207
e. Gestation	181-187,208-209
f. Month/year of birth	172-173,176-179

g. Day of week of birth

180

List of Data Elements and Tape Locations

	<u>Data Items</u>	<u>Locations</u>
6.	Mother	
	a. Age	68-76,91-92
	b. Race	79-82
	c. Marital status	86-87
	d. Education	83-85
	e. Place of birth	88-90
	f. Hispanic origin	77-78
7.	Pregnancy History	
	a. Born alive, now living	94-95
	b. Born alive, now dead	96-97
	c. Other terminations	98-99
	d. Total birth order	103-105
	e. Live birth order	100-102
8.	Father	
	a. Age	154-157,166-167
	b. Race	160-162
	c. Hispanic origin	158-159
9.	Other Items	
	a. Residence reporting flags	307-326
	b. Attendant at birth	10
	c. Place of delivery	8-9
	d. Interval since last live birth	128-132
10.	Medical and Health Data	
	a. Method of delivery	217-222,224
	b. Medical risk factors	225-241
	c. Other risk factors	
	Tobacco	242-245
	Alcohol	246-249
	Weight gain during pregnancy	250-252
	d. Obstetric procedures	253-259
	e. Complications of labor and/or delivery	260-275
	f. Abnormal conditions of the newborn	276-284
	g. Congenital anomalies	285-306

Machine/File/Data Characteristics:

ALL DATA SETS:

1.	Machine used:	IBM/3081/K
2.	Language used:	PL/I
3.	File organization:	One file, multiple reels
4.	Record format:	Blocked, fixed format
5.	Record mode:	IBM/EBCDIC 8-bit code
6.	Code scheme:	Numeric/Alphabetic/Blanks
7.	Last block:	May be a short block
8.	Record length:	350
9.	Blocksize:	32550

U.S. DATA SET:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 3,963,465
	b.	By residence: 3,959,417
	c.	To foreign residents: 4,048

PUERTO RICO, VIRGIN ISLANDS, GUAM, AMERICAN SAMOA, AND NORTHERN MARIANAS DATA SET

1.	Record count:	68,613
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PUERTO RICO:

2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 59,684
	b.	By residence: 59,563

VIRGIN ISLANDS:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 1,772
	b.	By residence: 1,671

GUAM:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 4,037
	b.	By residence: 4,021

AMERICAN SAMOA:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 1,736
	b.	By residence: 1,736

NORTHERN MARIANAS:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:

a.	By occurrence:	1,384
b.	By residence:	1,381

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
1-4	4	<u>DATAYEAR</u> <u>Year Birth of Child (Data Year)</u> 1999 ... 1999
5	1	<u>RECTYPE</u> <u>Record Type</u> 1 ... Resident: State and county of occurrence and residence are the same. 2 ... Nonresident: State and/or county of occurrence and residence are different.
6	1	<u>RESTATUS</u> <u>Resident Status</u> <u>United States occurrence</u> 1 ... RESIDENTS: State and county of occurrence and residence are the same. 2 ... INTRASTATE NONRESIDENTS: State of occurrence and residence are the same, but county is different. 3 ... INTERSTATE NONRESIDENTS: State of occurrence and residence are different, but both are in the U.S. 4 ... FOREIGN RESIDENTS: State of occurrence is one of the 50 States or the District of Columbia, but place of residence of mother is outside of the U.S. <u>Puerto Rico occurrence</u> 1 ... RESIDENTS: Territory and county equivalent of occurrence and residence are the same. 2 ... INTRATERRITORY NONRESIDENTS: Territory of occurrence and residence are the same, but county equivalent is different. 4 ... FOREIGN RESIDENTS: Occurred in Puerto Rico to a resident of any other place.

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
6	1	<u>RESTATUS</u> <u>Resident Status (Cont'd)</u>
		<u>Virgin Islands occurrence</u>
	1	... RESIDENTS: Territory and county equivalent of occurrence and residence are the same.
	2	... INTRATERRITORY NONRESIDENTS: Territory of occurrence and residence are the same, but county equivalent is different.
	4	... FOREIGN RESIDENTS: Occurred in the Virgin Islands to a resident of any other place.
		<u>Guam occurrence</u>
	1	... RESIDENTS: Occurred in Guam to a resident of Guam or to a resident of the U.S.
	4	... FOREIGN RESIDENTS: Occurred in Guam to a resident of any place other than Guam or of the U.S.
		<u>American Samoa occurrence</u>
	1	... RESIDENTS: Territory and county equivalent of occurrence and residence are the same.
	2	... INTRATERRITORY NONRESIDENTS: Territory of occurrence and residence are the same, but county equivalent is different.
	4	... FOREIGN RESIDENTS: Occurred in the American Samoa to a resident of any other place.
		<u>Northern Marianas occurrence</u>
	1	... RESIDENTS: Territory and county equivalent of occurrence and residence are the same.
	2	... INTRATERRITORY NONRESIDENTS: Territory of occurrence and residence are the same, but county equivalent is different.
	4	... FOREIGN RESIDENTS: Occurred in the Northern Marianas to a resident of any other place.

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
7	1	<u>RECWT</u> <u>Record Weight</u> 1 ... Constant - as of the 1985 data year, this file contains data on a 100-percent basis from all reporting areas.
8	1	<u>PLDEL</u> <u>Place or Facility of Birth</u> 1 ... Hospital 2 ... Freestanding Birthing Center 3 ... Clinic or Doctor's Office 4 ... A Residence 5 ... Other 9 ... Unknown or Not Stated
9	1	<u>PLDEL3</u> <u>Place or Facility of Birth Recode</u> 1 ... In Hospital 2 ... Not in a Hospital 3 ... Unknown or Not Stated
10	1	<u>BIRATTND</u> <u>Attendant at Birth</u> 1 ... Doctor of Medicine (M.D.) 2 ... Doctor of Osteopathy (D.O.) 3 ... Certified Nurse Midwife (C.N.M.) 4 ... Other Midwife 5 ... Other 9 ... Unknown or Not Stated
11-26	16	<u>NOCCUR</u> <u>Place of Occurrence</u>
11-13	3	<u>RDSSCOCC</u> <u>Region, Division, and State Subcode of Occurrence</u>
11	1	<u>REGNOCC</u>

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
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Region of Occurrence

12	1	<u>DIVOCC</u> <u>Division of Occurrence</u>
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13	1	<u>STSUBOCC</u> <u>State Subcode of Occurrence</u>
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States are coded within division and the structure is designed to sequence the States as they appear in NCHS publications.

000	...	Not applicable: P.R., V.I., A.S., Guam or M.P. occurrence
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1	...	<u>NORTHEAST</u>
1	...	New England
1	...	Maine
2	...	New Hampshire
3	...	Vermont
4	...	Massachusetts

13	1	<u>STSUBOCC</u> <u>State Subcode of Occurrence (Cont'd)</u>
	5	...
	6	...
	2	...
	1	...
	2	...
	3	...
	2	...
	3	...
	1	...
	2	...
	3	...
	4	...
	1	...
	2	...
	3	...
	4	...
	5	...
	6	...
	7	...
	3	...
	5	...

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
		1 ... Delaware
		2 ... Maryland
		3 ... District of Columbia
		4 ... Virginia
		5 ... West Virginia
		6 ... North Carolina
		7 ... South Carolina
		8 ... Georgia
		9 ... Florida
		6 ... <u>East South Central</u>
		1 ... Kentucky
		2 ... Tennessee
		3 ... Alabama
		4 ... Mississippi
		7 ... <u>West South Central</u>
		1 ... Arkansas
		2 ... Louisiana
		3 ... Oklahoma
		4 ... Texas
		4 ... <u>WEST</u>
		8 ... <u>Mountain</u>
		1 ... Montana
		2 ... Idaho
		3 ... Wyoming
		4 ... Colorado
		5 ... New Mexico
		6 ... Arizona
		7 ... Utah
		8 ... Nevada
		9 ... <u>Pacific</u>
		1 ... Washington
		2 ... Oregon
		3 ... California
13	1	<u>STSUBOCC</u> <u>State Subcode of Occurrence (Cont'd)</u>
		4 ... Alaska
		5 ... Hawaii

14-15 2 STNATEXP
Expanded State of Occurrence

This item is designed to separately identify
New York city records from other New York
State records.

United States
01 ... Alabama

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
	02	... Alaska
	03	... Arizona
	04	... Arkansas
	05	... California
	06	... Colorado
	07	... Connecticut
	08	... Delaware
	09	... District of Columbia
	10	... Florida
	11	... Georgia
	12	... Hawaii
	13	... Idaho
	14	... Illinois
	15	... Indiana
	16	... Iowa
	17	... Kansas
	18	... Kentucky
	19	... Louisiana
	20	... Maine
	21	... Maryland
	22	... Massachusetts
	23	... Michigan
	24	... Minnesota
	25	... Mississippi
	26	... Missouri
	27	... Montana
	28	... Nebraska
	29	... Nevada
	30	... New Hampshire
	31	... New Jersey
	32	... New Mexico
	33	... New York
	34	... New York city
	35	... North Carolina
	36	... North Dakota
	37	... Ohio
	38	... Oklahoma
	39	... Oregon
	40	... Pennsylvania
	41	... Rhode Island
	42	... South Carolina
	43	... South Dakota
	44	... Tennessee
	45	... Texas

1999
Detail Natality Record

Tape
Location

Field
Size

Item and Code Outline

Expanded State of Occurrence (Cont'd)

46	...	Utah
47	...	Vermont
48	...	Virginia
49	...	Washington
50	...	West Virginia
51	...	Wisconsin
52	...	Wyoming

Puerto Rico

53	...	Puerto Rico
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Virgin Islands

54	...	Virgin Islands
----	-----	----------------

Guam

55	...	Guam
----	-----	------

American Samoa

62	...	American Samoa
----	-----	----------------

Northern Marianas

63	...	Northern Marianas
----	-----	-------------------

16-17

2

STATENAT

State of Occurrence

United States

01	...	Alabama
02	...	Alaska
03	...	Arizona
04	...	Arkansas
05	...	California
06	...	Colorado
07	...	Connecticut
08	...	Delaware
09	...	District of Columbia
10	...	Florida
11	...	Georgia
12	...	Hawaii
13	...	Idaho
14	...	Illinois
15	...	Indiana
16	...	Iowa
17	...	Kansas
18	...	Kentucky
19	...	Louisiana

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		20 ... Maine
		21 ... Maryland
		22 ... Massachusetts
		23 ... Michigan
		24 ... Minnesota
		25 ... Mississippi
		26 ... Missouri
		27 ... Montana
		28 ... Nebraska
16-17	2	<u>STATENAT</u>
		<u>State of Occurrence (Cont'd)</u>
		29 ... Nevada
		30 ... New Hampshire
		31 ... New Jersey
		32 ... New Mexico
		33 ... New York
		34 ... North Carolina
		35 ... North Dakota
		36 ... Ohio
		37 ... Oklahoma
		38 ... Oregon
		39 ... Pennsylvania
		40 ... Rhode Island
		41 ... South Carolina
		42 ... South Dakota
		43 ... Tennessee
		44 ... Texas
		45 ... Utah
		46 ... Vermont
		47 ... Virginia
		48 ... Washington
		49 ... West Virginia
		50 ... Wisconsin
		51 ... Wyoming
		<u>Puerto Rico</u>
		52 ... Puerto Rico
		<u>Virgin Islands</u>
		53 ... Virgin Islands
		<u>Guam</u>
		54 ... Guam
		<u>American Samoa</u>

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
		06 ... California
		08 ... Colorado
		09 ... Connecticut
		10 ... Delaware
		11 ... District of Columbia
		12 ... Florida
		13 ... Georgia
		15 ... Hawaii
		16 ... Idaho
		17 ... Illinois
		18 ... Indiana
		19 ... Iowa
		20 ... Kansas
		21 ... Kentucky
		22 ... Louisiana
		23 ... Maine
		24 ... Maryland
		25 ... Massachusetts
		26 ... Michigan
		27 ... Minnesota
		28 ... Mississippi
		29 ... Missouri
		30 ... Montana
		31 ... Nebraska
		32 ... Nevada
		33 ... New Hampshire
		34 ... New Jersey
		35 ... New Mexico
		36 ... New York
		37 ... North Carolina
		38 ... North Dakota
		39 ... Ohio

21-22

2

<u>STOCCFIP</u>		
<u>State of Occurrence (FIPS) (Cont'd)</u>		
		40 ... Oklahoma
		41 ... Oregon
		42 ... Pennsylvania
		44 ... Rhode Island
		45 ... South Carolina
		46 ... South Dakota
		47 ... Tennessee
		48 ... Texas
		49 ... Utah
		50 ... Vermont
		51 ... Virginia
		53 ... Washington

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>																														
26	1	<p><u>CNTOCPOP</u> <u>Population Size of County of Occurrence</u></p> <p>Based on the results of the 1990 Census</p> <table border="0" style="margin-left: 40px;"> <tr> <td>0</td> <td>...</td> <td>County of 1,000,000 or more</td> </tr> <tr> <td>1</td> <td>...</td> <td>County of 500,000 to 1,000,000</td> </tr> <tr> <td>2</td> <td>...</td> <td>County of 250,000 to 500,000</td> </tr> <tr> <td>3</td> <td>...</td> <td>County of 100,000 to 250,000</td> </tr> </table>	0	...	County of 1,000,000 or more	1	...	County of 500,000 to 1,000,000	2	...	County of 250,000 to 500,000	3	...	County of 100,000 to 250,000																		
0	...	County of 1,000,000 or more																														
1	...	County of 500,000 to 1,000,000																														
2	...	County of 250,000 to 500,000																														
3	...	County of 100,000 to 250,000																														
27-58	32	<p><u>NRESID</u> <u>Place of Residence</u></p> <p>Refer to the Geographic Code Outline further back in this document for a detailed list of areas and codes. Some Geographic codes have changed to reflect the results of the 1990 Census.</p>																														
27-29	3	<p><u>RDSCRES</u> <u>Region, Division, and State Subcode of Residence</u></p>																														
27	1	<p><u>REGNRES</u> <u>Region of Residence</u></p>																														
28	1	<p><u>DIVRES</u> <u>Division of Residence</u></p>																														
29	1	<p><u>STSUBRES</u> <u>State Subcode of Residence</u></p> <p>States are coded within Division and the code structure is designed to sequence the States as they appear in NCHS publications.</p> <p><u>APPLICABLE TO U.S. ONLY</u></p> <table border="0" style="margin-left: 40px;"> <tr> <td>000</td> <td>...</td> <td><u>Foreign Residents</u></td> </tr> <tr> <td>1</td> <td>...</td> <td><u>NORTHEAST</u></td> </tr> <tr> <td>1</td> <td>...</td> <td><u>New England</u></td> </tr> <tr> <td>1</td> <td>...</td> <td>Maine</td> </tr> <tr> <td>2</td> <td>...</td> <td>New Hampshire</td> </tr> <tr> <td>3</td> <td>...</td> <td>Vermont</td> </tr> <tr> <td>4</td> <td>...</td> <td>Massachusetts</td> </tr> <tr> <td>5</td> <td>...</td> <td>Rhode Island</td> </tr> <tr> <td>6</td> <td>...</td> <td>Connecticut</td> </tr> <tr> <td>2</td> <td>...</td> <td><u>Middle Atlantic</u></td> </tr> </table>	000	...	<u>Foreign Residents</u>	1	...	<u>NORTHEAST</u>	1	...	<u>New England</u>	1	...	Maine	2	...	New Hampshire	3	...	Vermont	4	...	Massachusetts	5	...	Rhode Island	6	...	Connecticut	2	...	<u>Middle Atlantic</u>
000	...	<u>Foreign Residents</u>																														
1	...	<u>NORTHEAST</u>																														
1	...	<u>New England</u>																														
1	...	Maine																														
2	...	New Hampshire																														
3	...	Vermont																														
4	...	Massachusetts																														
5	...	Rhode Island																														
6	...	Connecticut																														
2	...	<u>Middle Atlantic</u>																														

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		1 ... New York
		2 ... New Jersey
		3 ... Pennsylvania
	2	... <u>MIDWEST</u>
	3	... <u>East North Central</u>
		1 ... Ohio
		2 ... Indiana
		3 ... Illinois
		4 ... Michigan
		5 ... Wisconsin
	4	... <u>West North Central</u>
29	1	<u>STSUBRES</u>
		<u>State Subcode of Residence (Cont'd)</u>
		1 ... Minnesota
		2 ... Iowa
		3 ... Missouri
		4 ... North Dakota
		5 ... South Dakota
		6 ... Nebraska
		7 ... Kansas
	3	... <u>SOUTH</u>
	5	... <u>South Atlantic</u>
		1 ... Delaware
		2 ... Maryland
		3 ... District of Columbia
		4 ... Virginia
		5 ... West Virginia
		6 ... North Carolina
		7 ... South Carolina
		8 ... Georgia
		9 ... Florida
	6	... <u>East South Central</u>
		1 ... Kentucky
		2 ... Tennessee
		3 ... Alabama
		4 ... Mississippi
	7	... <u>West South Central</u>
		1 ... Arkansas
		2 ... Louisiana
		3 ... Oklahoma
		4 ... Texas
	4	... <u>WEST</u>
	8	... <u>Mountain</u>
		1 ... Montana
		2 ... Idaho
		3 ... Wyoming

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
		4 ... Colorado
		5 ... New Mexico
		6 ... Arizona
		7 ... Utah
		8 ... Nevada
		9 ... <u>Pacific</u>
		1 ... Washington
		2 ... Oregon
		3 ... California
		4 ... Alaska
		5 ... Hawaii
30-31	2	<u>STRESEXP</u> <u>Expanded State of Residence</u>
		This item is designed to separately identify New York City records from other New York State records.
		<u>United States occurrence</u>
		01 ... Alabama
		02 ... Alaska
30-31	2	<u>STRESEXP</u> <u>Expanded State of Residence (Cont'd)</u>
		03 ... Arizona
		04 ... Arkansas
		05 ... California
		06 ... Colorado
		07 ... Connecticut
		08 ... Delaware
		09 ... District of Columbia
		10 ... Florida
		11 ... Georgia
		12 ... Hawaii
		13 ... Idaho
		14 ... Illinois
		15 ... Indiana
		16 ... Iowa
		17 ... Kansas
		18 ... Kentucky
		19 ... Louisiana
		20 ... Maine
		21 ... Maryland
		22 ... Massachusetts
		23 ... Michigan

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		24 ... Minnesota
		25 ... Mississippi
		26 ... Missouri
		27 ... Montana
		28 ... Nebraska
		29 ... Nevada
		30 ... New Hampshire
		31 ... New Jersey
		32 ... New Mexico
		33 ... New York
		34 ... New York City
		35 ... North Carolina
		36 ... North Dakota
		37 ... Ohio
		38 ... Oklahoma
		39 ... Oregon
		40 ... Pennsylvania
		41 ... Rhode Island
		42 ... South Carolina
		43 ... South Dakota
		44 ... Tennessee
		45 ... Texas
		46 ... Utah
		47 ... Vermont
		48 ... Virginia
		49 ... Washington
		50 ... West Virginia
		51 ... Wisconsin
		52 ... Wyoming
		53-58,60, ... Foreign Residents
		62,63
		53 ... Puerto Rico
		54 ... Virgin Islands
		55 ... Guam
30-31	2	<u>STRESEXP</u>
		<u>Expanded State of Residence (Cont'd)</u>
		62 ... American Samoa
		63 ... Northern Marianas
		56 ... Canada
		57 ... Cuba
		58 ... Mexico
		60 ... Remainder of the world
		<u>Puerto Rico occurrence</u>
		53 ... Puerto Rico
		01-52,54-58,60,62,63... Foreign residents: Refer

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		to U.S. for specific code structure.
		<u>Virgin Islands occurrence</u>
		54 ...
		01-53,55-58,60,62,63...
		Virgin Islands Foreign residents: Refer to U.S. for specific code structure.
		<u>Guam occurrence</u>
		55 ...
		01-52 ...
		53-54,56-58,60,62,63...
		Guam U.S. resident is also considered a resident of Guam. Foreign residents: Refer to U.S. for specific code structure.
		<u>American Samoa occurrence</u>
		62 ...
		01-52 ...
		53-58,60,63 ...
		American Samoa U.S. resident is also considered a resident of American Samoa Foreign residents: Refer to U.S. for specific code structure.
		<u>Northern Marianas</u>
		63 ...
		01-52 ...
		53-58,60,62 ...
		Northern Marianas U.S. resident is also considered a resident of Northern Marianas. Foreign residents: Refer to U.S. for specific code structure.
32-33	2	<u>STATERES</u> <u>State of Residence</u>
		<u>United States occurrence</u>
		01 ... Alabama
		02 ... Alaska
		03 ... Arizona
		04 ... Arkansas
		05 ... California
		06 ... Colorado
		07 ... Connecticut
32-33	2	<u>STATERES</u> <u>State of Residence (Cont'd)</u>

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
	08	... Delaware
	09	... District of Columbia
	10	... Florida
	11	... Georgia
	12	... Hawaii
	13	... Idaho
	14	... Illinois
	15	... Indiana
	16	... Iowa
	17	... Kansas
	18	... Kentucky
	19	... Louisiana
	20	... Maine
	21	... Maryland
	22	... Massachusetts
	23	... Michigan
	24	... Minnesota
	25	... Mississippi
	26	... Missouri
	27	... Montana
	28	... Nebraska
	29	... Nevada
	30	... New Hampshire
	31	... New Jersey
	32	... New Mexico
	33	... New York
	34	... North Carolina
	35	... North Dakota
	36	... Ohio
	37	... Oklahoma
	38	... Oregon
	39	... Pennsylvania
	40	... Rhode Island
	41	... South Carolina
	42	... South Dakota
	43	... Tennessee
	44	... Texas
	45	... Utah
	46	... Vermont
	47	... Virginia
	48	... Washington
	49	... West Virginia
	50	... Wisconsin
	51	... Wyoming
	52-57,59,61,62	..Foreign Residents
	52	... Puerto Rico

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		53 ... Virgin Islands
		54 ... Guam
		61 ... American Samoa
		62 ... Northern Marianas
		55 ... Canada
		56 ... Cuba
		57 ... Mexico
		59 ... Remainder of the world
32-33	2	<u>STATERES</u> <u>State of Residence (Cont'd)</u>
		<u>Puerto Rico occurrence</u>
		52 ... Puerto Rico
		01-51,53-57,59, ... Foreign Residents: Refer to
		61,62 U.S. for specific code structure.
		<u>Virgin Islands occurrence</u>
		53 ... Virgin Islands
		01-52,54-57,59, ... Foreign Residents: Refer to
		61,62 U.S. for specific code structure.
		<u>Guam occurrence</u>
		54 ... Guam
		01-51 ... U.S. resident is also considered a resident of Guam.
		52-53,55-57,59, ... Foreign Residents: Refer to
		61,62 U.S. for specific code structure.
		<u>American Samoa occurrence</u>
		61 ... American Samoa
		01-51 ... U.S. resident is also considered a resident of American Samoa
		52-57,59,62 ... Foreign Residents: Refer to
		U.S. for specific code structure.
		<u>Northern Marianas</u>
		62 ... Northern Marianas
		01-51 ... U.S resident is also considered a resident of Northern Marianas.
		52-57,59,61 ... Foreign Residents: Refer to
		U.S. for specific code

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
--------------------------------	-----------------------------	------------------------------

structure.

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
34-36	3	<p><u>CNTYRES</u> <u>County of Residence</u></p> <p>A complete list of counties is shown in the Geographic Code Outline further back in this document.</p> <p>001-nnn ... Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State and identify each county with a population of 100,000 or more in 1990. (Note: To uniquely identify a county, both the State and county codes must be used.)</p> <p>999 ... County of less than 100,000 population</p> <p>ZZZ ... Foreign Residents</p>
37-39	3	<p><u>CITYRES</u> <u>City of Residence</u></p> <p>A complete list of cities is shown in the Geographic Code Outline further back in this document.</p> <p>001-nnn ... Cities are numbered alphabetically within each State and identify each city with a population of 100,000 or more in 1990. (Note: To uniquely identify a city, both the State and city codes must be used. State, county and city codes may also be used.)</p> <p>999 ... Balance of county</p> <p>ZZZ ... Foreign residents</p>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>																											
40	1	<p><u>CITRSPOP</u> <u>Population Size of City of Residence</u></p> <p>Based on the results of the 1990 census</p> <table border="0"> <tr><td>0</td><td>...</td><td>Place of 1,000,000 or more</td></tr> <tr><td>1</td><td>...</td><td>Place of 500,000 to 1,000,000</td></tr> <tr><td>2</td><td>...</td><td>Place of 250,000 to 500,000</td></tr> <tr><td>3</td><td>...</td><td>Place of 100,000 to 250,000</td></tr> <tr><td>9</td><td>...</td><td>All other areas in the U.S.</td></tr> <tr><td>Z</td><td>...</td><td>Foreign residents</td></tr> </table>	0	...	Place of 1,000,000 or more	1	...	Place of 500,000 to 1,000,000	2	...	Place of 250,000 to 500,000	3	...	Place of 100,000 to 250,000	9	...	All other areas in the U.S.	Z	...	Foreign residents									
0	...	Place of 1,000,000 or more																											
1	...	Place of 500,000 to 1,000,000																											
2	...	Place of 250,000 to 500,000																											
3	...	Place of 100,000 to 250,000																											
9	...	All other areas in the U.S.																											
Z	...	Foreign residents																											
41	1	<p><u>METRORES</u> <u>Metropolitan - Nonmetropolitan County of Residence</u></p> <p><u>NOTE:</u> VIRGIN ISLANDS, GUAM, NORTHERN MARIANAS AND AMERICAN SAMOA DO NOT HAVE ANY METROPOLITAN AREAS</p> <table border="0"> <tr><td>1</td><td>...</td><td>Metropolitan county</td></tr> <tr><td>2</td><td>...</td><td>Nonmetropolitan county</td></tr> <tr><td>Z</td><td>...</td><td>Foreign residents</td></tr> </table>	1	...	Metropolitan county	2	...	Nonmetropolitan county	Z	...	Foreign residents																		
1	...	Metropolitan county																											
2	...	Nonmetropolitan county																											
Z	...	Foreign residents																											
42-57	16	<p><u>FIPSRES</u> <u>Federal Information Processing Standards (FIPS) Geographic Codes (Residence)</u></p> <p>Refer to the Geographic Code Outline further back in this document for a detailed list of areas and codes. For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications. Some Geographic Codes have changed to reflect the results of the 1990 Census.</p>																											
42-43	2	<p><u>STRESFIP</u> <u>State of Residence (FIPS)</u></p> <table border="0"> <tr><td>00</td><td>...</td><td>Foreign residents</td></tr> <tr><td>01</td><td>...</td><td>Alabama</td></tr> <tr><td>02</td><td>...</td><td>Alaska</td></tr> <tr><td>04</td><td>...</td><td>Arizona</td></tr> <tr><td>05</td><td>...</td><td>Arkansas</td></tr> <tr><td>06</td><td>...</td><td>California</td></tr> <tr><td>08</td><td>...</td><td>Colorado</td></tr> <tr><td>09</td><td>...</td><td>Connecticut</td></tr> <tr><td>10</td><td>...</td><td>Delaware</td></tr> </table>	00	...	Foreign residents	01	...	Alabama	02	...	Alaska	04	...	Arizona	05	...	Arkansas	06	...	California	08	...	Colorado	09	...	Connecticut	10	...	Delaware
00	...	Foreign residents																											
01	...	Alabama																											
02	...	Alaska																											
04	...	Arizona																											
05	...	Arkansas																											
06	...	California																											
08	...	Colorado																											
09	...	Connecticut																											
10	...	Delaware																											

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		11 ... District of Columbia
		12 ... Florida
		13 ... Georgia
		15 ... Hawaii
		16 ... Idaho
		17 ... Illinois
		18 ... Indiana
		19 ... Iowa
		20 ... Kansas
		21 ... Kentucky
		22 ... Louisiana

42-43

2

STRESFIP

State of Residence (FIPS) (Cont'd)

23	...	Maine
24	...	Maryland
25	...	Massachusetts
26	...	Michigan
27	...	Minnesota
28	...	Mississippi
29	...	Missouri
30	...	Montana
31	...	Nebraska
32	...	Nevada
33	...	New Hampshire
34	...	New Jersey
35	...	New Mexico
36	...	New York
37	...	North Carolina
38	...	North Dakota
39	...	Ohio
40	...	Oklahoma
41	...	Oregon
42	...	Pennsylvania
44	...	Rhode Island
45	...	South Carolina
46	...	South Dakota
47	...	Tennessee
48	...	Texas
49	...	Utah
50	...	Vermont
51	...	Virginia
53	...	Washington
54	...	West Virginia
55	...	Wisconsin
56	...	Wyoming

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		<u>Puerto Rico occurrence</u>
		00-56,60,66,78,69 ... Foreign Residents: Refer to U.S. for specific code structure
		72 ... Puerto Rico
		<u>Virgin Islands occurrence</u>
		00-56,60,66,72,69 ... Foreign Residents: Refer to U.S. for specific code structure
		78 ... Virgin Islands
		<u>Guam occurrence</u>
		00,60,72,78,69 ... Foreign Residents: Refer to U.S. for specific code structure
		01-56 ... U.S. Resident is also considered a resident of Guam. Refer to U.S. for specific code structure
		66 ... Guam
42-43	2	<u>STRESFIP</u> <u>State of Residence (FIPS) (Cont'd)</u>
		<u>American Samoa occurrence</u>
		00,66,72,78,69 ... Foreign Residents: Refer to U.S. for specific code structure
		01-56 ... U.S. Resident is also considered a resident of American Samoa. Refer to specific code structure
		60 ... American Samoa
		<u>Northern Marianas</u>
		00,60,66,72,78 ... Foreign Residents: Refer to U.S. for specific code structure.
		01-56 ... U.S. Resident is also considered a resident of Northern Marianas. Refer to Specific code structure.
		69 ... Northern Marianas
44-46	3	<u>CNTYRFIP</u> <u>County of Residence (FIPS)</u>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		001-nnn ... Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State. (Note: To uniquely identify a county, both the State and county codes must be used.) 999 ... County of less than 100,000 population 000 ... Foreign residents
47-51	5	<p><u>PLACEFIP</u> <u>Place (City) of Residence</u></p> <p>A complete list of cities is shown in the Geographic code outline further back in this document. Effective with the 1994 data year, the FIPS place code has been added to the Natality record. It identifies each city of 100,000 population or more in 1990.</p> 00000 ...Foreign residents 00001- nnnnn ... Code range 99999 ... Balance of county; or city of less than 100,000 population
52-53	2	<p><u>CMSA</u> <u>CMSA of Residence (FIPS)</u></p> <p>Consolidated Metropolitan Statistical Areas are groupings of certain Primary Metropolitan Statistical Areas and are defined by the U.S. Office of Management and Budget (OMB) as of June 30, 1990.</p>
52-53	2	<p><u>CMSA</u> <u>CMSA of Residence (FIPS) (Cont'd)</u></p> <p><u>All AREAS</u> 00 ... Not a CMSA</p> <p><u>United States occurrence</u></p> 07 ... Boston-Worcester-Lawrence, MA-NH-ME CT, CMSA 14 ... Chicago-Gary-Kenosha, IL-IN-WI, CMSA 21 ... Cincinnati-Hamilton, OH-KY-IN, CMSA 28 ... Cleveland-Akron, OH, CMSA 31 ... Dallas-Fort Worth, TX, CMSA

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		34 ... Denver-Boulder-Greeley, CO, CMSA
		35 ... Detroit-Ann Arbor-Flint, MI, CMSA
		42 ... Houston-Galveston-Brazoria, TX, CMSA
		49 ... Los Angeles-Riverside-Orange County, CA, CMSA
		56 ... Miami-Fort Lauderdale, FL, CMSA
		63 ... Milwaukee-Racine, WI, CMSA
		70 ... New York-Northern New Jersey-Long Island, NY-NJ-CT-PA, CMSA
		77 ... Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD, CMSA
		79 ... Portland-Salem, OR-WA, CMSA
		82 ... Sacramento-Yolo, CA, CMSA
		84 ... San Francisco-Oakland-San Jose, CA, CMSA
		91 ... Seattle-Tacoma-Bremerton, WA, CMSA
		97 ... Washington-Baltimore, DC-MD-VA-WV, CMSA

Puerto Rico occurrence

87 ... San Juan-Caguas-Arecibo, PR, CMSA

54-57

4

SMSARFIP

PMSA/MSA of Residence (FIPS)

Primary Metropolitan Statistical Areas and Metropolitan Statistical Areas are those defined by the U.S. Office of Management and Budget as of 1990. For New England, the New England County Metropolitan Areas (NECMA's) are used. Further back in this document is a list of PMSA's, MSA's, NECMA's, and their component counties.

0000 ... Nonmetropolitan counties or foreign residents
 0040-9360 ... Code range
 9999 ... Area of less than 100,000 population

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>																		
58	1	<p><u>CNTRSPOP</u> <u>Population Size of County of Residence</u></p> <p>Based on the results of the 1990 Census.</p> <table border="0"> <tr><td>0</td><td>...</td><td>County of 1,000,000 or more</td></tr> <tr><td>1</td><td>...</td><td>County of 500,000 to 1,000,000</td></tr> <tr><td>2</td><td>...</td><td>County of 250,000 to 500,000</td></tr> <tr><td>3</td><td>...</td><td>County of 100,000 to 250,000</td></tr> <tr><td>9</td><td>...</td><td>County of less than 100,000</td></tr> <tr><td>Z</td><td>...</td><td>Foreign resident</td></tr> </table>	0	...	County of 1,000,000 or more	1	...	County of 500,000 to 1,000,000	2	...	County of 250,000 to 500,000	3	...	County of 100,000 to 250,000	9	...	County of less than 100,000	Z	...	Foreign resident
0	...	County of 1,000,000 or more																		
1	...	County of 500,000 to 1,000,000																		
2	...	County of 250,000 to 500,000																		
3	...	County of 100,000 to 250,000																		
9	...	County of less than 100,000																		
Z	...	Foreign resident																		
59-67	9	<p><u>RIA</u> <u>Reserved Positions</u></p>																		
68	1	<p><u>MAGERFLG</u> <u>Reported Age of Mother Used Flag</u></p> <p>This position is flagged whenever the mother's reported age is used. The reported age is used, if valid, when age could not be computed or when the computed age is outside the 10-54 code range.</p> <table border="0"> <tr><td>Blank</td><td>...</td><td>Reported age is not used</td></tr> <tr><td>1</td><td>...</td><td>Reported age is used</td></tr> </table>	Blank	...	Reported age is not used	1	...	Reported age is used												
Blank	...	Reported age is not used																		
1	...	Reported age is used																		
69	1	<p><u>MAGEIMP</u> <u>Age of Mother Imputation Flag</u></p> <table border="0"> <tr><td>Blank</td><td>...</td><td>Age is not imputed</td></tr> <tr><td>1</td><td>...</td><td>Age is imputed</td></tr> </table>	Blank	...	Age is not imputed	1	...	Age is imputed												
Blank	...	Age is not imputed																		
1	...	Age is imputed																		
70-71	2	<p><u>DMAGE</u> <u>Age of Mother</u></p> <p>This item is: a) computed using dates of birth of mother and of delivery; b) reported; or c) imputed. This is the age item used in NCHS publications.</p> <table border="0"> <tr><td>10-54</td><td>...</td><td>Age in single years</td></tr> </table>	10-54	...	Age in single years															
10-54	...	Age in single years																		
72-73	2	<p><u>MAGE36</u> <u>Age of Mother Recode 36</u></p> <table border="0"> <tr><td>01</td><td>...</td><td>Under 15 years</td></tr> <tr><td>02</td><td>...</td><td>15 years</td></tr> </table>	01	...	Under 15 years	02	...	15 years												
01	...	Under 15 years																		
02	...	15 years																		

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		03 ... 16 years
		04 ... 17 years
		05 ... 18 years
		06 ... 19 years
		07 ... 20 years
		08 ... 21 years
		09 ... 22 years
		10 ... 23 years
		11 ... 24 years
		12 ... 25 years
		13 ... 26 years

72-73

2

MAGE36

Age of Mother Recode 36 (Cont'd)

14	...	27 years
15	...	28 years
16	...	29 years
17	...	30 years
18	...	31 years
19	...	32 years
20	...	33 years
21	...	34 years
22	...	35 years
23	...	36 years
24	...	37 years
25	...	38 years
26	...	39 years
27	...	40 years
28	...	41 years
29	...	42 years
30	...	43 years
31	...	44 years
32	...	45 years
33	...	46 years
34	...	47 years
35	...	48 years
36	...	49 years
37	...	50 years
38	...	51 years
39	...	52 years
40	...	53 years
41	...	54 years

74-75

2

MAGE12

Age of Mother Recode 12

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		01 ... Under 15 years 03 ... 15 years 04 ... 16 years 05 ... 17 years 06 ... 18 years 07 ... 19 years 08 ... 20 - 24 years 09 ... 25 - 29 years 10 ... 30 - 34 years 11 ... 35 - 39 years 12 ... 40 - 44 years 13 ... 45 - 49 years 14 ... 50 - 54 years
76	1	<u>MAGES</u> <u>Age of Mother Recode 8</u> 1 ... Under 15 years 2 ... 15 - 19 years 3 ... 20 - 24 years 4 ... 25 - 29 years 5 ... 30 - 34 years 6 ... 35 - 39 years
76	1	<u>MAGES</u> <u>Age of Mother Recode 8 (Cont'd)</u> 7 ... 40 - 44 years 8 ... 45 - 49 years 9 ... 50 - 54 years
77	1	<u>ORMOTH</u> <u>Hispanic Origin of Mother</u> Hispanic origin is reported by all areas except Puerto Rico, and American Samoa 0 ... Non-Hispanic 1 ... Mexican 2 ... Puerto Rican 3 ... Cuban 4 ... Central or South American 5 ... Other and unknown Hispanic 9 ... Origin unknown or not stated
78	1	<u>ORRACEM</u> <u>Hispanic Origin and Race of Mother Recode</u>

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
		<p>Hispanic origin is reported by all areas except Puerto Rico, and American Samoa</p> <p>1 ... Mexican 2 ... Puerto Rican 3 ... Cuban 4 ... Central or South American 5 ... Other and unknown Hispanic 6 ... Non-Hispanic White 7 ... Non-Hispanic Black 8 ... Non-Hispanic other races 9 ... Origin unknown or not stated</p>
79	1	<p><u>MRACEIMP</u> <u>Race of Mother Imputation Flag</u></p> <p>Blank ... Race is not imputed 1 ... Unknown race is imputed 2 ... All other races, formerly code 09, is imputed</p>
80-81	2	<p><u>MRACE</u> <u>Race of Mother</u></p> <p><u>United States occurrence</u> Beginning with 1992 data, some areas started reporting additional Asian or Pacific Islander codes for race. Codes 18-68 replace old code 08 for these areas. Code 78 replaces old code 08 for all other areas. For consistency with Census race code 09 (all other races) used prior to 1992 has been imputed.</p> <p>01 ... White</p>
80-81	2	<p><u>MRACE</u> <u>Race of Mother (Cont'd)</u></p> <p>02 ... Black 03 ... American Indian (includes Aleuts and Eskimos) 04 ... Chinese 05 ... Japanese 06 ... Hawaiian (includes part-Hawaiian) 07 ... Filipino 18 ... Asian Indian</p>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
	28	... Korean
	38	... Samoan
	48	... Vietnamese
	58	... Guamanian
	68	... Other Asian or Pacific Islander in areas reporting codes 18-58
	78	... Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately
 <u>Puerto Rico occurrence</u>		
	01	... White
	02	... Black
	00	... Other races
 <u>Virgin Islands occurrence</u>		
	01	... White
	02	... Black
	03	... American Indian (includes Aleuts and Eskimos)
	04	... Chinese
	05	... Japanese
	06	... Hawaiian (includes part-Hawaiian)
	07	... Filipino
	08	... Other Asian or Pacific Islander
 <u>Guam occurrence</u>		
	01	... White
	02	... Black
	03	... American Indian (includes Aleuts and Eskimos)
	04	... Chinese
	05	... Japanese
	06	... Hawaiian (includes part-Hawaiian)
	07	... Filipino
	08	... Other Asian or Pacific Islander
	58	... Guamanian
 <u>American Samoa occurrence</u>		
	01	... White
	02	... Black
	03	... American Indian (includes Aleuts and Eskimos)
	04	... Chinese

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
80-81	2	<p><u>MRACE</u> <u>Race of Mother (Cont'd)</u></p> <p>05 ... Japanese 06 ... Hawaiian (includes part-Hawaiian) 07 ... Filipino 08 ... Other Asian or Pacific Islander</p> <p><u>Northern Marianas occurrence</u></p> <p>01 ... White 02 ... Black 03 ... American Indian (includes Aleuts and Eskimos) 04 ... Chinese 05 ... Japanese 06 ... Hawaiian (includes part-Hawaiian) 07 ... Filipino 08 ... Other Asian or Pacific Islander</p>
82	1	<p><u>MRACE3</u> <u>Race of Mother Recode</u></p> <p><u>For All Areas</u></p> <p>1 ... White 2 ... Races other than White or Black 3 ... Black</p>
83-84	2	<p><u>DMEDUC</u> <u>Education of Mother</u></p> <p>Effective with 1992 data, all areas report education.</p> <p>00 ... No formal education 01-08 ... Years of elementary school</p>
83-84	2	<p><u>DMEDUC</u> <u>Education of Mother</u></p> <p>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</p>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		15 ... 3 years of college
		16 ... 4 years of college
		17 ... 5 or more years of college
		99 ... Not stated
85	1	<u>MEDUC6</u> <u>Education of Mother Recode</u>
		1 ... 0 - 8 years
		2 ... 9 - 11 years
		3 ... 12 years
85	1	<u>MEDUC6</u> <u>Education of Mother Recode (Cont'd)</u>
		4 ... 13 - 15 years
		5 ... 16 years and over
		6 ... Not stated
86	1	<u>DMARIMP</u> <u>Marital Status of Mother Imputation Flag</u>
		Blank ... Marital Status is not imputed
		1 ... Marital Status is imputed
87	1	<u>DMAR</u> <u>Marital Status of Mother</u>
		Marital status is not reported by all areas. See reporting flags.
		<u>United States/Virgin Island/Guam/American Samoa/Northern Marianas</u>
		1 ... Married
		2 ... Unmarried
		9 ... Unknown or not stated
		<u>Puerto Rico</u>
		1 ... Married
		2 ... Unmarried parents living together
		3 ... Unmarried parents not living together
		9 ... Unknown or not stated
88-89	2	<u>MPLBIR</u> <u>Place of Birth of Mother</u>
		01 ... Alabama

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		02 ... Alaska
		03 ... Arizona
		04 ... Arkansas
		05 ... California
		06 ... Colorado
		07 ... Connecticut
		08 ... Delaware
		09 ... District of Columbia
		10 ... Florida
		11 ... Georgia
		12 ... Hawaii
		13 ... Idaho
		14 ... Illinois
		15 ... Indiana
		16 ... Iowa
		17 ... Kansas
		18 ... Kentucky
		19 ... Louisiana
		20 ... Maine
		21 ... Maryland
		22 ... Massachusetts
		23 ... Michigan
		24 ... Minnesota

88-89

2

MPLBIR

Place of Birth of Mother (Cont'd)

		25 ... Mississippi
		26 ... Missouri
		27 ... Montana
		28 ... Nebraska
		29 ... Nevada
		30 ... New Hampshire
		31 ... New Jersey
		32 ... New Mexico
		33 ... New York
		34 ... North Carolina
		35 ... North Dakota
		36 ... Ohio
		37 ... Oklahoma
		38 ... Oregon
		39 ... Pennsylvania
		40 ... Rhode Island
		41 ... South Carolina
		42 ... South Dakota
		43 ... Tennessee
		44 ... Texas

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		45 ... Utah
		46 ... Vermont
		47 ... Virginia
		48 ... Washington
		49 ... West Virginia
		50 ... Wisconsin
		51 ... Wyoming
		52 ... Puerto Rico
		53 ... Virgin Islands
		54 ... Guam
		61 ... American Samoa
		62 ... Northern Marianas
		55 ... Canada
		56 ... Cuba
		57 ... Mexico
		59 ... Remainder of the World
		99 ... Not classifiable
90	1	<u>MPLBIRR</u> <u>Place of Birth of Mother Recode</u>
		1 ... Native born
		2 ... Foreign born
		3 ... Unknown or not stated
91-92	2	<u>DMAGERPT</u> <u>Reported Age of Mother</u>
		10-54 ... Age in single years
		99 ... Unknown or not stated

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
93	1	<p><u>ADEQUACY</u> <u>Adequacy Of Care Recode (Kessner Index)</u></p> <p>This recode is based on a modified Kessner criterion. Month Prenatal Care Began, Number of Prenatal Visits, and Gestation are the items used to generate this recode.</p> <p>1 ... Adequate 2 ... Intermediate 3 ... Inadequate 4 ... Unknown</p>
94-95	2	<p><u>NLBNI</u> <u>Number of Live Births, Now Living</u></p> <p>Does not include this birth or adoptions.</p> <p>00-30 ... Stated number of births 99 ... Unknown or not stated</p>
96-97	2	<p><u>NLBND</u> <u>Number of Live Births, Now Dead</u></p> <p>Does not include this birth or adoptions.</p> <p>00-30 ... Stated number of births 99 ... Unknown or not stated</p>
98-99	2	<p><u>NOTERM</u> <u>Number of Other Terminations</u></p> <p>Includes spontaneous and induced at any time after conception.</p> <p>00-30 ... Stated number of other terminations 99 ... Unknown or not stated</p>
100-101	2	<p><u>DLIVORD</u> <u>Detail Live Birth Order</u></p> <p>Sum of live births now living and now dead plus one. If either item is unknown, this item is made unknown.</p> <p>00-31 ... Number of children born alive to mother</p>

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
		99 ... Unknown
102	1	<u>LIVORD9</u> <u>Live Birth Order Recode</u>
		1 ... First Child
		2 ... Second Child
		3 ... Third Child
		4 ... Fourth Child
		5 ... Fifth Child

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
102	1	<p><u>LIVORD9</u> <u>Live Birth Order Recode (Cont'd)</u></p> <p>6 ... Sixth Child 7 ... Seventh Child 8 ... Eighth Child and over 9 ... Unknown or not stated</p>
103-104	2	<p><u>DTOTORD</u> <u>Detail Total Birth Order</u></p> <p>Sum of live birth order and other terminations. If either item is unknown, this item is made unknown.</p> <p>01-40 ... Total number of live births and other terminations 99 ... Unknown</p>
105	1	<p><u>TOTORD9</u> <u>Total Birth Order Recode</u></p> <p>1 ... First Child 2 ... Second Child 3 ... Third Child 4 ... Fourth Child 5 ... Fifth Child 6 ... Sixth Child 7 ... Seventh Child 8 ... Eighth Child and over 9 ... Unknown or not stated</p>
106-107	2	<p><u>MONPRE</u> <u>Detail Month of Pregnancy Prenatal Care Began</u></p> <p>00 ... No prenatal care 01 ... 1st month 02 ... 2nd month 03 ... 3rd month 04 ... 4th month 05 ... 5th month 06 ... 6th month 07 ... 7th month 08 ... 8th month 09 ... 9th month 99 ... Unknown or not stated</p>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>																																				
108	1	<p><u>MPRE6</u> <u>Month Prenatal Care Began Recode 6</u></p> <table> <tr><td>1</td><td>...</td><td>1st - 2nd month</td></tr> <tr><td>2</td><td>...</td><td>3rd month</td></tr> <tr><td>3</td><td>...</td><td>4th - 6th month</td></tr> <tr><td>4</td><td>...</td><td>7th - 9th month</td></tr> <tr><td>5</td><td>...</td><td>No prenatal care</td></tr> <tr><td>6</td><td>...</td><td>Unknown or not stated</td></tr> </table>	1	...	1st - 2nd month	2	...	3rd month	3	...	4th - 6th month	4	...	7th - 9th month	5	...	No prenatal care	6	...	Unknown or not stated																		
1	...	1st - 2nd month																																				
2	...	3rd month																																				
3	...	4th - 6th month																																				
4	...	7th - 9th month																																				
5	...	No prenatal care																																				
6	...	Unknown or not stated																																				
109	1	<p><u>MPRE5</u> <u>Month Prenatal Care Began Recode 5</u></p> <table> <tr><td>1</td><td>...</td><td>1st Trimester (1st-3rd month)</td></tr> <tr><td>2</td><td>...</td><td>2nd Trimester (4th-6th month)</td></tr> <tr><td>3</td><td>...</td><td>3rd Trimester (7th-9th month)</td></tr> <tr><td>4</td><td>...</td><td>No Prenatal Care</td></tr> <tr><td>5</td><td>...</td><td>Unknown or not stated</td></tr> </table>	1	...	1st Trimester (1st-3rd month)	2	...	2nd Trimester (4th-6th month)	3	...	3rd Trimester (7th-9th month)	4	...	No Prenatal Care	5	...	Unknown or not stated																					
1	...	1st Trimester (1st-3rd month)																																				
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3	...	3rd Trimester (7th-9th month)																																				
4	...	No Prenatal Care																																				
5	...	Unknown or not stated																																				
110-111	2	<p><u>NPREVIS</u> <u>Total Number of Prenatal Visits</u></p> <table> <tr><td>00</td><td>...</td><td>No prenatal visits</td></tr> <tr><td>01-48</td><td>...</td><td>Stated number of visits</td></tr> <tr><td>49</td><td>...</td><td>49 or more visits</td></tr> <tr><td>99</td><td>...</td><td>Unknown or not stated</td></tr> </table>	00	...	No prenatal visits	01-48	...	Stated number of visits	49	...	49 or more visits	99	...	Unknown or not stated																								
00	...	No prenatal visits																																				
01-48	...	Stated number of visits																																				
49	...	49 or more visits																																				
99	...	Unknown or not stated																																				
112-113	2	<p><u>NPREV12</u> <u>Number of Prenatal Visits Recode</u></p> <table> <tr><td>01</td><td>...</td><td>No visits</td></tr> <tr><td>02</td><td>...</td><td>1 - 2 visits</td></tr> <tr><td>03</td><td>...</td><td>3 - 4 visits</td></tr> <tr><td>04</td><td>...</td><td>5 - 6 visits</td></tr> <tr><td>05</td><td>...</td><td>7 - 8 visits</td></tr> <tr><td>06</td><td>...</td><td>9 - 10 visits</td></tr> <tr><td>07</td><td>...</td><td>11 - 12 visits</td></tr> <tr><td>08</td><td>...</td><td>13 - 14 visits</td></tr> <tr><td>09</td><td>...</td><td>15 - 16 visits</td></tr> <tr><td>10</td><td>...</td><td>17 - 18 visits</td></tr> <tr><td>11</td><td>...</td><td>19 visits or more</td></tr> <tr><td>12</td><td>...</td><td>Unknown or not stated number of visits</td></tr> </table>	01	...	No visits	02	...	1 - 2 visits	03	...	3 - 4 visits	04	...	5 - 6 visits	05	...	7 - 8 visits	06	...	9 - 10 visits	07	...	11 - 12 visits	08	...	13 - 14 visits	09	...	15 - 16 visits	10	...	17 - 18 visits	11	...	19 visits or more	12	...	Unknown or not stated number of visits
01	...	No visits																																				
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10	...	17 - 18 visits																																				
11	...	19 visits or more																																				
12	...	Unknown or not stated number of visits																																				

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
114-121	8	<u>LMPDATE</u> <u>Date Last Normal Menses Began</u>
114-115	2	<u>LMPMON</u> <u>Month Last Normal Menses Began</u>
		01 ... January
		02 ... February
		03 ... March
		04 ... April
		05 ... May
		06 ... June
		07 ... July
		08 ... August
		09 ... September
		10 ... October
		11 ... November
		12 ... December
		99 ... Unknown or not stated month of LMP
116-117	2	<u>LMPDAY</u> <u>Day Last Normal Menses Began</u>
		01-31 ... As applicable to month of LMP
		99 ... Unknown or not stated day of LMP
118-121	4	<u>LMPYR</u> <u>Year Last Normal Menses Began</u>
		1998 ... 1998
		1999 ... 1999
		9999 ... Unknown or not stated year of LMP
122-132	11	<u>R8</u> Item was dropped in 1994
		<u>R8A</u> <u>Reserved Position</u>
133-137	5	<u>Imputed Birthweight</u>

Created beginning with 1995 data

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
133	1	<p><u>BWIMP</u> <u>Imputed Birthweight Flag</u></p> <p>Blank ... Birthweight is not imputed 1 ... Birthweight is imputed</p>
134-137	4	<p><u>Imputed Birthweight</u></p> <p>0227-8165 ... Number of grams</p>
138-152	15	<p><u>R2</u> <u>Reserved Positions</u></p>
153	1	<p><u>FAGERFLG</u> <u>Reported Age of Father Used Flag</u></p> <p>This position is flagged whenever the father's reported age in years is used. The reported age is used, if valid, when age derived from date of birth is not available or when it is less than 10.</p> <p>Blank ... Reported age is not used 1 ... Reported age is used</p>
154-155	2	<p><u>DFAGE</u> <u>Age of Father</u></p> <p>This item is either computed from date of birth of father and of child or is the reported age. This is the age item used in NCHS publications.</p> <p>10-98 ... Age in single years 99 ... Unknown or not stated</p>
156-157	2	<p><u>FAGE11</u> <u>Age of Father Recode</u></p> <p>01 ... Under 15 years 02 ... 15 - 19 years 03 ... 20 - 24 years 04 ... 25 - 29 years 05 ... 30 - 34 years 06 ... 35 - 39 years 07 ... 40 - 44 years 08 ... 45 - 49 years 09 ... 50 - 54 years 10 ... 55 - 98 years</p>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>																					
		11 ... Not stated																					
158	1	<p><u>ORFATH</u> <u>Hispanic Origin of Father</u></p> <p>Hispanic origin of father is reported by all areas except Puerto Rico, Northern Marianas and American Samoa</p> <table> <tr><td>0</td><td>...</td><td>Non - Hispanic</td></tr> <tr><td>1</td><td>...</td><td>Mexican</td></tr> <tr><td>2</td><td>...</td><td>Puerto Rican</td></tr> <tr><td>3</td><td>...</td><td>Cuban</td></tr> <tr><td>4</td><td>...</td><td>Central or South American</td></tr> <tr><td>5</td><td>...</td><td>Other and unknown Hispanic</td></tr> <tr><td>9</td><td>...</td><td>Origin unknown or not stated</td></tr> </table>	0	...	Non - Hispanic	1	...	Mexican	2	...	Puerto Rican	3	...	Cuban	4	...	Central or South American	5	...	Other and unknown Hispanic	9	...	Origin unknown or not stated
0	...	Non - Hispanic																					
1	...	Mexican																					
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4	...	Central or South American																					
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1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>																																										
159	1	<p><u>ORRACEF</u> <u>Hispanic Origin and Race of Father Recode</u></p> <p>Hispanic origin of father is reported by all areas except Puerto Rico, Northern Marianas and American Samoa.</p> <table border="0"> <tr><td>1</td><td>...</td><td>Mexican</td></tr> <tr><td>2</td><td>...</td><td>Puerto Rican</td></tr> <tr><td>3</td><td>...</td><td>Cuban</td></tr> <tr><td>4</td><td>...</td><td>Central or South American</td></tr> <tr><td>5</td><td>...</td><td>Other and unknown Hispanic</td></tr> <tr><td>6</td><td>...</td><td>Non - Hispanic White</td></tr> <tr><td>7</td><td>...</td><td>Non - Hispanic Black</td></tr> <tr><td>8</td><td>...</td><td>Non - Hispanic other or unknown race</td></tr> <tr><td>9</td><td>...</td><td>Origin unknown or not stated</td></tr> </table>	1	...	Mexican	2	...	Puerto Rican	3	...	Cuban	4	...	Central or South American	5	...	Other and unknown Hispanic	6	...	Non - Hispanic White	7	...	Non - Hispanic Black	8	...	Non - Hispanic other or unknown race	9	...	Origin unknown or not stated															
1	...	Mexican																																										
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3	...	Cuban																																										
4	...	Central or South American																																										
5	...	Other and unknown Hispanic																																										
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7	...	Non - Hispanic Black																																										
8	...	Non - Hispanic other or unknown race																																										
9	...	Origin unknown or not stated																																										
160-161	2	<p><u>FRACE</u> <u>Race of Father</u> <u>United States occurrence</u></p> <p>Beginning with 1992 data, some areas started reporting additional Asian or Pacific Islander codes for race. Codes 18-68 replace old code 08 for these areas. Code 78 replaces old code 08 for all other areas. For consistency with Census race code 09 (all other races) used prior to 1992 has been Changed to 99.</p> <table border="0"> <tr><td>01</td><td>...</td><td>White</td></tr> <tr><td>02</td><td>...</td><td>Black</td></tr> <tr><td>03</td><td>...</td><td>American Indian (includes Aleuts and Eskimos)</td></tr> <tr><td>04</td><td>...</td><td>Chinese</td></tr> <tr><td>05</td><td>...</td><td>Japanese</td></tr> <tr><td>06</td><td>...</td><td>Hawaiian (includes part-Hawaiian)</td></tr> <tr><td>07</td><td>...</td><td>Filipino</td></tr> <tr><td>18</td><td>...</td><td>Asian Indian</td></tr> <tr><td>28</td><td>...</td><td>Korean</td></tr> <tr><td>38</td><td>...</td><td>Samoan</td></tr> <tr><td>48</td><td>...</td><td>Vietnamese</td></tr> <tr><td>58</td><td>...</td><td>Guamanian</td></tr> <tr><td>68</td><td>...</td><td>Other Asian or Pacific Islander in areas reporting codes 18-58</td></tr> <tr><td>78</td><td>...</td><td>Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately</td></tr> </table>	01	...	White	02	...	Black	03	...	American Indian (includes Aleuts and Eskimos)	04	...	Chinese	05	...	Japanese	06	...	Hawaiian (includes part-Hawaiian)	07	...	Filipino	18	...	Asian Indian	28	...	Korean	38	...	Samoan	48	...	Vietnamese	58	...	Guamanian	68	...	Other Asian or Pacific Islander in areas reporting codes 18-58	78	...	Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately
01	...	White																																										
02	...	Black																																										
03	...	American Indian (includes Aleuts and Eskimos)																																										
04	...	Chinese																																										
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06	...	Hawaiian (includes part-Hawaiian)																																										
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68	...	Other Asian or Pacific Islander in areas reporting codes 18-58																																										
78	...	Combined other Asian or Pacific Islander, includes codes 18-68 for areas that do not report them separately																																										

1999
Detail Natality Record

**Tape
Location**

**Field
Size**

Item and Code Outline

99 ... Unknown or Not Stated

Puerto Rico occurrence

01 ... White
02 ... Black
00 ... Other races
99 ... Unknown or not stated

Virgin Islands occurrence

01 ... White
02 ... Black

160-161

2

FRACE

Race of Father (Cont'd)

03 ... American Indian (includes Aleuts and
 Eskimos)
04 ... Chinese
05 ... Japanese
06 ... Hawaiian (includes part-Hawaiian)
07 ... Filipino
08 ... Other Asian or Pacific Islander
99 ... Unknown or Not Stated

Guam occurrence

01 ... White
02 ... Black
03 ... American Indian (includes Aleuts and
 Eskimos)
04 ... Chinese
05 ... Japanese
06 ... Hawaiian (includes part-Hawaiian)
07 ... Filipino
08 ... Other Asian or Pacific Islander
58 ... Guamanian
99 ... Unknown or Not Stated

American Samoa occurrence

01 ... White
02 ... Black
03 ... American Indian (includes Aleuts and
 Eskimos)
04 ... Chinese
05 ... Japanese
06 ... Hawaiian (includes part-Hawaiian)
07 ... Filipino
08 ... Other Asian or Pacific Islander

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		99 ... Unknown or Not Stated
		<u>Northern Marianas occurrence</u>
		01 ... White
		02 ... Black
		03 ... American Indian (includes Aleuts and Eskimos)
		04 ... Chinese
		05 ... Japanese
		06 ... Hawaiian (includes part-Hawaiian)
		07 ... Filipino
		08 ... Other Asian or Pacific Islander
162	1	<u>FRACE4</u>
		<u>Race of Father Recode</u>
		1 ... White
		2 ... Races other than White, Black, or unknown
		3 ... Black
		4 ... Unknown or not stated

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		11 ... November 12 ... December
174-175	2	<u>RC</u> <u>Reserved Positions</u>
176-179	4	<u>BIRYR</u> <u>Year of Birth</u> 1999 ... 1999
180	1	<u>WEEKDAY</u> <u>Day of Week Child Born</u> 1 ... Sunday 2 ... Monday 3 ... Tuesday 4 ... Wednesday 5 ... Thursday 6 ... Friday 7 ... Saturday
181	1	<u>GESTESTM</u> <u>Clinical Estimate of Gestation Used Flag</u> This position is flagged whenever the clinical estimate of gestation is used. It is used when gestation could not be computed or when the computed gestation is outside the 17-47 code range. Blank ... Clinical Estimate is not used 1 ... Clinical Estimate is used
182	1	<u>GESTIMP</u> <u>Gestation Imputation Flag</u> Blank ... Gestation is not imputed 1 ... Gestation is imputed
183-184	2	<u>DGESTAT</u> <u>Gestation - Detail in Weeks</u> This item is: a) computed using dates of birth of child and last normal menses; b) imputed from LMP date; c) the clinical estimate; or d) unknown when there is insufficient data to impute or no valid

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
		clinical estimate. This is the gestation item used in NCHS publications.
		17-47 ... 17th through 47th week of gestation
		99 ... Unknown
185-186	2	<u>GESTAT10</u> <u>Gestation Recode 10</u>
		01 ... Under 20 weeks
		02 ... 20 - 27 weeks
		03 ... 28 - 31 weeks
		04 ... 32 - 35 weeks
		05 ... 36 weeks
		06 ... 37 - 39 weeks
		07 ... 40 weeks
		08 ... 41 weeks
		09 ... 42 weeks and over
		10 ... Not stated

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
187	1	<u>GESTAT3</u> <u>Gestation Recode 3</u> 1 ... Under 37 weeks 2 ... 37 weeks and over 3 ... Not stated
188	1	<u>CSEXIMP</u> <u>Sex Imputation Flag</u> Blank ... Sex is not imputed 1 ... Sex is imputed
189	1	<u>CSEX</u> <u>Sex</u> 1 ... Male 2 ... Female
190-192	3	<u>RD</u> <u>Reserved Positions</u>
193-196	4	<u>DBIRWT</u> <u>Birth Weight - Detail in Grams</u> 0227-8165 ... Number of grams 9999 ... Not stated birth weight
197-198	2	<u>BIRWT12</u> <u>Birth Weight Recode 12</u> 01 ... 499 grams or less 02 ... 500 - 999 grams 03 ... 1000 - 1499 grams 04 ... 1500 - 1999 grams 05 ... 2000 - 2499 grams 06 ... 2500 - 2999 grams 07 ... 3000 - 3499 grams 08 ... 3500 - 3999 grams 09 ... 4000 - 4499 grams 10 ... 4500 - 4999 grams 11 ... 5000 - 8165 grams 12 ... Not stated
199	1	<u>BIRWT4</u> <u>Birth Weight Recode 4</u>

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
		1 ... 1499 grams or less
		2 ... 1500 - 2499 grams
		3 ... 2500 - grams or more
		4 ... Unknown or not stated
200	1	<u>PLURIMP</u> <u>Plurality Imputation Flag</u>
		Blank ... Plurality is not imputed
		1 ... Plurality is imputed

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
201	1	<p><u>DPLURAL</u> <u>Plurality</u></p> <p>1 ... Single 2 ... Twin 3 ... Triplet 4 ... Quadruplet 5 ... Quintuplet or higher</p>
202-204	3	<p><u>R6</u> <u>Reserved positions</u></p> <p>Item was dropped in 1995</p>
205-206	2	<p><u>FMAPS</u> <u>Five Minute Apgar Score</u></p> <p>Apgar Score is not reported by all areas. See reporting flags.</p> <p>00-10 ... A score of 0-10 99 ... Unknown or not stated</p>
207	1	<p><u>FMAPSR</u> <u>Five Minute Apgar Score Recode</u></p> <p>Apgar Score is not reported by all areas. See reporting flags.</p> <p>1 ... A score of 0-3 2 ... A score of 4-6 3 ... A score of 7-8 4 ... A score of 9-10 5 ... Not stated</p>
208-209	2	<p><u>CLINGEST</u> <u>Clinical Estimate of Gestation</u></p> <p>Clinical estimate is not reported by all areas. See reporting flags.</p> <p>17-47 ... Estimated gestation in weeks 99 ... Unknown or not stated</p>
210-216	7	<p><u>R4</u> <u>Reserved Positions</u></p>

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
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1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>												
217-306	90	<p><u>MEDINFO</u> <u>Medical and Health Data</u></p> <p>Some States do not report an entire item while other States do not report all of the categories within an item.</p> <p>If an item is not reported, it is indicated by code zero in the appropriate reporting flag.</p> <p>If a category within an item is not reported it is indicated by code 8 in the position for that category.</p>												
217-222	6	<p><u>DELMETH</u> <u>Method of Delivery</u></p> <p>Each method is assigned a separate position, and the code structure for each method (position) is:</p> <table style="margin-left: 40px;"> <tr> <td>1</td> <td>...</td> <td>The method was used</td> </tr> <tr> <td>2</td> <td>...</td> <td>The method was not used</td> </tr> <tr> <td>8</td> <td>...</td> <td>Method not on certificate</td> </tr> <tr> <td>9</td> <td>...</td> <td>Method unknown or not stated</td> </tr> </table>	1	...	The method was used	2	...	The method was not used	8	...	Method not on certificate	9	...	Method unknown or not stated
1	...	The method was used												
2	...	The method was not used												
8	...	Method not on certificate												
9	...	Method unknown or not stated												
217	1	<p><u>VAGINAL</u> <u>Vaginal</u></p>												
218	1	<p><u>VBAC</u> <u>Vaginal birth after previous C-section</u></p>												
219	1	<p><u>PRIMAC</u> <u>Primary C -section</u></p>												
220	1	<p><u>REPEAC</u> <u>Repeat C -section</u></p>												
221	1	<p><u>FORCEP</u> <u>Forceps</u></p>												
222	1	<p><u>VACUUM</u> <u>Vacuum</u></p>												
223	1	<p><u>R5</u> <u>Reserved Position</u></p>												
224	1	<p><u>DELMETH5</u> <u>Method of Delivery Recode</u></p>												

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
225-241	17	<p><u>MEDRISK</u> <u>Medical Risk Factors</u></p> <p>Each risk factor is assigned a separate position, and the code structure for each risk factor (position) is:</p> <p>1 ... Factor reported 2 ... Factor not reported 8 ... Factor not on certificate 9 ... Factor not classifiable</p>
225	1	<p><u>ANEMIA</u> <u>Anemia (Hct.<30/Hgb.<10)</u></p>
226	1	<p><u>CARDIAC</u> <u>Cardiac disease</u></p>
227	1	<p><u>LUNG</u> <u>Acute or chronic lung disease</u></p>
228	1	<p><u>DIABETES</u> <u>Diabetes</u></p>
229	1	<p><u>HERPES</u> <u>Genital herpes</u></p>
230	1	<p><u>HYDRA</u> <u>Hydramnios/Oligohydramnios</u></p>
231	1	<p><u>HEMO</u> <u>Hemoglobinopathy</u></p>
232	1	<p><u>CHYPER</u> <u>Hypertension, chronic</u></p>
233	1	<p><u>PHYPER</u> <u>Hypertension, pregnancy-associated</u></p>
234	1	<p><u>ECLAMP</u> <u>Eclampsia</u></p>
235	1	<p><u>INCERVIX</u> <u>Incompetent cervix</u></p>
236	1	<p><u>PRE4000</u> <u>Previous infant 4000+ grams</u></p>

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
237	1	<u>PRETERM</u> <u>Previous preterm or small-for-gestational-age infant</u>
238	1	<u>RENAL</u> <u>Renal disease</u>
239	1	<u>RH</u> <u>Rh sensitization</u>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
240	1	<u>UTERINE</u> <u>Uterine bleeding</u>
241	1	<u>OTHERMR</u> <u>Other Medical Risk Factors</u>
242-252	11	<u>OTHERRSK</u> <u>Other Risk Factors for this Pregnancy</u>
242-245	4	<u>TOBACRSK</u> <u>Tobacco Risks</u>
242	1	<u>TOBACCO</u> <u>Tobacco Use During Pregnancy</u>
		1 ... Yes
		2 ... No
		9 ... Unknown or not stated
243-244	2	<u>CIGAR</u> <u>Average Number of Cigarettes Per Day</u>
		00-97 ... As stated
		98 ... 98 or more cigarettes per day
		99 ... Unknown or not stated
245	1	<u>CIGAR6</u> <u>Average Number of Cigarettes Per Day Recode</u>
		0 ... Nonsmoker
		1 ... 1 - 5 cigarettes per day
		2 ... 6 - 10 cigarettes per day
		3 ... 11 - 20 cigarettes per day
		4 ... 21 - 40 cigarettes per day
		5 ... 41 or more cigarettes per day
		6 ... Unknown or not stated
246-249	4	<u>ALCOHRSK</u> <u>Alcohol</u>
246	1	<u>ALCOHOL</u> <u>Alcohol Use During Pregnancy</u>
		1 ... Yes
		2 ... No
		9 ... Unknown or not stated

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
247-249	2	<u>DRINK</u> <u>Average Number of Drinks Per Week</u> 00-97 ... As stated 98 ... 98 or more drinks per week 99 ... Unknown or not stated

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
249	1	<u>DRINK5</u> <u>Average Number of Drinks Per Week Recode</u> 0 ... Non drinker 1 ... 1 drink per week 2 ... 2 drinks per week 3 ... 3 - 4 drinks per week 4 ... 5 or more drinks per week 5 ... Unknown or not stated
250-252	3	<u>WTGANRSK</u> <u>Weight Gain During Pregnancy</u>
250-251	2	<u>WTGAIN</u> <u>Weight Gain</u> 00-97 ... Stated number of pounds 98 ... 98 pounds or more 99 ... Unknown or not stated
252	1	<u>WTGAIN9</u> <u>Weight Gain Recode</u> 1 ... Less than 16 pounds 2 ... 16 - 20 pounds 3 ... 21 - 25 pounds 4 ... 26 - 30 pounds 5 ... 31 - 35 pounds 6 ... 36 - 40 pounds 7 ... 41 - 45 pounds 8 ... 46 or more pounds 9 ... Unknown or not stated
253-259	7	<u>OBSTETRC</u> <u>Obstetric Procedures</u> Each procedure is assigned a separate position, and the code structure for each procedure (position) is: 1 ... Procedure reported 2 ... Procedure not reported 8 ... Procedure not on certificate 9 ... Procedure not classifiable

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
253	1	<u>AMNIO</u> <u>Amniocentesis</u>
254	1	<u>MONITOR</u> <u>Electronic fetal monitoring</u>
255	1	<u>INDUCT</u> <u>Induction of labor</u>
256	1	<u>STIMULA</u> <u>Stimulation of labor</u>
257	1	<u>TOCOL</u> <u>Tocolysis</u>
258	1	<u>ULTRAS</u> <u>Ultrasound</u>
259	1	<u>OTHEROB</u> <u>Other Obstetric Procedures</u>
260-275	16	<u>LABOR</u> <u>Complications of Labor and/or Delivery</u> Each complication is assigned a separate position, and the code structure for each complication (position) is: 1 ... Complication reported 2 ... Complication not reported 8 ... Complication not on certificate 9 ... Complication not classifiable
260	1	<u>FEBRILE</u> <u>Febrile (>100 degrees F. or 38 degrees C.)</u>
261	1	<u>MECONIUM</u> <u>Meconium, moderate/heavy</u>
262	1	<u>RUPTURE</u> <u>Premature rupture of membrane (>12 hours)</u>
263	1	<u>ABRUPTIO</u> <u>Abruptio placenta</u>
264	1	<u>PREPLACE</u> <u>Placenta previa</u>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
265	1	<u>EXCEBLD</u> <u>Other excessive bleeding</u>
266	1	<u>SEIZURE</u> <u>Seizures during labor</u>
267	1	<u>PRECIP</u> <u>Precipitous labor (<3 hours)</u>
268	1	<u>PROLONG</u> <u>Prolonged labor (>20 hours)</u>
269	1	<u>DYSFUNC</u> <u>Dysfunctional labor</u>
270	1	<u>BREECH</u> <u>Breech/Malpresentation</u>
271	1	<u>CEPHALO</u> <u>Cephalopelvic disproportion</u>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
272	1	<u>CORD</u> <u>Cord prolapse</u>
273	1	<u>ANESTHE</u> <u>Anesthetic complications</u>
274	1	<u>DISTRESS</u> <u>Fetal distress</u>
275	1	<u>OTHERLB</u> <u>Other Complication of Labor and/or Delivery</u>
276-284	9	<u>NEWBORN</u> <u>Abnormal Conditions of the Newborn</u>

Each condition is assigned a separate position, and the code structure for each condition (position) is:

1	...	Condition reported
2	...	Condition not reported
8	...	Condition not on certificate
9	...	Condition not classifiable

276	1	<u>NANEMIA</u> <u>Anemia (Hct.<39/Hgb.<13)</u>
277	1	<u>INJURY</u> <u>Birth injury</u>
278	1	<u>ALCOSYN</u> <u>Fetal alcohol syndrome</u>
279	1	<u>HYALINE</u> <u>Hyaline membrane disease</u>
280	1	<u>MECONSYN</u> <u>Meconium aspiration syndrome</u>
281	1	<u>VENL30</u> <u>Assisted ventilation, less than 30 minutes</u>
282	1	<u>VEN30M</u> <u>Assisted ventilation, 30 minutes or more</u>
283	1	<u>NSEIZ</u> <u>Seizures</u>

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
284	1	<u>OTHERAB</u> <u>Other Abnormal Conditions of the Newborn</u>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
285-306	22	<p><u>CONGENIT</u> <u>Congenital Anomalies</u></p> <p>Each anomaly is assigned a separate position, and the code structure for each anomaly (position) is:</p> <p>1 ... Anomaly reported 2 ... Anomaly not reported 8 ... Anomaly not on certificate 9 ... Anomaly not classifiable</p>
285	1	<p><u>ANEN</u> <u>Anencephalus</u></p>
286	1	<p><u>SPINA</u> <u>Spina bifida/Meningocele</u></p>
287	1	<p><u>HYDRO</u> <u>Hydrocephalus</u></p>
288	1	<p><u>MICROCE</u> <u>Microcephalus</u></p>
289	1	<p><u>NERVOUS</u> <u>Other central nervous system anomalies</u></p>
290	1	<p><u>HEART</u> <u>Heart malformations</u></p>
291	1	<p><u>CIRCUL</u> <u>Other circulatory/respiratory anomalies</u></p>
292	1	<p><u>RECTAL</u> <u>Rectal atresia/stenosis</u></p>
293	1	<p><u>TRACHEO</u> <u>Tracheo - esophageal fistula/Esophageal atresia</u></p>
294	1	<p><u>OMPHALO</u> <u>Omphalocele/Gastroschisis</u></p>
295	1	<p><u>GASTRO</u> <u>Other gastrointestinal anomalies</u></p>
296	1	<p><u>GENITAL</u> <u>Malformed genitalia</u></p>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
297	1	<u>RENALAGE</u> <u>Renal agenesia</u>
298	1	<u>UROGEN</u> <u>Other urogenital anomalies</u>
299	1	<u>CLEFTLP</u> <u>Cleft lip/palate</u>
300	1	<u>ADACTYLY</u> <u>Polydactyly/Syndactyly/Adactyly</u>
301	1	<u>CLUBFOOT</u> <u>Club foot</u>
302	1	<u>HERNIA</u> <u>Diaphragmatic hernia</u>
303	1	<u>MUSCULO</u> <u>Other musculoskeletal/integumental anomalies</u>
304	1	<u>DOWNS</u> <u>Down's syndrome</u>
305	1	<u>CHROMO</u> <u>Other chromosomal anomalies</u>
306	1	<u>OTHERCON</u> <u>Other Congenital Anomalies</u>
307-326	20	<u>FLRES</u> <u>Reporting Flags for Place of Residence</u>

These positions contain flags to indicate whether or not the specified item is included on the birth certificate of the State of residence or of the MSA of residence. The code structure for each flag (position) is:

0	...	The item is not reported
1	...	The item is reported or partially reported.

307	1	<u>ORIGM</u> <u>Origin of mother</u>
308	1	<u>ORIGF</u>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
		<u>Origin of father</u>
309	1	<u>EDUCM</u> <u>Education of mother</u>
310	1	<u>EDUCF</u> <u>Education of father</u>
311	1	<u>GESTE</u> <u>Clinical estimate of gestation</u>
312	1	<u>R6A</u> <u>Reserved position</u>
313	1	<u>FMAPSRF</u> <u>5 - minute Apgar score</u>
314	1	<u>DELMETRF</u> <u>Method of delivery</u>
315	1	<u>MEDRSK</u> <u>Medical risk factors</u>
316	1	<u>TOBUSE</u> <u>Tobacco use</u>
317	1	<u>ALCUSE</u> <u>Alcohol use</u>
318	1	<u>WTGN</u> <u>Weight gain</u>
319	1	<u>OBSTRC</u> <u>Obstetric procedures</u>
320	1	<u>CLABOR</u> <u>Complications of labor and/or delivery</u>
321	1	<u>ABNML</u> <u>Abnormal conditions of newborn</u>
322	1	<u>CONGAN</u> <u>Congenital anomalies</u>
323	1	<u>R6</u> <u>Reserved Position</u>

1999
Detail Natality Record

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
324	1	<u>EDUCMSA</u> <u>Education of Mother (Based on MSA)</u>
325	1	<u>APIFLAG</u> <u>Race codes 18-68 reported (beginning with 1992 data)</u>
326-346	21	<u>R7</u> <u>Reserved positions</u>
347-349	3	<u>SMSARES</u> <u>PSMA/MSA of Residence (NCHS)</u>

Primary Metropolitan Statistical Areas and Metropolitan Statistical Areas are those defined by the U.S. Office of Management and Budget (OMB) as of June 30, 1990. For New England, the New England County Metropolitan Areas (NECMA's) are used.

Further back in this document is a list of PMSA's, MSA's, NECMA's, and their component counties.

000	...	Nonmetropolitan counties
001-320	...	Code range
999	...	Area of less than 100,000 population
ZZZ	...	Foreign residents

1999
Detail Natality Record

<u>Tape</u> <u>Location</u>	<u>Field</u> <u>Size</u>	<u>Item and Code Outline</u>
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350	1
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POPSMAS
PMSA/MSA Population Size

Based on 1990 Census county population counts

1	...	Area of 250,000 or more
2	...	Area of 100,000 to 250,000
9	...	Area of less than 100,000 or nonmetropolitan area
Z	...	Foreign resident

Vital Statistics Geographic Code Outline for the United States

The following pages show in detail the geographic codes used by the Division of Vital Statistics in the processing of vital event data occurring in the United States. When an event occurs to a nonresident of the United States, residence data are coded only to the "State" level; several western hemisphere countries or the remainder of the world are uniquely identified. Along with the Division of Vital Statistics codes the Federal Information Processing Standards (FIPS) codes are shown for several items. Both sets of codes appear on the vital event public-use files. The Metropolitan Statistical Area codes are effective with the 1996 data year and are based on the 1990 Census.

To aid the user in interpreting the geographic codes, a brief explanation of the codes and of the column headings/abbreviations shown on the following pages are:

State (St): Each State and the District of Columbia are numbered alphabetically. In addition, several unique codes are used to identify nonresidents of the U.S.

County (Cnty): Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each State.

P/MSA: Primary metropolitan statistical areas and metropolitan statistical areas are those established by the U.S. Office of Management and Budget (OMB) using 1990 Census population counts. For New England, the New England County Metropolitan Areas (NECMA) are used.

M/NM: Metropolitan counties (code 1) are component counties of P/MSA's. Nonmetropolitan counties (code 2) are not part of any P/MSA.

City or place: Cities/places are numbered alphabetically within each State and identify each city with a population of 10,000 or more in 1990.

P/S: Population size code for city of residence based on the 1990 Census. Refer to the code outline given earlier in this document for specific codes and meanings.

Name: Each State, county, and city name is listed along with its respective code. In addition, places used to identify nonresidents of the U.S. are also listed along with their codes.

FIPS: For an explanation of FIPS codes, reference should be made to various National Institute of Standards & Technology (NITS) publications.

So! How do I find Yavapai county, Arizona; or Tupelo city, Mississippi?

Since counties and cities/places are numbered within State, the State and county or the State and city/places codes must be used to select these areas. It is most helpful if the county is known when looking for a particular city since areas are shown by State, county, and city.

Yavapai county, Arizona - State and county codes NCHS: 03 014; FIPS: 04 025.

Tupelo, Mississippi - State and city/place codes NCHS: 25 032; FIPS: 28 74840; or State, county, city/place codes NCHS: 25 041 032; FIPS: 28 081 74840.

Vital Statistics Geographic Code Outline for Puerto Rico, Virgin Islands, Guam, American Samoa and Northern Marianas

The following pages show in detail the geographic codes used by the Division of Vital Statistics in the processing of vital event data occurring in Puerto Rico, the Virgin Islands, or Guam. When an event occurs to a nonresident of these areas, residence data are coded only to the "State" level; each U.S. state, several western hemisphere countries or the remainder of the world are uniquely identified. Along with the Division of Vital Statistics codes, the Federal Information Processing Standards (FIPS) codes are shown for several items. Both sets of codes appear on the vital event public-use files. Codes are effective with the 1994 data year and are based on results of the 1990 Census.

To aid the user in interpreting the geographic codes, a brief explanation of the codes and of the column headings/abbreviations shown on the following pages are:

Puerto Rico:

State (St): Puerto Rico has its own unique code. In addition, several unique codes are used to identify nonresidents of Puerto Rico.

County (Cnty): Each municipio (county equivalent) is numbered alphabetically.

P/MSA: Primary metropolitan statistical areas and metropolitan statistical areas are those established by the U.S. Office of Management and Budget (OMB) using 1990 Census population counts.

M/NM: Metropolitan counties (code 1) are component counties of P/MSA's. Nonmetropolitan counties (code 2) are not part of any P/MSA.

City or Place: No city/places in Puerto Rico are identified.

Name: Puerto Rico and each municipio are listed along with their respective codes. In addition, places used to identify nonresidents of Puerto Rico are also listed along with their codes.

FIPS: For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications.

Virgin Islands:

State (St): The Virgin Islands has its own unique code. In addition, several unique codes are used to identify nonresidents of the Virgin Islands.

County (Cnty): Several Islands (county equivalent) are numbered alphabetically.

P/MSA: None are identified in the Virgin Islands.

M/NM: No metropolitan areas are identified for the Virgin Islands.

City or Place: City/places are numbered alphabetically within each State and identify each city with a population of 10,000 or more in 1990.

P/S: Population size code for city of residence based on the 1990 Census. Refer to the code outline given earlier in this document for specific codes and meanings.

Name: The Virgin Islands as a whole and several islands are listed along with their respective codes. In addition, places used to identify nonresidents of the Virgin Islands are also listed along with their codes.

Guam:

State (St): Guam has its own unique code. In addition, several unique codes are used to identify nonresidents of Guam.

County (Cnty): None are identified in Guam

P/MSA: None are identified in Guam.

M/NM: No metropolitan areas are identified for Guam.

City or Place: None are identified in Guam.

P/S: No population size groups are identified for Guam.

Name: Guam as a whole is listed along with its respective code. In addition, places used to identify nonresidents of Guam are also listed along with their codes.

American Samoa:

State (St): American Samoa has its own unique code. In addition, several unique codes are used to identify nonresidents of American Samoa.

County (Cnty): None are identified in American Samoa

P/MSA: None are identified in American Samoa.

M/NM: No metropolitan areas are identified for American Samoa.

City or Place: None are identified in American Samoa.

P/S: No population size groups are identified for American Samoa.

Name: American Samoa as a whole is listed along with its respective code. In addition, places used to identify nonresidents of American Samoa are also listed along with their codes.

Northern Marianas:

State (St): Northern Marianas has its own unique code. In addition, several unique codes are used to identify nonresidents of Northern Marianas.

County (Cnty): None are identified in Northern Marianas.

P/MSA: None are identified in Northern Marianas.

M/NM: No metropolitan areas are identified for Northern Marianas.

City or Place: None are identified in Northern Marianas.

P/S: No population size groups are identified for Northern Marianas.

Name: Northern Marianas as a whole is listed along with its respective code. In addition, places used to identify nonresidents of Northern Marianas are also listed along with their codes.

Vital Statistics Geographic Code Outline for the United States

The following pages show in detail the geographic codes used by the Division of Vital Statistics in the processing of vital event data occurring in the United States. When an event occurs to a nonresident of the United States, residence data are coded only to the "State" level; several western hemisphere countries or the remainder of the world are uniquely identified. Along with the Division of Vital Statistics codes, the Federal Information Processing Standards (FIPS) codes are shown for several items. Both sets of codes appear on the vital event public-use files. Codes are effective with the 1998 data year and are based on the 1990 Census.

To aid the user in interpreting the geographic codes, a brief explanation of the codes and of the column headings/abbreviations shown on the following pages are:

State (St): Each State and the District of Columbia are numbered alphabetically. In addition, several unique codes are used to identify nonresidents of the U.S.

County (Cnty): Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within each state.

P/MSA: Primary metropolitan statistical areas and metropolitan statistical areas are those established by the U.S. Office of Management and Budget (OMB) using 1990 Census population counts. For New England, the New England County Metropolitan Areas (NECMA) are used.

M/NM: Metropolitan counties (code 1) are component counties of P/MSA's. Nonmetropolitan counties (code 2) are not part of any P/MSA.

City or Place: Cities/Places are numbered alphabetically within each State and identify each city with a population of 10,000 or more in 1990.

P/S: Population size code for city/place of residence based on the 1990 Census. Refer to the code outline given earlier in this document for specific codes and meanings.

Name: Each State, county, and city name is listed along with its respective code. In addition, places used to identify nonresidents of the U.S. are also listed along with their codes.

FIPS: For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications.

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Yavapai county, Arizona - State and county codes NCHS: 03 014; FIPS: 04 025.

Tupelo, Mississippi - State and city/place codes NCHS: 25 032; FIPS: 28 74840; or State, county, city/place codes NCHS: 25 041 032; FIPS: 28 081 74840.

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
01						Alabama	01				
	001	188	1			Autauga		001	5	5240	
				035	6	Prattville, part					62328
				999	9	Balance of county					99999
	002	184	1			Baldwin		003	4	5160	
				010	6	Daphne					19648
				999	9	Balance of county					99999
	003	000	2			Barbour		005	5	0000	
				014	6	Eufaula					24568
				999	9	Balance of county					99999
	004	000	2			Bibb		007	6	0000	
	005	032	1			Blount		009	5	1000	
	006	000	2			Bullock		011	6	0000	
	007	000	2			Butler		013	6	0000	
	008	012	1			Calhoun		015	3	0450	
				004	5	Anniston					01852
				024	6	Jacksonville					38272
				999	9	Balance of county					99999
	009	000	2			Chambers		017	5	0000	
	010	000	2			Cherokee		019	6	0000	
	011	000	2			Chilton		021	5	0000	
	012	000	2			Choctaw		023	6	0000	
	013	000	2			Clarke		025	5	0000	
	014	000	2			Clay		027	6	0000	
	015	000	2			Cleburne		029	6	0000	
	016	000	2			Coffee		031	5	0000	
				013	6	Enterprise, part					24184
				999	9	Balance of county					99999
	017	094	1			Colbert		033	4	2650	
				040	6	Sheffield					69648
				999	9	Balance of county					99999
	018	000	2			Conecuh		035	6	0000	
	019	000	2			Coosa		037	6	0000	
	020	000	2			Covington		039	5	0000	
	021	000	2			Crenshaw		041	6	0000	
	022	000	2			Cullman		043	4	0000	
				009	6	Cullman					18976
				999	9	Balance of county					99999
	023	077	1			Dale		045	5	2180	
				012	4	Dothan, part					21184
				013	6	Enterprise, part					24184
				033	6	Ozark					57648
				999	9	Balance of county					99999
	024	000	2			Dallas		047	5	0000	
				039	6	Selma					69120
				999	9	Balance of county					99999
	025	000	2			De Kalb		049	4	0000	
				017	6	Fort Payne					27616
				999	9	Balance of county					99999
	026	188	1			Elmore		051	5	5240	
				035	6	Prattville, part					62328
				999	9	Balance of county					99999
	027	000	2			Escambia		053	5	0000	
	028	105	1			Etowah		055	4	2880	
				018	5	Gadsden					28696
				999	9	Balance of county					99999
	029	000	2			Fayette		057	6	0000	
	030	000	2			Franklin		059	5	0000	
	031	000	2			Geneva		061	6	0000	
	032	000	2			Greene		063	6	0000	
	033	000	2			Hale		065	6	0000	
	034	000	2			Henry		067	6	0000	
	035	077	1			Houston		069	4	2180	
				012	4	Dothan, part					21184
				999	9	Balance of county					99999
	036	000	2			Jackson		071	5	0000	
				038	6	Scottsboro					68736
				999	9	Balance of county					99999
	037	032	1			Jefferson		073	1	1000	
				007	5	Bessemer					05980
				008	2	Birmingham, part					07000
				015	6	Fairfield					25120
				020	6	Homewood					35800
				021	5	Hoover, part					35896
				022	6	Hueytown					36448

Vital Statistics Codes					FIPS Codes				
St Cnty	P/MSA	M/NM	City	P/S	Area Names	St Cnty	P/S	P/MSA	Place
01					Alabama	01			
	037				Jefferson, con.	073	1	1000	
			030	6	Mountain Brook				51696
			046	6	Vestavia Hills				78552
			999	9	Leeds, part				99999
			999	9	Balance of county				99999
	038	000		2	Lamar	075	6	0000	
	039	094		1	Lauderdale	077	4	2650	
			016	5	Florence				26896
			999	9	Balance of county				99999
	040	072		1	Lawrence	079	5	2030	
	041	000		2	Lee	081	4	0000	
			006	5	Auburn				03076
			032	6	Opelika				57048
			034	5	Phenix City, part				59472
			999	9	Balance of county				99999
	042	129		1	Limestone	083	4	3440	
			005	6	Athens				02956
			011	5	Decatur, part				20104
			023	3	Huntsville, part				37000
			027	6	Madison, part				45784
			999	9	Balance of county				99999
	043	000		2	Lowndes	085	6	0000	
	044	000		2	Macon	087	6	0000	
			045	6	Tuskegee				77304
			999	9	Balance of county				99999
	045	129		1	Madison	089	3	3440	
			023	3	Huntsville, part				37000
			027	6	Madison, part				45784
			999	9	Balance of county				99999
	046	000		2	Marengo	091	6	0000	
	047	000		2	Marion	093	5	0000	
	048	000		2	Marshall	095	4	0000	
			002	6	Albertville				00988
			999	9	Balance of county				99999
	049	184		1	Mobile	097	2	5160	
			028	3	Mobile				50000
			036	5	Prichard				62496
			037	6	Saraland				68160
			999	9	Balance of county				99999
	050	000		2	Monroe	099	6	0000	
	051	188		1	Montgomery	101	3	5240	
			029	3	Montgomery				51000
			999	9	Balance of county				99999
	052	072		1	Morgan	103	3	2030	
			011	5	Decatur, part				20104
			019	6	Hartselle				33448
			999	9	Balance of county				99999
	053	000		2	Perry	105	6	0000	
	054	000		2	Pickens	107	6	0000	
	055	000		2	Pike	109	5	0000	
			043	6	Troy				76920
			999	9	Balance of county				99999
	056	000		2	Randolph	111	6	0000	
	057	063		1	Russell	113	5	1800	
			034	5	Phenix City, part				59472
			999	9	Balance of county				99999
	058	032		1	St. Clair	115	4	1000	
			999	9	Balance of county				99999
			999	9	Leeds, part				99999
	059	032		1	Shelby	117	4	1000	
			001	6	Alabaster				00820
			008	2	Birmingham, part				07000
			021	5	Hoover, part				35896
			999	9	Leeds, part				99999
			999	9	Balance of county				99999
	060	000		2	Sumter	119	6	0000	
	061	000		2	Talladega	121	4	0000	
			041	6	Sylacauga				74352
			042	6	Talladega				74592
			999	9	Balance of county				99999
	062	000		2	Tallapoosa	123	5	0000	
			003	6	Alexander City				01132
			999	9	Balance of county				99999
	063	287		1	Tuscaloosa	125	3	8600	
			031	6	Northport				55200

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
01						Alabama	01				
	063					Tuscaloosa, con.		125	3	8600	
				044	4	Tuscaloosa					77256
				999	9	Balance of county					99999
	064	000	2			Walker		127	4	0000	
				025	6	Jasper					38416
				999	9	Balance of county					99999
	065	000	2	999	9	Washington		129	6	0000	
	066	000	2	999	9	Wilcox		131	6	0000	
	067	000	2	999	9	Winston		133	6	0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
02						Alaska	02				
001	000	2	999	9		Aleutians East	013	6	0000		
002	000	2	999	9		Aleutians West	016	6	0000		
003	010	1	001	3		Anchorage, coext. with Anchorage city	020	3	0380	03000	
004	000	2	999	9		Bethel	050	6	0000		
005	000	2	999	9		Bristol Bay	060	6	0000		
006	000	2	999	9		Dillingham	070	6	0000		
007	000	2				Fairbanks North Star	090	4	0000		
				002	5	Fairbanks					24230
				999	9	Balance of area					99999
008	000	2	999	9		Haines	100	6	0000		
009	000	2	003	5		Juneau, coext. with Juneau city	110	5	0000	36400	
010	000	2	999	9		Kenai Peninsula	122	5	0000		
011	000	2	999	9		Ketchikan Gateway	130	6	0000		
012	000	2	999	9		Kodiak Island	150	6	0000		
013	000	2	999	9		Lake and Peninsula	164	6	0000		
014	000	2	999	9		Matanuska-Susitna	170	5	0000		
015	000	2	999	9		Nome	180	6	0000		
016	000	2	999	9		North Slope	185	6	0000		
017	000	2	999	9		Northwest Arctic	188	6	0000		
018	000	2	999	9		Prince of Wales-Outer Ketchikan	201	6	0000		
019	000	2	999	9		Sitka	220	6	0000		
020	000	2	999	9		Skagway-Hoonah-Angoon	232	6	0000		
021	000	2	999	9		Southeast Fairbanks	240	6	0000		
022	000	2	999	9		Valdez-Cordova	261	6	0000		
023	000	2	999	9		Wade Hampton	270	6	0000		
024	000	2	999	9		Wrangell-Petersburg	280	6	0000		
025	000	2	999	9		Yakutat	282	6	0000		
026	000	2	999	9		Yukon-Koyukuk	290	6	0000		

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
03						Arizona	04				
	001	000	2	999	9	Apache		001	4	0000	
	002	000	2			Cochise		003	4	0000	
				006	6	Douglas					20050
				020	5	Sierra Vista					66820
				999	9	Balance of county					99999
	003	000	2			Coconino		005	4	0000	
				007	5	Flagstaff					23620
				999	9	Balance of county					99999
	004	000	2	999	9	Gila		007	5	0000	
	005	000	2	999	9	Graham		009	5	0000	
	006	000	2	999	9	Greenlee		011	6	0000	
	007	000	2	999	9	La Paz		012	6	0000	
	008	215	1			Maricopa		013	0	6200	
				001	6	Apache Junction, part					02830
				002	6	Avondale					04720
				005	4	Chandler					12000
				008	6	Fountain Hills					25300
				009	5	Gilbert					27400
				010	3	Glendale					27820
				013	2	Mesa					46000
				015	6	Paradise Valley					52930
				016	4	Peoria					54050
				017	1	Phoenix					55000
				019	3	Scottsdale					65000
				021	3	Tempe					73000
				999	9	Balance of county					99999
	009	159	1			Mohave		015	4	4120	
				003	6	Bullhead City					08255
				011	6	Kingman					37620
				012	6	Lake Havasu City					39370
				999	9	Balance of county					99999
	010	000	2	999	9	Navajo		017	4	0000	
	011	285	1			Pima		019	1	8520	
				022	2	Tucson					77000
				999	9	Balance of county					99999
	012	215	1			Pinal		021	3	6200	
				001	6	Apache Junction, part					02830
				004	6	Casa Grande					10530
				999	9	Balance of county					99999
	013	000	2			Santa Cruz		023	5	0000	
				014	6	Nogales					49640
				999	9	Balance of county					99999
	014	000	2			Yavapai		025	3	0000	
				018	5	Prescott					57380
				999	9	Balance of county					99999
	015	311	1			Yuma		027	3	9360	
				023	4	Yuma					85540
				999	9	Balance of county					99999

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
04						Arkansas	05				
	001	000	2			Arkansas		001	6	0000	
				024	6	Stuttgart					67490
				999	9	Balance of county					99999
	002	000	2	999	9	Ashley		003	6	0000	
	003	000	2	999	9	Baxter		005	5	0000	
	004	092	1			Benton		007	4	2580	
				003	6	Bentonville					05320
				019	6	Rogers					60410
				023	5	Springdale, part					66080
				999	9	Balance of county					99999
	005	000	2	999	9	Boone		009	5	0000	
	006	000	2	999	9	Bradley		011	6	0000	
	007	000	2	999	9	Calhoun		013	6	0000	
	008	000	2	999	9	Carroll		015	6	0000	
	009	000	2	999	9	Chicot		017	6	0000	
	010	000	2			Clark		019	6	0000	
				001	6	Arkadelphia					01870
				999	9	Balance of county					99999
	011	000	2	999	9	Clay		021	6	0000	
	012	000	2	999	9	Cleburne		023	6	0000	
	013	000	2	999	9	Cleveland		025	6	0000	
	014	000	2			Columbia		027	5	0000	
				015	6	Magnolia					43460
				999	9	Balance of county					99999
	015	000	2	999	9	Conway		029	6	0000	
	016	000	2			Craighead		031	4	0000	
				013	5	Jonesboro					35710
				999	9	Balance of county					99999
	017	100	1			Crawford		033	5	2720	
				026	6	Van Buren					71480
				999	9	Balance of county					99999
	018	178	1			Crittenden		035	5	4920	
				028	5	West Memphis					74540
				999	9	Balance of county					99999
	019	000	2	999	9	Cross		037	6	0000	
	020	000	2	999	9	Dallas		039	6	0000	
	021	000	2	999	9	Desha		041	6	0000	
	022	000	2	999	9	Drew		043	6	0000	
	023	166	1			Faulkner		045	4	4400	
				006	5	Conway					15190
				999	9	Balance of county					99999
	024	000	2	999	9	Franklin		047	6	0000	
	025	000	2	999	9	Fulton		049	6	0000	
	026	000	2			Garland		051	4	0000	
				011	5	Hot Springs					33460
				999	9	Balance of county					99999
	027	000	2	999	9	Grant		053	6	0000	
	028	000	2			Greene		055	5	0000	
				017	6	Paragould					53390
				999	9	Balance of county					99999
	029	000	2	999	9	Hempstead		057	6	0000	
	030	000	2	999	9	Hot Spring		059	5	0000	
	031	000	2	999	9	Howard		061	6	0000	
	032	000	2	999	9	Independence		063	5	0000	
	033	000	2	999	9	Izard		065	6	0000	
	034	000	2	999	9	Jackson		067	6	0000	
	035	216	1			Jefferson		069	4	6240	
				018	4	Pine Bluff					55310
				999	9	Balance of county					99999
	036	000	2	999	9	Johnson		071	6	0000	
	037	000	2	999	9	Lafayette		073	6	0000	
	038	000	2	999	9	Lawrence		075	6	0000	
	039	000	2	999	9	Lee		077	6	0000	
	040	000	2	999	9	Lincoln		079	6	0000	
	041	000	2	999	9	Little River		081	6	0000	
	042	000	2	999	9	Logan		083	6	0000	
	043	166	1	999	9	Lonoke		085	5	4400	
	044	000	2	999	9	Madison		087	6	0000	
	045	000	2	999	9	Marion		089	6	0000	
	046	281	1			Miller		091	5	8360	
				025	6	Texarkana					68810
				999	9	Balance of county					99999
	047	000	2			Mississippi		093	4	0000	
				004	6	Blytheville					07330

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
04						Arkansas	05				
	047			999	9	Mississippi, con.		093	4	0000	
				999	9	Balance of county					99999
	048	000	2	999	9	Monroe		095	6	0000	
	049	000	2	999	9	Montgomery		097	6	0000	
	050	000	2	999	9	Nevada		099	6	0000	
	051	000	2	999	9	Newton		101	6	0000	
	052	000	2			Ouachita		103	5	0000	
				005	6	Camden					10720
				999	9	Balance of county					99999
	053	000	2	999	9	Perry		105	6	0000	
	054	000	2			Phillips		107	5	0000	
				027	6	West Helena					74450
				999	9	Balance of county					99999
	055	000	2	999	9	Pike		109	6	0000	
	056	000	2	999	9	Poinsett		111	6	0000	
	057	000	2	999	9	Polk		113	6	0000	
	058	000	2			Pope		115	5	0000	
				020	6	Russellville					61670
				999	9	Balance of county					99999
	059	000	2	999	9	Prairie		117	6	0000	
	060	166	1			Pulaski		119	2	4400	
				012	5	Jacksonville					34750
				014	3	Little Rock					41000
				016	4	North Little Rock					50450
				022	6	Sherwood					63800
				999	9	Balance of county					99999
	061	000	2	999	9	Randolph		121	6	0000	
	062	000	2			St. Francis		123	5	0000	
				009	6	Forrest City					24430
				999	9	Balance of county					99999
	063	166	1			Saline		125	4	4400	
				002	6	Benton					05290
				999	9	Balance of county					99999
	064	000	2	999	9	Scott		127	6	0000	
	065	000	2	999	9	Searcy		129	6	0000	
	066	100	1			Sebastian		131	4	2720	
				010	4	Fort Smith					24550
				999	9	Balance of county					99999
	067	000	2	999	9	Sevier		133	6	0000	
	068	000	2	999	9	Sharp		135	6	0000	
	069	000	2	999	9	Stone		137	6	0000	
	070	000	2			Union		139	5	0000	
				007	6	El Dorado					21070
				999	9	Balance of county					99999
	071	000	2	999	9	Van Buren		141	6	0000	
	072	092	1			Washington		143	3	2580	
				008	5	Fayetteville					23290
				023	5	Springdale, part					66080
				999	9	Balance of county					99999
	073	000	2			White		145	4	0000	
				021	6	Searcy					63020
				999	9	Balance of county					99999
	074	000	2	999	9	Woodruff		147	6	0000	
	075	000	2	999	9	Yell		149	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
05						California	06				
	001	201	1			Alameda		001	0	5775	
				002	4	Alameda					00562
				003	6	Albany					00674
				025	3	Berkeley					06000
				073	6	Dublin					20018
				090	3	Fremont					26000
				103	3	Hayward					33000
				135	4	Livermore					41992
				173	5	Newark					50916
				179	2	Oakland					53000
				199	6	Piedmont					56938
				204	4	Pleasanton					57792
				242	4	San Leandro					68084
				287	4	Union City					81204
				999	9	Balance of county					99999
	002	000	2	999	9	Alpine		003	6	0000	
	003	000	2	999	9	Amador		005	5	0000	
	004	056	1			Butte		007	3	1620	
				042	5	Chico					13014
				184	6	Oroville					54386
				193	5	Paradise					55520
				999	9	Balance of county					99999
	005	000	2	999	9	Calaveras		009	5	0000	
	006	000	2	999	9	Colusa		011	6	0000	
	007	201	1			Contra Costa		013	1	5775	
				006	4	Antioch					02252
				052	3	Concord					16000
				064	5	Danville					17988
				077	6	El Cerrito					21796
				105	6	Hercules					33308
				118	6	Lafayette					39122
				151	5	Martinez					46114
				167	6	Moraga Town					49194
				183	6	Orinda					54232
				200	6	Pinole					57288
				201	5	Pittsburg					57456
				203	5	Pleasant Hill					57764
				218	4	Richmond					60620
				247	5	San Pablo					68294
				249	5	San Ramon					68378
				295	4	Walnut Creek					83346
				999	9	Balance of county					99999
	008	000	2	999	9	Del Norte		015	6	0000	
	009	239	1			El Dorado		017	3	6920	
				270	6	South Lake Tahoe					73108
				999	9	Balance of county					99999
	010	104	1			Fresno		019	1	2840	
				047	4	Clovis					14218
				091	2	Fresno					27000
				216	6	Reedley					60242
				238	6	Sanger					67056
				264	6	Selma					70882
				999	9	Balance of county					99999
	011	000	2	999	9	Glenn		021	6	0000	
	012	000	2			Humboldt		023	3	0000	
				009	6	Arcata					02476
				083	5	Eureka					23042
				999	9	Balance of county					99999
	013	000	2			Imperial		025	3	0000	
				027	6	Brawley					08058
				032	6	Calexico					09710
				076	5	El Centro					21782
				999	9	Balance of county					99999
	014	000	2	999	9	Inyo		027	6	0000	
	015	020	1			Kern		029	1	0680	
				016	3	Bakersfield					03526
				066	6	Delano					18394
				219	5	Ridgecrest					60704
				296	6	Wasco					83542
				999	9	Balance of county					99999
	016	000	2			Kings		031	3	0000	
				053	6	Corcoran					16224
				100	5	Hanford					31960
				134	6	Lemoore					41152

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
05						California	06				
	016			999	9	Kings, con.		031	3	0000	99999
						Balance of county					
	017	000	2	046	6	Lake		033	4	0000	13945
				999	9	Clearlake					99999
						Balance of county					
	018	000	2	999	9	Lassen		035	5	0000	
	019	168	1			Los Angeles		037	0	4480	
				001	6	Agoura Hills					00394
				004	4	Alhambra					00884
				008	5	Arcadia					02462
				011	6	Artesia					02896
				015	5	Azusa					03386
				017	4	Baldwin Park					03666
				020	5	Bell					04870
				021	4	Bellflower					04982
				022	5	Bell Gardens					04996
				026	5	Beverly Hills					06308
				030	4	Burbank					08954
				038	4	Carson					11530
				041	4	Cerritos					12552
				045	5	Claremont					13756
				050	6	Commerce					14974
				051	4	Compton					15044
				057	5	Covina					16742
				058	6	Cudahy					17498
				059	5	Culver City					17568
				068	4	Diamond Bar					19192
				071	4	Downey					19766
				072	6	Duarte					19980
				078	3	El Monte					22230
				080	6	El Segundo					22412
				093	5	Gardena					28168
				096	3	Glendale					30000
				097	5	Glendora					30014
				101	6	Hawaiian Gardens					32506
				102	4	Hawthorne					32548
				106	6	Hermosa Beach					33364
				112	4	Huntington Park					36056
				115	3	Inglewood					36546
				117	6	La Canada Flintridge					39003
				123	4	Lakewood					39892
				125	5	La Mirada					40032
				126	4	Lancaster					40130
				128	5	La Puente					40340
				131	5	La Verne					40830
				132	5	Lawndale					40886
				138	6	Lomita					42468
				140	2	Long Beach					43000
				143	0	Los Angeles					44000
				146	4	Lynwood					44574
				148	5	Manhattan Beach					45400
				153	5	Maywood					46492
				161	5	Monrovia					48648
				163	4	Montebello					48816
				165	4	Monterey Park					48914
				176	4	Norwalk					52526
				188	4	Palmdale					55156
				192	6	Palos Verdes Estates					55380
				194	5	Paramount					55618
				195	3	Pasadena					56000
				198	4	Pico Rivera					56924
				205	3	Pomona					58072
				210	5	Rancho Palos Verdes					59514
				214	4	Redondo Beach					60018
				223	4	Rosemead					62896
				234	5	San Dimas					66070
				235	6	San Fernando					66140
				237	5	San Gabriel					67042
				245	6	San Marino					68224
				253	3	Santa Clarita					69088
				255	6	Santa Fe Springs					69154
				257	4	Santa Monica					70000
				265	6	Sierra Madre					71806
				268	6	South El Monte					72996

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
05						California	06				
	019					Los Angeles, con.	037	0		4480	
				269	4	South Gate					73080
				271	6	South Pasadena					73220
				278	5	Temple City					78148
				280	3	Torrance					80000
				294	5	Walnut					83332
				298	4	West Covina					84200
				299	5	West Hollywood					84410
				302	4	Whittier					85292
				999	9	Balance of county					99999
	020	104	1			Madera	039	4		2840	
				147	5	Madera					45022
				999	9	Balance of county					99999
	021	250	1			Marin	041	3		7360	
				130	6	Larkspur					40438
				157	6	Mill Valley					47710
				177	5	Novato					52582
				227	6	San Anselmo					64434
				248	5	San Rafael					68364
				999	9	Balance of county					99999
	022	000	2			Mariposa	043	6		0000	
	023	000	2			Mendocino	045	4		0000	
				286	6	Ukiah					81134
				999	9	Balance of county					99999
	024	179	1			Merced	047	3		4940	
				013	6	Atwater					03162
				144	6	Los Banos					44028
				155	4	Merced					46898
				999	9	Balance of county					99999
	025	000	2			Modoc	049	6		0000	
	026	000	2			Mono	051	6		0000	
	027	245	1			Monterey	053	2		7120	
				150	5	Marina					45778
				164	5	Monterey					48872
				187	6	Pacific Grove					54848
				226	3	Salinas					64224
				263	5	Seaside					70742
				999	9	Balance of county					99999
	028	290	1			Napa	055	3		8720	
				171	4	Napa					50258
				999	9	Balance of county					99999
	029	000	2			Nevada	057	4		0000	
	030	207	1			Orange	059	0		5945	
				005	2	Anaheim					02000
				028	5	Brea					08100
				029	4	Buena Park					08786
				056	4	Costa Mesa					16532
				061	5	Cypress					17750
				063	5	Dana Point					17946
				089	4	Fountain Valley					25380
				092	3	Fullerton					28000
				094	3	Garden Grove					29000
				111	3	Huntington Beach					36000
				116	3	Irvine					36770
				119	6	Laguna Beach					39178
				120	5	Laguna Niguel					39248
				121	4	La Habra					39290
				127	6	La Palma					40256
				141	6	Los Alamitos					43224
				159	4	Mission Viejo					48256
				174	4	Newport Beach					51182
				182	3	Orange					53980
				202	5	Placentia					57526
				232	5	San Clemente					65084
				241	5	San Juan Capistrano					68028
				250	2	Santa Ana					69000
				262	5	Seal Beach					70686
				273	5	Stanton					73962
				284	4	Tustin					80854
				300	4	Westminster					84550
				304	4	Yorba Linda					86832
				999	9	Balance of county					99999
	031	239	1			Placer	061	3		6920	
				014	6	Auburn					03204

Vital Statistics Codes						FIPS Codes			
St Cnty	P/MSA	M/NM	City	P/S	Area Names	St Cnty	P/S	P/MSA	Place
05					California	06			
	031				Placer, con.	061	3	6920	
			221	6	Rocklin				62364
			224	5	Roseville				62938
			999	9	Balance of county				99999
	032	000	2	999	Plumas	063	6	0000	
	033	233	1		Riverside	065	0	6780	
			018	6	Banning				03820
			039	5	Cathedral City				12048
			048	6	Coachella				14260
			054	4	Corona				16350
			067	6	Desert Hot Springs				18996
			104	5	Hemet				33182
			114	5	Indio				36448
			122	6	Lake Elsinore				39486
			129	6	La Quinta				40354
			168	3	Moreno Valley				49270
			175	6	Norco				51560
			189	6	Palm Desert				55184
			190	5	Palm Springs				55254
			196	6	Perris				56700
			220	3	Riverside				62000
			239	6	San Jacinto				67112
			277	5	Temecula				78120
			999	9	Balance of county				99999
	034	239	1		Sacramento	067	0	6920	
			086	5	Folsom				24638
			225	2	Sacramento				64000
			999	9	Balance of county				99999
	035	000	2		San Benito	069	5	0000	
			110	6	Hollister				34120
			999	9	Balance of county				99999
	036	233	1		San Bernardino	071	0	6780	
			007	5	Apple Valley				02364
			019	6	Barstow				04030
			043	4	Chino				13210
			049	5	Colton				14890
			087	4	Fontana				24680
			098	6	Grand Terrace				30658
			107	4	Hesperia				33434
			108	5	Highland				33588
			137	6	Loma Linda				42370
			162	5	Montclair				48788
			181	3	Ontario				53896
			209	3	Rancho Cucamonga				59451
			213	4	Redlands				59962
			217	4	Rialto				60466
			228	3	San Bernardino				65000
			285	6	Twentynine Palms				80994
			288	4	Upland				81344
			291	5	Victorville				82590
			306	5	Yucaipa				87042
			999	9	Balance of county				99999
	037	249	1		San Diego	073	0	7320	
			036	4	Carlsbad				11194
			044	3	Chula Vista				13392
			055	5	Coronado				16378
			075	4	El Cajon				21712
			081	4	Encinitas				22678
			082	3	Escondido				22804
			113	5	Imperial Beach				36294
			124	4	La Mesa				40004
			133	6	Lemon Grove				41124
			172	4	National City				50398
			180	3	Oceanside				53322
			208	5	Poway				58520
			233	0	San Diego				66000
			244	5	San Marcos				68196
			260	4	Santee				70224
			267	6	Solana Beach				72506
			293	4	Vista				82996
			999	9	Balance of county				99999
	038	250	1	236	San Francisco, coext. with San Francisco	075	1	7360	67000
	039	274	1		San Joaquin	077	2	8120	
			136	4	Lodi				42202

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
05						California	06				
	039					San Joaquin, con.		077	2	8120	
				149	5	Manteca					45484
				274	3	Stockton					75000
				281	5	Tracy					80238
				999	9	Balance of county					99999
	040	252	1			San Luis Obispo		079	3	7460	
				010	6	Arroyo Grande					02868
				012	6	Atascadero					03064
				079	6	El Paso de Robles					22300
				099	6	Grover City					31400
				243	5	San Luis Obispo					68154
				999	9	Balance of county					99999
	041	250	1			San Mateo		081	1	7360	
				023	6	Belmont					05108
				031	5	Burlingame					09066
				062	4	Daly City					17918
				074	6	East Palo Alto					20956
				088	5	Foster City					25338
				109	6	Hillsborough					33798
				154	5	Menlo Park					46870
				156	6	Millbrae					47486
				186	5	Pacifica					54806
				215	4	Redwood City					60102
				229	5	San Bruno					65028
				231	5	San Carlos					65070
				246	4	San Mateo					68252
				272	4	South San Francisco					73262
				999	9	Balance of county					99999
	042	253	1			Santa Barbara		083	2	7480	
				037	6	Carpinteria					11446
				139	5	Lompoc					42524
				251	4	Santa Barbara					69070
				256	4	Santa Maria					69196
				999	9	Balance of county					99999
	043	251	1			Santa Clara		085	0	7400	
				034	5	Campbell					10340
				060	5	Cupertino					17610
				095	5	Gilroy					29504
				142	5	Los Altos					43280
				145	5	Los Gatos					44112
				158	4	Milpitas					47766
				169	6	Morgan Hill					49278
				170	4	Mountain View					49670
				191	4	Palo Alto					55282
				240	1	San Jose					68000
				252	4	Santa Clara					69084
				261	5	Saratoga					70280
				276	3	Sunnyvale					77000
				999	9	Balance of county					99999
	044	254	1			Santa Cruz		087	3	7485	
				035	6	Capitola					11040
				254	5	Santa Cruz					69112
				297	5	Watsonville					83668
				999	9	Balance of county					99999
	045	229	1			Shasta		089	3	6690	
				212	4	Redding					59920
				999	9	Balance of county					99999
	046	000	2			Sierra		091	6	0000	
	047	000	2			Siskiyou		093	5	0000	
	048	290	1			Solano		095	2	8720	
				024	6	Benicia					05290
				070	6	Dixon					19402
				084	4	Fairfield					23182
				275	6	Suisun City					75630
				289	4	Vacaville					81554
				290	3	Vallejo					81666
				999	9	Balance of county					99999
	049	256	1			Sonoma		097	2	7500	
				197	5	Petaluma					56784
				222	5	Rohnert Park					62546
				259	3	Santa Rosa					70098
				999	9	Balance of county					99999
	050	185	1			Stanislaus		099	2	5170	
				040	5	Ceres					12524

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
05						California	06				
	050					Stanislaus, con.		099	2	5170	
				160	3	Modesto					48354
				178	6	Oakdale					52694
				283	5	Turlock					80812
				999	9	Balance of county					99999
	051	310	1			Sutter		101	4	9340	
				305	5	Yuba City					86972
				999	9	Balance of county					99999
	052	000	2			Tehama		103	5	0000	
				211	6	Red Bluff					59892
				999	9	Balance of county					99999
	053	000	2			Trinity		105	6	0000	
	054	294	1			Tulare		107	2	8780	
				069	6	Dinuba					19318
				206	5	Porterville					58240
				282	5	Tulare					80644
				292	4	Visalia					82954
				999	9	Balance of county					99999
	055	000	2			Tuolumne		109	5	0000	
	056	291	1			Ventura		111	1	8735	
				033	4	Camarillo					10046
				085	6	Fillmore					24092
				166	5	Moorpark					49138
				185	3	Oxnard					54652
				207	6	Port Hueneme					58296
				230	4	San Buenaventura (Ventura)					65042
				258	5	Santa Paula					70042
				266	3	Simi Valley					72016
				279	3	Thousand Oaks					78582
				999	9	Balance of county					99999
	057	307	1			Yolo		113	3	9270	
				065	5	Davis					18100
				301	5	West Sacramento					84816
				303	5	Woodland					86328
				999	9	Balance of county					99999
	058	310	1			Yuba		115	4	9340	
				152	6	Marysville					46170
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place	
06						Colorado	08					
	001	074	1			Adams		001	2	2080		
				001	4	Arvada, part					03455	
				002	3	Aurora, part					04000	
				004	6	Brighton, part					08675	
				005	6	Broomfield, part					09280	
				008	6	Commerce City					16495	
				023	5	Northglenn					54330	
				026	4	Thornton					77290	
				027	4	Westminster, part					83835	
				999	9	Balance of county					99999	
	002	000	2			Alamosa		003	6	0000		
	003	074	1			Arapahoe		005	2	2080		
				002	3	Aurora, part					04000	
				011	5	Englewood					24785	
				019	5	Littleton, part					45255	
				999	9	Balance of county					99999	
	004	000	2			Archuleta		007	6	0000		
	005	000	2			Baca		009	6	0000		
	006	000	2			Bent		011	6	0000		
	007	038	1			Boulder		013	3	1125		
				003	4	Boulder					07850	
				005	6	Broomfield, part					09280	
				017	6	Lafayette					41835	
				020	4	Longmont					45970	
				021	6	Louisville					46355	
				999	9	Balance of county					99999	
	008	000	2			Chaffee		015	6	0000		
	009	000	2			Cheyenne		017	6	0000		
	010	000	2			Clear Creek		019	6	0000		
	011	000	2			Conejos		021	6	0000		
	012	000	2			Costilla		023	6	0000		
	013	000	2			Crowley		025	6	0000		
	014	000	2			Custer		027	6	0000		
	015	000	2			Delta		029	6	0000		
	016	074	1		009	2	Denver, coext. with Denver city		031	2	2080	20000
	017	000	2		999	9	Dolores		033	6	0000	
	018	074	1			Douglas		035	4	2080		
				002	3	Aurora, part					04000	
				019	5	Littleton, part					45255	
				999	9	Balance of county					99999	
	019	000	2			Eagle		037	6	0000		
	020	000	2			Elbert		039	6	0000		
	021	060	1			El Paso		041	2	1720		
				007	2	Colorado Springs					16000	
				013	6	Fountain					27865	
				999	9	Balance of county					99999	
	022	000	2			Fremont		043	5	0000		
				006	6	Canon City					11810	
				999	9	Balance of county					99999	
	023	000	2			Garfield		045	5	0000		
	024	000	2			Gilpin		047	6	0000		
	025	000	2			Grand		049	6	0000		
	026	000	2			Gunnison		051	6	0000		
	027	000	2			Hinsdale		053	6	0000		
	028	000	2			Huerfano		055	6	0000		
	029	000	2			Jackson		057	6	0000		
	030	074	1			Jefferson		059	2	2080		
				001	4	Arvada, part					03455	
				005	6	Broomfield, part					09280	
				014	6	Golden					30835	
				018	3	Lakewood					43000	
				027	4	Westminster, part					83835	
				028	5	Wheat Ridge					84440	
				999	9	Balance of county					99999	
	031	000	2			Kiowa		061	6	0000		
	032	000	2			Kit Carson		063	6	0000		
	033	000	2			Lake		065	6	0000		
	034	000	2			La Plata		067	5	0000		
				010	6	Durango					22035	
				999	9	Balance of county					99999	
	035	096	1			Larimer		069	3	2670		
				012	4	Fort Collins					27425	
				022	5	Loveland					46465	
				999	9	Balance of county					99999	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
06						Colorado	08				
	036	000	2	999	9	Las Animas		071	6	0000	
	037	000	2	999	9	Lincoln		073	6	0000	
	038	000	2			Logan		075	6	0000	
				025	6	Sterling					73935
				999	9	Balance of county					99999
	039	000	2			Mesa		077	4	0000	
				015	5	Grand Junction					31660
				999	9	Balance of county					99999
	040	000	2	999	9	Mineral		079	6	0000	
	041	000	2	999	9	Moffat		081	6	0000	
	042	000	2	999	9	Montezuma		083	6	0000	
	043	000	2	999	9	Montrose		085	6	0000	
	044	000	2	999	9	Morgan		087	6	0000	
	045	000	2	999	9	Otero		089	6	0000	
	046	000	2	999	9	Ouray		091	6	0000	
	047	000	2	999	9	Park		093	6	0000	
	048	000	2	999	9	Phillips		095	6	0000	
	049	000	2	999	9	Pitkin		097	6	0000	
	050	000	2	999	9	Prowers		099	6	0000	
	051	223	1			Pueblo		101	3	6560	
				024	4	Pueblo					62000
				999	9	Balance of county					99999
	052	000	2	999	9	Rio Blanco		103	6	0000	
	053	000	2	999	9	Rio Grande		105	6	0000	
	054	000	2	999	9	Routt		107	6	0000	
	055	000	2	999	9	Saguache		109	6	0000	
	056	000	2	999	9	San Juan		111	6	0000	
	057	000	2	999	9	San Miguel		113	6	0000	
	058	000	2	999	9	Sedgwick		115	6	0000	
	059	000	2	999	9	Summit		117	6	0000	
	060	000	2	999	9	Teller		119	6	0000	
	061	000	2	999	9	Washington		121	6	0000	
	062	114	1			Weld		123	3	3060	
				004	6	Brighton, part					08675
				005	6	Broomfield, part					09280
				016	4	Greeley					32155
				999	9	Balance of county					99999
	063	000	2	999	9	Yuma		125	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
07						Connecticut	09				
	001	194	1			Fairfield		001	1	5483	
				002	6	Bethel town					04720
				004	3	Bridgeport					08000
				007	4	Danbury					18430
				008	6	Darien town					18920
				014	4	Fairfield town					26620
				016	4	Greenwich town					33620
				029	4	Norwalk					55990
				033	5	Shelton					68100
				035	3	Stamford					73000
				036	5	Stratford town					74260
				038	5	Trumbull town					77270
				044	6	Westport town					83500
				999	9	Balance of county					99999
	002	122	1			Hartford		003	1	3283	
				005	4	Bristol					08420
				011	4	East Hartford town					22630
				013	5	Enfield town					25990
				015	5	Glastonbury town					31240
				018	3	Hartford					37000
				019	4	Manchester town					44700
				024	4	New Britain					50370
				026	5	Newington town					52210
				031	6	Plainville town					60120
				032	6	Rocky Hill town					65370
				034	5	Southington town					70550
				042	4	West Hartford town					82590
				045	5	Wethersfield town					84900
				046	6	Windsor Locks town					87070
				047	5	Windsor town					87000
				999	9	Balance of county					99999
	003	000	2			Litchfield		005	3	0000	
				037	5	Torrington					76500
				999	9	Balance of county					99999
	004	122	1			Middlesex		007	3	3283	
				021	5	Middletown					47290
				999	9	Balance of county					99999
	005	194	1			New Haven		009	1	5483	
				001	6	Ansonia					01150
				003	5	Branford town					07310
				006	5	Cheshire town					14160
				009	6	Derby					19480
				009	6	Derby					19480
				012	5	East Haven town					22980
				017	4	Hamden town					35650
				020	4	Meriden					46450
				022	5	Milford					47500
				023	5	Naugatuck borough					49880
				025	3	New Haven					52000
				028	6	North Haven town					54870
				040	5	Wallingford town					78740
				041	3	Waterbury					80000
				043	4	West Haven					82800
				999	9	Balance of county					99999
	006	195	1			New London		011	2	5523	
				027	5	New London					52280
				030	5	Norwich					56200
				999	9	Balance of county					99999
	007	122	1			Tolland		013	3	3283	
				039	5	Vernon town					78250
				999	9	Balance of county					99999
	008	000	2			Windham		015	3	0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
08						Delaware	10				
	001	078	1			Kent		001	3	2190	
				001	5	Dover					21200
				999	9	Balance of county					99999
	002	304	1			New Castle		003	2	9160	
				002	5	Newark					50670
				003	4	Wilmington					77580
				999	9	Balance of county					99999
	003	000	2	999	9	Sussex		005	3	0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
09	001	296	1	001	1	District of Columbia	11	001	1	8840	

Vital Statistics Codes						FIPS Codes				
St Cnty	P/MSA	M/NM	City	P/S	Area Names	St Cnty	P/S	P/MSA	Place	
10					Florida	12				
001	106	1			Alachua	001	3	2900		
			032	4	Gainesville				25175	
			999	9	Balance of county				99999	
002	000	2	999	9	Baker	003	6	0000		
003	210	1			Bay	005	3	6015		
			009	6	Callaway				09725	
			080	5	Panama City				54700	
			999	9	Balance of county				99999	
004	000	2	999	9	Bradford	007	6	0000		
005	177	1			Brevard	009	2	4900		
			013	6	Cocoa				13150	
			014	6	Cocoa Beach				13175	
			055	4	Melbourne				43975	
			078	4	Palm Bay				54000	
			091	6	Rockledge				61500	
			110	5	Titusville				71900	
			999	9	Balance of county				99999	
006	097	1			Broward	011	0	2680		
			015	5	Coconut Creek				13275	
			016	6	Cooper City				14125	
			018	4	Coral Springs				14400	
			019	6	Dania				16325	
			020	5	Davie				16475	
			022	5	Deerfield Beach				16725	
			028	3	Fort Lauderdale				24000	
			036	5	Hallandale				28450	
			039	3	Hollywood				32000	
			049	5	Lauderdale Lakes				39525	
			050	5	Lauderhill				39550	
			052	6	Lighthouse Point				40450	
			054	5	Margate				43125	
			060	5	Miramar				45975	
			065	5	North Lauderdale				49425	
			070	5	Oakland Park				50575	
			081	4	Pembroke Pines				55775	
			084	4	Plantation				57425	
			086	4	Pompano Beach				58050	
			103	4	Sunrise				69700	
			106	5	Tamarac				70675	
			114	6	Wilton Manors				78000	
			999	9	Balance of county				99999	
007	000	2	999	9	Calhoun	013	6	0000		
008	224	1			Charlotte	015	3	6580		
			089	6	Punta Gorda				59200	
			999	9	Balance of county				99999	
009	000	2	999	9	Citrus	017	4	0000		
010	135	1	999	9	Clay	019	3	3600		
011	191	1			Collier	021	3	5345		
			061	6	Naples				47625	
			999	9	Balance of county				99999	
012	000	2	999	9	Columbia	023	5	0000		
013	180	1			Dade	025	0	5000		
			017	5	Coral Gables				14250	
			037	3	Hialeah				30000	
			040	5	Homestead				32275	
			056	2	Miami				45000	
			057	4	Miami Beach				45025	
			058	6	Miami Shores				45175	
			059	6	Miami Springs				45200	
			066	5	North Miami				49450	
			067	5	North Miami Beach				49475	
			073	6	Opa-locka				51650	
			101	6	South Miami				67550	
			104	6	Sweetwater				70275	
			999	9	Balance of county				99999	
014	000	2	999	9	De Soto	027	6	0000		
015	000	2	999	9	Dixie	029	6	0000		
016	135	1			Duval	031	1	3600		
			003	6	Atlantic Beach				02400	
			041	1	Jacksonville				35000	
			042	6	Jacksonville Beach				35050	
			999	9	Balance of county				99999	
017	212	1			Escambia	033	2	6080		
			082	4	Pensacola				55925	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
10						Florida	12				
	017			999	9	Escambia, con.	033	2		6080	
						Balance of county					99999
	018	071	1	999	9	Flagler	035	5		2020	
	019	000	2	999	9	Franklin	037	6		0000	
	020	278	1	999	9	Gadsden	039	5		8240	
	021	000	2	999	9	Gilchrist	041	6		0000	
	022	000	2	999	9	Glades	043	6		0000	
	023	000	2	999	9	Gulf	045	6		0000	
	024	000	2	999	9	Hamilton	047	6		0000	
	025	000	2	999	9	Hardee	049	6		0000	
	026	000	2	999	9	Hendry	051	5		0000	
	027	279	1	999	9	Hernando	053	3		8280	
	028	000	2	999	9	Highlands	055	4		0000	
	029	279	1			Hillsborough	057	1		8280	
				085	6	Plant City					57550
				107	2	Tampa					71000
				109	6	Temple Terrace					71400
				999	9	Balance of county					99999
	030	000	2	999	9	Holmes	059	6		0000	
	031	000	2			Indian River	061	4		0000	
				099	6	Sebastian					64825
				112	6	Vero Beach					74150
				999	9	Balance of county					99999
	032	000	2	999	9	Jackson	063	5		0000	
	033	000	2	999	9	Jefferson	065	6		0000	
	034	000	2	999	9	Lafayette	067	6		0000	
	035	208	1			Lake	069	3		5960	
				027	6	Eustis					21350
				051	6	Leesburg					39875
				999	9	Balance of county					99999
	036	098	1			Lee	071	2		2700	
				010	4	Cape Coral					10275
				029	5	Fort Myers					24125
				999	9	Balance of county					99999
	037	278	1			Leon	073	3		8240	
				105	3	Tallahassee					70600
				999	9	Balance of county					99999
	038	000	2	999	9	Levy	075	5		0000	
	039	000	2	999	9	Liberty	077	6		0000	
	040	000	2	999	9	Madison	079	6		0000	
	041	257	1			Manatee	081	3		7510	
				008	5	Bradenton					07950
				999	9	Balance of county					99999
	042	202	1			Marion	083	3		5790	
				071	5	Ocala					50750
				999	9	Balance of county					99999
	043	099	1			Martin	085	3		2710	
				102	6	Stuart					68875
				999	9	Balance of county					99999
	044	000	2			Monroe	087	4		0000	
				044	6	Key West					36550
				999	9	Balance of county					99999
	045	135	1	999	9	Nassau	089	5		3600	
	046	101	1			Okaloosa	091	3		2750	
				031	6	Fort Walton Beach					24475
				064	6	Niceville					48750
				999	9	Balance of county					99999
	047	000	2	999	9	Okeechobee	093	5		0000	
	048	208	1			Orange	095	1		5960	
				002	6	Apopka					01700
				072	6	Ocoee					51075
				074	3	Orlando					53000
				116	6	Winter Park					78300
				999	9	Balance of county					99999
	049	208	1			Osceola	097	3		5960	
				045	5	Kissimmee					36950
				095	6	St. Cloud					62625
				999	9	Balance of county					99999
	050	299	1			Palm Beach	099	1		8960	
				005	6	Belle Glade					05200
				006	4	Boca Raton					07300
				007	5	Boynton Beach					07875
				024	5	Delray Beach					17100
				033	6	Greenacres City					27325

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
10						Florida	12				
	050					Palm Beach, con.	099	1		8960	
				043	6	Jupiter					35875
				047	5	Lake Worth					39075
				068	6	North Palm Beach					49600
				079	6	Palm Beach Gardens					54075
				090	5	Riviera Beach					60975
				092	6	Royal Palm Beach					62100
				113	4	West Palm Beach					76600
				999	9	Balance of county					99999
	051	279	1			Pasco	101	2		8280	
				062	6	New Port Richey					48500
				999	9	Balance of county					99999
	052	279	1			Pinellas	103	1		8280	
				012	4	Clearwater					12875
				025	5	Dunedin					18575
				034	6	Gulfport					28175
				048	4	Largo					39425
				083	5	Pinellas Park					56975
				093	6	Safety Harbor					62425
				096	3	St. Petersburg					63000
				108	6	Tarpon Springs					71150
				999	9	Balance of county					99999
	053	154	1			Polk	105	2		3980	
				004	6	Bartow					03675
				035	6	Haines City					28400
				046	4	Lakeland					38250
				115	6	Winter Haven					78275
				999	9	Balance of county					99999
	054	000	2			Putnam	107	4		0000	
				077	6	Palatka					53875
				999	9	Balance of county					99999
	055	135	1			St. Johns	109	4		3600	
				094	6	St. Augustine					62500
				999	9	Balance of county					99999
	056	099	1			St. Lucie	111	3		2710	
				030	5	Fort Pierce					24300
				088	4	Port St. Lucie					58725
				999	9	Balance of county					99999
	057	212	1			Santa Rosa	113	4		6080	
	058	257	1			Sarasota	115	2		7510	
				069	6	North Port					49675
				098	4	Sarasota					64175
				111	6	Venice					73900
				999	9	Balance of county					99999
	059	208	1			Seminole	117	2		5960	
				001	5	Altamonte Springs					00950
				011	6	Casselberry					11050
				053	6	Longwood					41250
				076	6	Oviedo					53575
				097	5	Sanford					63650
				117	6	Winter Springs					78325
				999	9	Balance of county					99999
	060	000	2			Sumter	119	5		0000	
	061	000	2			Suwannee	121	5		0000	
	062	000	2			Taylor	123	6		0000	
	063	000	2			Union	125	6		0000	
	064	071	1			Volusia	127	2		2020	
				021	4	Daytona Beach					16525
				023	6	DeLand					16875
				026	6	Edgewater					19825
				038	6	Holly Hill					31350
				063	6	New Smyrna Beach					48625
				075	5	Ormond Beach					53150
				087	5	Port Orange					58575
				100	6	South Daytona					67325
				999	9	Balance of county					99999
	065	000	2			Wakulla	129	6		0000	
	066	000	2			Walton	131	5		0000	
	067	000	2			Washington	133	6		0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
11						Georgia	13				
	001	000	2	999	9	Appling	001	6		0000	
	002	000	2	999	9	Atkinson	003	6		0000	
	003	000	2	999	9	Bacon	005	6		0000	
	004	000	2	999	9	Baker	007	6		0000	
	005	000	2			Baldwin	009	5		0000	
				029	6	Milledgeville					51492
				999	9	Balance of county					99999
	006	000	2	999	9	Banks	011	6		0000	
	007	016	1	999	9	Barrow	013	5		0520	
	008	016	1			Bartow	015	4		0520	
				010	6	Cartersville					13688
				999	9	Balance of county					99999
	009	000	2	999	9	Ben Hill	017	6		0000	
	010	000	2	999	9	Berrien	019	6		0000	
	011	172	1			Bibb	021	3		4680	
				027	3	Macon, part					49000
				999	9	Balance of county					99999
	012	000	2	999	9	Bleckley	023	6		0000	
	013	000	2	999	9	Brantley	025	6		0000	
	014	000	2	999	9	Brooks	027	6		0000	
	015	258	1	999	9	Bryan	029	6		7520	
	016	000	2			Bulloch	031	5		0000	
				038	6	Statesboro					73256
				999	9	Balance of county					99999
	017	000	2	999	9	Burke	033	6		0000	
	018	000	2	999	9	Butts	035	6		0000	
	019	000	2	999	9	Calhoun	037	6		0000	
	020	000	2	999	9	Camden	039	5		0000	
	021	000	2	999	9	Candler	043	6		0000	
	022	016	1			Carroll	045	4		0520	
				009	6	Carrollton					13492
				999	9	Balance of county					99999
	023	053	1	999	9	Catoosa	047	5		1560	
	024	000	2	999	9	Charlton	049	6		0000	
	025	258	1			Chatham	051	3		7520	
				035	3	Savannah					69000
				999	9	Balance of county					99999
	026	063	1	999	9	Chattahoochee	053	6		1800	
	027	000	2	999	9	Chattooga	055	6		0000	
	028	016	1	999	9	Cherokee	057	4		0520	
	029	015	1			Clarke	059	4		0500	
				004	5	Athens					03432
				999	9	Balance of county					99999
	030	000	2	999	9	Clay	061	6		0000	
	031	016	1			Clayton	063	3		0520	
				011	6	College Park, part					17776
				021	6	Forest Park					30536
				999	9	Balance of county					99999
	032	000	2	999	9	Clinch	065	6		0000	
	033	016	1			Cobb	067	2		0520	
				028	5	Marietta					49756
				036	5	Smyrna					71492
				999	9	Balance of county					99999
	034	000	2			Coffee	069	5		0000	
				017	6	Douglas					23872
				999	9	Balance of county					99999
	035	000	2			Colquitt	071	5		0000	
				030	6	Moultrie					53060
				999	9	Balance of county					99999
	036	018	1	999	9	Columbia	073	4		0600	
	037	000	2	999	9	Cook	075	6		0000	
	038	016	1			Coweta	077	4		0520	
				031	6	Newnan					55020
				999	9	Balance of county					99999
	039	000	2	999	9	Crawford	079	6		0000	
	040	000	2			Crisp	081	6		0000	
				013	6	Cordele					19616
				999	9	Balance of county					99999
	041	053	1	999	9	Dade	083	6		1560	
	042	000	2	999	9	Dawson	085	6		0000	
	043	000	2			Decatur	087	5		0000	
				007	6	Bainbridge					04896
				999	9	Balance of county					99999
	044	016	1			De Kalb	089	1		0520	
				005	2	Atlanta, part					04000

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
11						Georgia	13				
	044			016	6	De Kalb, con.		089	1	0520	
				999	9	Decatur					22052
				999	9	Balance of county					99999
	045	000	2	999	9	Dodge		091	6	0000	
	046	000	2	999	9	Dooly		093	6	0000	
	047	003	1			Dougherty		095	4	0120	
				001	4	Albany					01052
				999	9	Balance of county					99999
	048	016	1			Douglas		097	4	0520	
				018	6	Douglasville					23900
				999	9	Balance of county					99999
	049	000	2	999	9	Early		099	6	0000	
	050	000	2	999	9	Echols		101	6	0000	
	051	258	1	999	9	Effingham		103	5	7520	
	052	000	2	999	9	Elbert		105	6	0000	
	053	000	2	999	9	Emanuel		107	6	0000	
	054	000	2	999	9	Evans		109	6	0000	
	055	000	2	999	9	Fannin		111	6	0000	
	056	016	1			Fayette		113	4	0520	
				032	6	Peachtree City					59724
				999	9	Balance of county					99999
	057	000	2			Floyd		115	4	0000	
				033	5	Rome					66668
				999	9	Balance of county					99999
	058	016	1	999	9	Forsyth		117	5	0520	
	059	000	2	999	9	Franklin		119	6	0000	
	060	016	1			Fulton		121	1	0520	
				002	6	Alpharetta					01696
				005	2	Atlanta, part					04000
				011	6	College Park, part					17776
				020	5	East Point					25720
				034	5	Roswell					67284
				999	9	Balance of county					99999
	061	000	2	999	9	Gilmer		123	6	0000	
	062	000	2	999	9	Glascok		125	6	0000	
	063	000	2			Glynn		127	4	0000	
				008	6	Brunswick					11560
				999	9	Balance of county					99999
	064	000	2	999	9	Gordon		129	5	0000	
	065	000	2	999	9	Grady		131	6	0000	
	066	000	2	999	9	Greene		133	6	0000	
	067	016	1			Gwinnett		135	2	0520	
				026	6	Lawrenceville					45488
				037	6	Snellville					71604
				999	9	Balance of county					99999
	068	000	2	999	9	Habersham		137	5	0000	
	069	000	2			Hall		139	4	0000	
				022	6	Gainesville					31908
				999	9	Balance of county					99999
	070	000	2	999	9	Hancock		141	6	0000	
	071	000	2	999	9	Haralson		143	6	0000	
	072	063	1	999	9	Harris		145	6	1800	
	073	000	2	999	9	Hart		147	6	0000	
	074	000	2	999	9	Heard		149	6	0000	
	075	016	1	999	9	Henry		151	4	0520	
	076	172	1			Houston		153	4	4680	
				043	5	Warner Robins					80508
				999	9	Balance of county					99999
	077	000	2	999	9	Irwin		155	6	0000	
	078	000	2	999	9	Jackson		157	5	0000	
	079	000	2	999	9	Jasper		159	6	0000	
	080	000	2	999	9	Jeff Davis		161	6	0000	
	081	000	2	999	9	Jefferson		163	6	0000	
	082	000	2	999	9	Jenkins		165	6	0000	
	083	000	2	999	9	Johnson		167	6	0000	
	084	172	1			Jones		169	6	4680	
				027	3	Macon, part					49000
				999	9	Balance of county					99999
	085	000	2	999	9	Lamar		171	6	0000	
	086	000	2	999	9	Lanier		173	6	0000	
	087	000	2			Laurens		175	5	0000	
				019	6	Dublin					24376
				999	9	Balance of county					99999
	088	003	1	999	9	Lee		177	6	0120	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
11						Georgia	13				
	089	000	2			Liberty		179	4	0000	
				024	6	Hinesville					38964
				999	9	Balance of county					99999
	090	000	2	999	9	Lincoln		181	6	0000	
	091	000	2	999	9	Long		183	6	0000	
	092	000	2			Lowndes		185	4	0000	
				041	5	Valdosta					78800
				999	9	Balance of county					99999
	093	000	2	999	9	Lumpkin		187	6	0000	
	094	018	1	999	9	McDuffie		189	6	0600	
	095	000	2	999	9	McIntosh		191	6	0000	
	096	000	2	999	9	Macon		193	6	0000	
	097	015	1	999	9	Madison		195	6	0500	
	098	000	2	999	9	Marion		197	6	0000	
	099	000	2	999	9	Meriwether		199	6	0000	
	100	000	2	999	9	Miller		201	6	0000	
	101	000	2	999	9	Mitchell		205	6	0000	
	102	000	2	999	9	Monroe		207	6	0000	
	103	000	2			Montgomery		209	6	0000	
				042	6	Vidalia, part					79388
				999	9	Balance of county					99999
	104	000	2	999	9	Morgan		211	6	0000	
	105	000	2	999	9	Murray		213	5	0000	
	106	063	1			Muscogee		215	3	1800	
				012	3	Columbus					19000
				999	9	Balance of county					99999
	107	016	1			Newton		217	5	0520	
				014	6	Covington					20064
				999	9	Balance of county					99999
	108	015	1	999	9	Oconee		219	6	0500	
	109	000	2	999	9	Oglethorpe		221	6	0000	
	110	016	1	999	9	Paulding		223	5	0520	
	111	172	1	999	9	Peach		225	6	4680	
	112	016	1	999	9	Pickens		227	6	0520	
	113	000	2			Pierce		229	6	0000	
				044	6	Waycross, part					80956
				999	9	Balance of county					99999
	114	000	2	999	9	Pike		231	6	0000	
	115	000	2	999	9	Polk		233	5	0000	
	116	000	2	999	9	Pulaski		235	6	0000	
	117	000	2	999	9	Putnam		237	6	0000	
	118	000	2	999	9	Quitman		239	6	0000	
	119	000	2	999	9	Rabun		241	6	0000	
	120	000	2	999	9	Randolph		243	6	0000	
	121	018	1			Richmond		245	3	0600	
				006	5	Augusta					04196
				999	9	Balance of county					99999
	122	016	1	999	9	Rockdale		247	4	0520	
	123	000	2	999	9	Schley		249	6	0000	
	124	000	2	999	9	Screven		251	6	0000	
	125	000	2	999	9	Seminole		253	6	0000	
	126	016	1			Spalding		255	4	0520	
				023	6	Griffin					35324
				999	9	Balance of county					99999
	127	000	2	999	9	Stephens		257	6	0000	
	128	000	2	999	9	Stewart		259	6	0000	
	129	000	2			Sumter		261	5	0000	
				003	6	Americus					02116
				999	9	Balance of county					99999
	130	000	2	999	9	Talbot		263	6	0000	
	131	000	2	999	9	Taliaferro		265	6	0000	
	132	000	2	999	9	Tattnall		267	6	0000	
	133	000	2	999	9	Taylor		269	6	0000	
	134	000	2	999	9	Telfair		271	6	0000	
	135	000	2	999	9	Terrell		273	6	0000	
	136	000	2			Thomas		275	5	0000	
				039	6	Thomasville					76224
				999	9	Balance of county					99999
	137	000	2			Tift		277	5	0000	
				040	6	Tifton					76476
				999	9	Balance of county					99999
	138	000	2			Toombs		279	6	0000	
				042	6	Vidalia, part					79388
				999	9	Balance of county					99999

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
11						Georgia	13				
	139	000	2	999	9	Towns		281	6	0000	
	140	000	2	999	9	Treutlen		283	6	0000	
	141	000	2			Troup		285	4	0000	
				025	5	La Grange					44340
				999	9	Balance of county					99999
	142	000	2	999	9	Turner		287	6	0000	
	143	172	1	999	9	Twiggs		289	6	4680	
	144	000	2	999	9	Union		291	6	0000	
	145	000	2	999	9	Upson		293	5	0000	
	146	053	1	999	9	Walker		295	4	1560	
	147	016	1	999	9	Walton		297	5	0520	
	148	000	2			Ware		299	5	0000	
				044	6	Waycross, part					80956
				999	9	Balance of county					99999
	149	000	2	999	9	Warren		301	6	0000	
	150	000	2	999	9	Washington		303	6	0000	
	151	000	2	999	9	Wayne		305	6	0000	
	152	000	2	999	9	Webster		307	6	0000	
	153	000	2	999	9	Wheeler		309	6	0000	
	154	000	2	999	9	White		311	6	0000	
	155	000	2			Whitfield		313	4	0000	
				015	6	Dalton					21380
				999	9	Balance of county					99999
	156	000	2	999	9	Wilcox		315	6	0000	
	157	000	2	999	9	Wilkes		317	6	0000	
	158	000	2	999	9	Wilkinson		319	6	0000	
	159	000	2	999	9	Worth		321	6	0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
12						Hawaii	15				
	001	000	2			Hawaii		001	3	0000	
				002	5	Hilo					14650
				999	9	Balance of county					99999
	002	125	1			Honolulu		003	1	3320	
				001	6	Ewa Beach					07450
				003	2	Honolulu					17000
				005	5	Kailua					23150
				006	5	Kaneohe					28250
				007	5	Mililani Town					51050
				008	5	Pearl City					62600
				009	6	Schofield Barracks					69050
				010	6	Wahiawa					72650
				012	5	Waipahu					79700
				999	9	Balance of county					99999
	003	000	2	999	9	Kalawao		005	6	0000	
	004	000	2	999	9	Kauai		007	4	0000	
	005	000	2			Maui		009	3	0000	
				004	6	Kahului					22700
				011	6	Wailuku					77450
				999	9	Balance of county					99999

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
13						Idaho	16				
	001	036	1			Ada	001	3		1080	
				001	3	Boise City					08830
				999	9	Balance of county					99999
	002	000	2	999	9	Adams	003	6		0000	
	003	000	2			Bannock	005	4		0000	
				008	5	Pocatello, part					64090
				999	9	Balance of county					99999
	004	000	2	999	9	Bear Lake	007	6		0000	
	005	000	2	999	9	Benewah	009	6		0000	
	006	000	2	999	9	Bingham	011	5		0000	
	007	000	2	999	9	Blaine	013	6		0000	
	008	000	2	999	9	Boise	015	6		0000	
	009	000	2	999	9	Bonner	017	5		0000	
	010	000	2			Bonneville	019	4		0000	
				004	5	Idaho Falls					39700
				999	9	Balance of county					99999
	011	000	2	999	9	Boundary	021	6		0000	
	012	000	2	999	9	Butte	023	6		0000	
	013	000	2	999	9	Camas	025	6		0000	
	014	036	1			Canyon	027	4		1080	
				002	6	Caldwell					12250
				007	5	Nampa					56260
				999	9	Balance of county					99999
	015	000	2	999	9	Caribou	029	6		0000	
	016	000	2	999	9	Cassia	031	6		0000	
	017	000	2	999	9	Clark	033	6		0000	
	018	000	2	999	9	Clearwater	035	6		0000	
	019	000	2	999	9	Custer	037	6		0000	
	020	000	2	999	9	Elmore	039	6		0000	
	021	000	2	999	9	Franklin	041	6		0000	
	022	000	2	999	9	Fremont	043	6		0000	
	023	000	2	999	9	Gem	045	6		0000	
	024	000	2	999	9	Gooding	047	6		0000	
	025	000	2	999	9	Idaho	049	6		0000	
	026	000	2	999	9	Jefferson	051	6		0000	
	027	000	2	999	9	Jerome	053	6		0000	
	028	000	2			Kootenai	055	4		0000	
				003	6	Coeur d'Alene					16750
				999	9	Balance of county					99999
	029	000	2			Latah	057	5		0000	
				006	6	Moscow					54550
				999	9	Balance of county					99999
	030	000	2	999	9	Lemhi	059	6		0000	
	031	000	2	999	9	Lewis	061	6		0000	
	032	000	2	999	9	Lincoln	063	6		0000	
	033	000	2			Madison	065	6		0000	
				009	6	Rexburg					67420
				999	9	Balance of county					99999
	034	000	2	999	9	Minidoka	067	6		0000	
	035	000	2			Nez Perce	069	5		0000	
				005	5	Lewiston					46540
				999	9	Balance of county					99999
	036	000	2	999	9	Oneida	071	6		0000	
	037	000	2	999	9	Owyhee	073	6		0000	
	038	000	2	999	9	Payette	075	6		0000	
	039	000	2			Power	077	6		0000	
				008	5	Pocatello, part					64090
				999	9	Balance of county					99999
	040	000	2	999	9	Shoshone	079	6		0000	
	041	000	2	999	9	Teton	081	6		0000	
	042	000	2			Twin Falls	083	4		0000	
				010	5	Twin Falls					82810
				999	9	Balance of county					99999
	043	000	2	999	9	Valley	085	6		0000	
	044	000	2	999	9	Washington	087	6		0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
14						Illinois	17				
	001	000	2			Adams	001	4		0000	
				138	5	Quincy					62367
				999	9	Balance of county					99999
	002	000	2	999	9	Alexander	003	6		0000	
	003	000	2	999	9	Bond	005	6		0000	
	004	237	1			Boone	007	5		6880	
				011	6	Belvidere					05092
				999	9	Balance of county					99999
	005	000	2	999	9	Brown	009	6		0000	
	006	000	2	999	9	Bureau	011	5		0000	
	007	000	2	999	9	Calhoun	013	6		0000	
	008	000	2	999	9	Carroll	015	6		0000	
	009	000	2	999	9	Cass	017	6		0000	
	010	048	1			Champaign	019	3		1400	
				032	4	Champaign					12385
				139	6	Rantoul village					62783
				160	5	Urbana					77005
				999	9	Balance of county					99999
	011	000	2			Christian	021	5		0000	
				158	6	Taylorville					74574
				999	9	Balance of county					99999
	012	000	2	999	9	Clark	023	6		0000	
	013	000	2	999	9	Clay	025	6		0000	
	014	243	1			Clinton	027	5		7040	
				031	6	Centralia, part					12164
				999	9	Balance of county					99999
	015	000	2			Coles	029	4		0000	
				033	6	Charleston					12567
				105	6	Mattoon					47553
				999	9	Balance of county					99999
	016	055	1			Cook	031	0		1600	
				003	6	Alsip village					01010
				005	4	Arlington Heights village					02154
				007	6	Bartlett village, part					04013
				010	6	Bellwood village					04975
				012	6	Bensenville village, part					05248
				013	5	Berwyn					05573
				016	6	Blue Island					06704
				020	6	Bridgeview village					08225
				021	6	Brookfield village					08576
				022	5	Buffalo Grove village, part					09447
				023	5	Burbank					09642
				025	5	Calumet City					10487
				034	0	Chicago, part					14000
				035	5	Chicago Heights					14026
				036	6	Chicago Ridge village					14065
				037	4	Cicero					14351
				039	6	Country Club Hills					16691
				041	6	Crestwood village					17497
				046	6	Deerfield village, part					18992
				048	4	Des Plaines					19642
				050	6	Dolton village					20292
				057	4	Elgin, part					23074
				058	5	Elk Grove Village village, part					23256
				060	6	Elmwood Park village					23724
				061	4	Evanston					24582
				062	6	Evergreen Park village					24634
				064	6	Forest Park village					26935
				065	6	Franklin Park village					27702
				071	5	Glenview village					29938
				074	5	Hanover Park village, part					32746
				075	5	Harvey					33383
				076	6	Hazel Crest village					33695
				078	6	Hickory Hills					34514
				080	6	Hinsdale village, part					35307
				081	5	Hoffman Estates village, part					35411
				082	6	Homewood village					35879
				085	6	Justice village					38830
				088	6	La Grange Park village					40793
				089	6	La Grange village					40767
				092	5	Lansing village					42028
				095	6	Lincolnwood village					43744
				103	6	Markham					47007
				104	6	Matteson village					47540

Vital Statistics Codes					FIPS Codes				Place
St Cnty	P/MSA	M/NM	City	P/S	Area Names	St Cnty	P/S	P/MSA	
14					Illinois	17			
	016				Cook, con.	031	0	1600	
			106	5	Maywood village				47774
			107	6	Melrose Park village				48242
			108	6	Midlothian village				48892
			111	6	Morton Grove village				50647
			113	4	Mount Prospect village				51089
			117	5	Niles village				53000
			119	6	Norridge village				53377
			120	5	Northbrook village				53481
			122	6	Northlake				53871
			123	5	Oak Forest				54638
			124	4	Oak Lawn village				54820
			125	4	Oak Park village				54885
			127	5	Orland Park village				56640
			129	5	Palatine village				57225
			130	6	Palos Heights				57381
			131	6	Palos Hills				57394
			132	6	Park Forest village, part				57732
			133	5	Park Ridge				57875
			137	6	Prospect Heights				62016
			140	6	Richton Park village				63706
			141	6	Riverdale village				64278
			142	6	River Forest village				64304
			145	6	Rolling Meadows				65338
			147	6	Roselle village, part				65806
			150	4	Schaumburg village, part				68003
			151	6	Schiller Park village				68081
			152	4	Skokie village				70122
			153	6	South Holland village				70850
			156	5	Streamwood village				73157
			159	5	Tinley Park village, part				75484
			166	6	Westchester village				80047
			168	6	Western Springs village				80242
			171	5	Wheeling village, part				81087
			172	5	Wilmette village				82075
			173	6	Winnetka village				82530
			178	6	Worth village				83518
			999	9	Balance of county				99999
	017	000	2	999	9	Crawford	033	6	0000
	018	000	2	999	9	Cumberland	035	6	0000
	019	055	1			De Kalb	037	4	1600
			047	5	De Kalb				19161
			999	9	Balance of county				99999
	020	000	2	999	9	De Witt	039	6	0000
	021	000	2	999	9	Douglas	041	6	0000
	022	055	1			Du Page	043	1	1600
			001	5	Addison village				00243
			006	4	Aurora, part				03012
			007	6	Bartlett village, part				04013
			008	6	Batavia, part				04078
			012	6	Bensenville village, part				05248
			014	6	Bloomington village				06587
			017	5	Bolingbrook village, part				07133
			028	5	Carol Stream village				11332
			034	0	Chicago, part				14000
			044	6	Darien				18628
			051	5	Downers Grove village				20591
			058	5	Elk Grove Village village, part				23256
			059	5	Elmhurst				23620
			069	5	Glendale Heights village				29730
			070	6	Glen Ellyn village				29756
			074	5	Hanover Park village, part				32746
			080	6	Hinsdale village, part				35307
			096	6	Lisle village				43939
			097	5	Lombard village				44407
			116	4	Naperville, part				51622
			147	6	Roselle village, part				65806
			149	6	St. Charles, part				66703
			150	4	Schaumburg village, part				68003
			162	6	Villa Park village				77993
			163	6	Warrenville				78929
			167	6	West Chicago				80060
			169	6	Westmont village				80645
			170	4	Wheaton				81048

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
14						Illinois	17				
	022					Du Page, con.	043	1	1600		
				174	6	Wood Dale					82985
				175	5	Woodridge village, part					83245
				999	9	Balance of county					99999
	023	000	2		999	Edgar	045	6	0000		
	024	000	2		999	Edwards	047	6	0000		
	025	000	2			Effingham	049	5	0000		
				056	6	Effingham					22736
				999	9	Balance of county					99999
	026	000	2		999	Fayette	051	6	0000		
	027	000	2		999	Ford	053	6	0000		
	028	000	2		999	Franklin	055	5	0000		
	029	000	2			Fulton	057	5	0000		
				026	6	Canton					11007
				999	9	Balance of county					99999
	030	000	2		999	Gallatin	059	6	0000		
	031	000	2		999	Greene	061	6	0000		
	032	055	1			Grundy	063	5	1600		
				110	6	Morris					50491
				999	9	Balance of county					99999
	033	000	2		999	Hamilton	065	6	0000		
	034	000	2		999	Hancock	067	6	0000		
	035	000	2		999	Hardin	069	6	0000		
	036	000	2		999	Henderson	071	6	0000		
	037	069	1			Henry	073	4	1960		
				087	6	Kewanee					39727
				999	9	Balance of county					99999
	038	000	2		999	Iroquois	075	5	0000		
	039	000	2			Jackson	077	4	0000		
				027	5	Carbondale					11163
				999	9	Balance of county					99999
	040	000	2		999	Jasper	079	6	0000		
	041	000	2			Jefferson	081	5	0000		
				114	6	Mount Vernon					51180
				999	9	Balance of county					99999
	042	243	1		999	Jersey	083	6	7040		
	043	000	2		999	Jo Daviess	085	6	0000		
	044	000	2		999	Johnson	087	6	0000		
	045	055	1			Kane	089	2	1600		
				002	6	Algonquin village, part					00685
				006	4	Aurora, part					03012
				007	6	Bartlett village, part					04013
				008	6	Batavia, part					04078
				029	6	Carpentersville village					11358
				057	4	Elgin, part					23074
				068	6	Geneva					28872
				149	6	St. Charles, part					66703
				999	9	Balance of county					99999
	046	144	1			Kankakee	091	4	3740		
				018	6	Bourbonnais village					07471
				019	6	Bradley village					07744
				086	5	Kankakee					38934
				999	9	Balance of county					99999
	047	055	1		999	Kendall	093	5	1600		
	048	000	2			Knox	095	4	0000		
				067	5	Galesburg					28326
				999	9	Balance of county					99999
	049	055	1			Lake	097	1	1600		
				022	5	Buffalo Grove village, part					09447
				046	6	Deerfield village, part					18992
				073	6	Gurnee village					32018
				079	5	Highland Park					34722
				090	6	Lake Forest					41105
				091	6	Lake Zurich village					41742
				093	6	Libertyville village					43250
				115	6	Mundelein village					51349
				121	5	North Chicago					53559
				148	6	Round Lake Beach village					66040
				161	6	Vernon Hills village					77694
				165	4	Waukegan					79293
				171	5	Wheeling village, part					81087
				179	6	Zion					84220
				999	9	Balance of county					99999
	050	000	2			La Salle	099	3	0000		
				128	6	Ottawa					56926

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
14						Illinois	17				
	050			157	6	La Salle, con.		099	3	0000	73170
				999	9	Streator, part					99999
				999	9	Balance of county					
	051	000	2	999	9	Lawrence		101	6	0000	
	052	000	2			Lee		103	5	0000	
				049	6	Dixon					20162
				999	9	Balance of county					99999
	053	000	2			Livingston		105	5	0000	
				136	6	Pontiac					61015
				157	6	Streator, part					73170
				999	9	Balance of county					99999
	054	000	2			Logan		107	5	0000	
				094	6	Lincoln					43536
				999	9	Balance of county					99999
	055	000	2			McDonough		109	5	0000	
				101	6	Macomb					45889
				999	9	Balance of county					99999
	056	055	1			McHenry		111	3	1600	
				002	6	Algonquin village, part					00685
				030	6	Cary village					11592
				042	6	Crystal Lake					17887
				099	6	McHenry					45694
				177	6	Woodstock					83349
				999	9	Balance of county					99999
	057	035	1			McLean		113	3	1040	
				015	4	Bloomington					06613
				118	5	Normal					53234
				999	9	Balance of county					99999
	058	073	1			Macon		115	3	2040	
				045	4	Decatur					18823
				999	9	Balance of county					99999
	059	000	2	999	9	Macoupin		117	5	0000	
	060	243	1			Madison		119	3	7040	
				004	5	Alton					01114
				038	6	Collinsville, part					15599
				055	6	Edwardsville					22697
				072	5	Granite City					30926
				176	6	Wood River					83271
				999	9	Balance of county					99999
	061	000	2			Marion		121	5	0000	
				031	6	Centralia, part					12164
				999	9	Balance of county					99999
	062	000	2	999	9	Marshall		123	6	0000	
	063	000	2	999	9	Mason		125	6	0000	
	064	000	2	999	9	Massac		127	6	0000	
	065	269	1	999	9	Menard		129	6	7880	
	066	000	2	999	9	Mercer		131	6	0000	
	067	243	1	999	9	Monroe		133	6	7040	
	068	000	2	999	9	Montgomery		135	5	0000	
	069	000	2			Morgan		137	5	0000	
				083	6	Jacksonville					38115
				999	9	Balance of county					99999
	070	000	2	999	9	Moultrie		139	6	0000	
	071	237	1	999	9	Ogle		141	5	6880	
	072	213	1			Peoria		143	3	6120	
				134	5	Pekin, part					58447
				135	3	Peoria					59000
				999	9	Balance of county					99999
	073	000	2	999	9	Perry		145	6	0000	
	074	000	2	999	9	Piatt		147	6	0000	
	075	000	2	999	9	Pike		149	6	0000	
	076	000	2	999	9	Pope		151	6	0000	
	077	000	2	999	9	Pulaski		153	6	0000	
	078	000	2	999	9	Putnam		155	6	0000	
	079	000	2	999	9	Randolph		157	5	0000	
	080	000	2	999	9	Richland		159	6	0000	
	081	069	1			Rock Island		161	3	1960	
				052	6	East Moline					22073
				109	5	Moline					49867
				144	5	Rock Island					65078
				999	9	Balance of county					99999
	082	243	1			St. Clair		163	2	7040	
				009	5	Belleville					04845
				024	6	Cahokia village					10370

Vital Statistics Codes				FIPS Codes				Place		
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St		Cnty	P/S	P/MSA
14						Illinois	17			
	082					St. Clair, con.		163	2	7040
				038	6	Collinsville, part				15599
				054	5	East St. Louis				22255
				063	6	Fairview Heights				25141
				126	6	O'Fallon				55249
				999	9	Balance of county				99999
	083	000	2	999	9	Saline		165	5	0000
	084	269	1			Sangamon		167	3	7880
				154	3	Springfield				72000
				999	9	Balance of county				99999
	085	000	2	999	9	Schuyler		169	6	0000
	086	000	2	999	9	Scott		171	6	0000
	087	000	2	999	9	Shelby		173	6	0000
	088	000	2	999	9	Stark		175	6	0000
	089	000	2			Stephenson		177	5	0000
				066	5	Freeport				27884
				999	9	Balance of county				99999
	090	213	1			Tazewell		179	3	6120
				053	6	East Peoria				22164
				112	6	Morton village				50621
				134	5	Pekin, part				58447
				164	6	Washington				79033
				999	9	Balance of county				99999
	091	000	2	999	9	Union		181	6	0000
	092	000	2			Vermilion		183	4	0000
				043	5	Danville				18563
				999	9	Balance of county				99999
	093	000	2	999	9	Wabash		185	6	0000
	094	000	2	999	9	Warren		187	6	0000
	095	000	2	999	9	Washington		189	6	0000
	096	000	2	999	9	Wayne		191	6	0000
	097	000	2	999	9	White		193	6	0000
	098	000	2			Whiteside		195	4	0000
				155	6	Sterling				72546
				999	9	Balance of county				99999
	099	055	1			Will		197	2	1600
				017	5	Bolingbrook village, part				07133
				040	6	Crest Hill				17458
				084	4	Joliet				38570
				116	4	Naperville, part				51622
				132	6	Park Forest village, part				57732
				146	6	Romeoville village				65442
				159	5	Tinley Park village, part				75484
				175	5	Woodridge village, part				83245
				999	9	Balance of county				99999
	100	000	2			Williamson		199	4	0000
				077	6	Herrin				34358
				102	6	Marion				46916
				999	9	Balance of county				99999
	101	237	1			Winnebago		201	2	6880
				098	6	Loves Park				45031
				100	6	Machesney Park village				45726
				143	3	Rockford				65000
				999	9	Balance of county				99999
	102	213	1	999	9	Woodford		203	5	6120

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
15						Indiana	18				
	001	102	1	999	9	Adams		001	5	2760	
	002	102	1			Allen		003	2	2760	
				015	3	Fort Wayne					25000
				047	6	New Haven					52992
				999	9	Balance of county					99999
	003	000	2			Bartholomew		005	4	0000	
				007	5	Columbus					14734
				999	9	Balance of county					99999
	004	000	2	999	9	Benton		007	6	0000	
	005	000	2	999	9	Blackford		009	6	0000	
	006	130	1			Boone		011	5	3480	
				035	6	Lebanon					42624
				999	9	Balance of county					99999
	007	000	2	999	9	Brown		013	6	0000	
	008	000	2	999	9	Carroll		015	6	0000	
	009	000	2			Cass		017	5	0000	
				036	6	Logansport					44658
				999	9	Balance of county					99999
	010	169	1			Clark		019	4	4520	
				006	6	Clarksville					12934
				029	6	Jeffersonville					38358
				999	9	Balance of county					99999
	011	280	1	999	9	Clay		021	6	8320	
	012	152	1			Clinton		023	5	3920	
				016	6	Frankfort					25324
				999	9	Balance of county					99999
	013	000	2	999	9	Crawford		025	6	0000	
	014	000	2			Daviess		027	5	0000	
				063	6	Washington					80504
				999	9	Balance of county					99999
	015	057	1	999	9	Dearborn		029	5	1640	
	016	000	2	999	9	Decatur		031	6	0000	
	017	102	1	999	9	De Kalb		033	5	2760	
	018	189	1			Delaware		035	3	5280	
				043	4	Muncie					51876
				999	9	Balance of county					99999
	019	000	2			Dubois		037	5	0000	
				028	6	Jasper					37782
				999	9	Balance of county					99999
	020	084	1			Elkhart		039	3	2330	
				013	5	Elkhart					20728
				019	6	Goshen					28386
				999	9	Balance of county					99999
	021	000	2			Fayette		041	5	0000	
				008	6	Connersville					14932
				999	9	Balance of county					99999
	022	169	1			Floyd		043	4	4520	
				045	5	New Albany					52326
				999	9	Balance of county					99999
	023	000	2	999	9	Fountain		045	6	0000	
	024	000	2	999	9	Franklin		047	6	0000	
	025	000	2	999	9	Fulton		049	6	0000	
	026	000	2	999	9	Gibson		051	5	0000	
	027	000	2			Grant		053	4	0000	
				038	5	Marion					46908
				999	9	Balance of county					99999
	028	000	2	999	9	Greene		055	5	0000	
	029	130	1			Hamilton		057	3	3480	
				005	5	Carmel					10342
				048	6	Noblesville					54180
				999	9	Balance of county					99999
	030	130	1			Hancock		059	5	3480	
				020	6	Greenfield					29520
				999	9	Balance of county					99999
	031	169	1	999	9	Harrison		061	5	4520	
	032	130	1			Hendricks		063	4	3480	
				050	6	Plainfield					60246
				999	9	Balance of county					99999
	033	000	2			Henry		065	5	0000	
				046	6	New Castle					52740
				999	9	Balance of county					99999
	034	149	1			Howard		067	4	3850	
				030	5	Kokomo					40392
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
15						Indiana	18				
	035	102	1			Huntington		069	5	2760	
				026	6	Huntington					35302
				999	9	Balance of county					99999
	036	000	2			Jackson		071	5	0000	
				054	6	Seymour					68832
				999	9	Balance of county					99999
	037	000	2			Jasper		073	6	0000	
	038	000	2			Jay		075	6	0000	
	039	000	2			Jefferson		077	5	0000	
				037	6	Madison					45990
				999	9	Balance of county					99999
	040	000	2			Jennings		079	6	0000	
	041	130	1			Johnson		081	4	3480	
				017	6	Franklin					25450
				021	5	Greenwood					29898
				999	9	Balance of county					99999
	042	000	2			Knox		083	5	0000	
				060	6	Vincennes					79208
				999	9	Balance of county					99999
	043	000	2			Kosciusko		085	4	0000	
				062	6	Warsaw					80306
				999	9	Balance of county					99999
	044	000	2			Lagrange		087	5	0000	
	045	108	1			Lake		089	2	2960	
				010	6	Crown Point					16138
				011	6	Dyer					19270
				012	5	East Chicago					19486
				018	3	Gary					27000
				022	6	Griffith					30042
				023	4	Hammond					31000
				024	6	Highland					33466
				025	6	Hobart					34114
				032	6	Lake Station					41535
				040	5	Merrillville					48528
				044	6	Munster					51912
				053	6	Schererville					68220
				999	9	Balance of county					99999
	046	000	2			La Porte		091	3	0000	
				033	6	La Porte					42246
				041	5	Michigan City					48798
				999	9	Balance of county					99999
	047	000	2			Lawrence		093	5	0000	
				002	6	Bedford					04114
				999	9	Balance of county					99999
	048	130	1			Madison		095	3	3480	
				001	4	Anderson					01468
				999	9	Balance of county					99999
	049	130	1			Marion		097	1	3480	
				003	6	Beech Grove					04204
				027	1	Indianapolis					36000
				034	5	Lawrence					42426
				057	6	Speedway					71828
				999	9	Balance of county					99999
	050	000	2			Marshall		099	5	0000	
	051	000	2			Martin		101	6	0000	
	052	000	2			Miami		103	5	0000	
				049	6	Peru					59328
				999	9	Balance of county					99999
	053	034	1			Monroe		105	3	1020	
				004	4	Bloomington					05860
				999	9	Balance of county					99999
	054	000	2			Montgomery		107	5	0000	
				009	6	Crawfordsville					15742
				999	9	Balance of county					99999
	055	130	1			Morgan		109	4	3480	
				039	6	Martinsville					47448
				999	9	Balance of county					99999
	056	000	2			Newton		111	6	0000	
	057	000	2			Noble		113	5	0000	
	058	057	1			Ohio		115	6	1640	
	059	000	2			Orange		117	6	0000	
	060	000	2			Owen		119	6	0000	
	061	000	2			Parke		121	6	0000	
	062	000	2			Perry		123	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
15						Indiana	18				
	063	000	2	999	9	Pike		125	6	0000	
	064	108	1			Porter		127	3	2960	
				051	5	Portage					61092
				059	6	Valparaiso					78326
				999	9	Balance of county					99999
	065	089	1	999	9	Posey		129	5	2440	
	066	000	2	999	9	Pulaski		131	6	0000	
	067	000	2	999	9	Putnam		133	5	0000	
	068	000	2	999	9	Randolph		135	5	0000	
	069	000	2	999	9	Ripley		137	6	0000	
	070	000	2	999	9	Rush		139	6	0000	
	071	267	1			St. Joseph		141	3	7800	
				042	5	Mishawaka					49932
				056	3	South Bend					71000
				999	9	Balance of county					99999
	072	169	1	999	9	Scott		143	6	4520	
	073	130	1			Shelby		145	5	3480	
				055	6	Shelbyville					69318
				999	9	Balance of county					99999
	074	000	2	999	9	Spencer		147	6	0000	
	075	000	2	999	9	Starke		149	6	0000	
	076	000	2	999	9	Steuben		151	5	0000	
	077	000	2	999	9	Sullivan		153	6	0000	
	078	000	2	999	9	Switzerland		155	6	0000	
	079	152	1			Tippecanoe		157	3	3920	
				031	5	Lafayette					40788
				064	5	West Lafayette					82862
				999	9	Balance of county					99999
	080	149	1	999	9	Tipton		159	6	3850	
	081	000	2	999	9	Union		161	6	0000	
	082	089	1			Vanderburgh		163	3	2440	
				014	3	Evansville					22000
				999	9	Balance of county					99999
	083	280	1	999	9	Vermillion		165	6	8320	
	084	280	1			Vigo		167	3	8320	
				058	4	Terre Haute					75428
				999	9	Balance of county					99999
	085	000	2			Wabash		169	5	0000	
				061	6	Wabash					79370
				999	9	Balance of county					99999
	086	000	2	999	9	Warren		171	6	0000	
	087	089	1	999	9	Warrick		173	5	2440	
	088	000	2	999	9	Washington		175	6	0000	
	089	000	2			Wayne		177	4	0000	
				052	5	Richmond					64260
				999	9	Balance of county					99999
	090	102	1	999	9	Wells		179	5	2760	
	091	000	2	999	9	White		181	6	0000	
	092	102	1	999	9	Whitley		183	5	2760	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
16						Iowa	19				
	001	000	2	999	9	Adair		001	6	0000	
	002	000	2	999	9	Adams		003	6	0000	
	003	000	2	999	9	Allamakee		005	6	0000	
	004	000	2	999	9	Appanoose		007	6	0000	
	005	000	2	999	9	Audubon		009	6	0000	
	006	000	2	999	9	Benton		011	6	0000	
	007	297	1			Black Hawk		013	3	8920	
				006	5	Cedar Falls					11755
				029	4	Waterloo					82425
				999	9	Balance of county					99999
	008	000	2			Boone		015	5	0000	
				004	6	Boone					07480
				999	9	Balance of county					99999
	009	000	2	999	9	Bremer		017	6	0000	
	010	000	2	999	9	Buchanan		019	6	0000	
	011	000	2	999	9	Buena Vista		021	6	0000	
	012	000	2	999	9	Butler		023	6	0000	
	013	000	2	999	9	Calhoun		025	6	0000	
	014	000	2	999	9	Carroll		027	6	0000	
	015	000	2	999	9	Cass		029	6	0000	
	016	000	2	999	9	Cedar		031	6	0000	
	017	000	2			Cerro Gordo		033	5	0000	
				021	5	Mason City					50160
				999	9	Balance of county					99999
	018	000	2	999	9	Cherokee		035	6	0000	
	019	000	2	999	9	Chickasaw		037	6	0000	
	020	000	2	999	9	Clarke		039	6	0000	
	021	000	2			Clay		041	6	0000	
				027	6	Spencer					74280
				999	9	Balance of county					99999
	022	000	2	999	9	Clayton		043	6	0000	
	023	000	2			Clinton		045	4	0000	
				008	5	Clinton					14430
				999	9	Balance of county					99999
	024	000	2	999	9	Crawford		047	6	0000	
	025	075	1			Dallas		049	5	2120	
				030	5	West Des Moines, part					83910
				999	9	Balance of county					99999
	026	000	2	999	9	Davis		051	6	0000	
	027	000	2	999	9	Decatur		053	6	0000	
	028	000	2	999	9	Delaware		055	6	0000	
	029	000	2			Des Moines		057	5	0000	
				005	5	Burlington					09550
				999	9	Balance of county					99999
	030	000	2	999	9	Dickinson		059	6	0000	
	031	079	1			Dubuque		061	4	2200	
				013	4	Dubuque					22395
				999	9	Balance of county					99999
	032	000	2	999	9	Emmet		063	6	0000	
	033	000	2	999	9	Fayette		065	6	0000	
	034	000	2	999	9	Floyd		067	6	0000	
	035	000	2	999	9	Franklin		069	6	0000	
	036	000	2	999	9	Fremont		071	6	0000	
	037	000	2	999	9	Greene		073	6	0000	
	038	000	2	999	9	Grundy		075	6	0000	
	039	000	2	999	9	Guthrie		077	6	0000	
	040	000	2	999	9	Hamilton		079	6	0000	
	041	000	2	999	9	Hancock		081	6	0000	
	042	000	2	999	9	Hardin		083	6	0000	
	043	000	2	999	9	Harrison		085	6	0000	
	044	000	2	999	9	Henry		087	6	0000	
	045	000	2	999	9	Howard		089	6	0000	
	046	000	2	999	9	Humboldt		091	6	0000	
	047	000	2	999	9	Ida		093	6	0000	
	048	000	2	999	9	Iowa		095	6	0000	
	049	000	2	999	9	Jackson		097	6	0000	
	050	000	2			Jasper		099	5	0000	
				023	6	Newton					56505
				999	9	Balance of county					99999
	051	000	2	999	9	Jefferson		101	6	0000	
	052	131	1			Johnson		103	4	3500	
				009	6	Coralville					16230
				017	4	Iowa City					38595
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
16						Iowa	19				
	053	000	2	999	9	Jones		105	6	0000	
	054	000	2	999	9	Keokuk		107	6	0000	
	055	000	2	999	9	Kossuth		109	6	0000	
	056	000	2			Lee		111	5	0000	
				015	6	Fort Madison					28605
				018	6	Keokuk					40845
				999	9	Balance of county					99999
	057	047	1			Linn		113	3	1360	
				007	3	Cedar Rapids					12000
				019	6	Marion					49485
				999	9	Balance of county					99999
	058	000	2	999	9	Louisa		115	6	0000	
	059	000	2	999	9	Lucas		117	6	0000	
	060	000	2	999	9	Lyon		119	6	0000	
	061	000	2	999	9	Madison		121	6	0000	
	062	000	2			Mahaska		123	6	0000	
				024	6	Oskaloosa					59925
				999	9	Balance of county					99999
	063	000	2	999	9	Marion		125	5	0000	
	064	000	2			Marshall		127	5	0000	
				020	5	Marshalltown					49755
				999	9	Balance of county					99999
	065	000	2	999	9	Mills		129	6	0000	
	066	000	2	999	9	Mitchell		131	6	0000	
	067	000	2	999	9	Monona		133	6	0000	
	068	000	2	999	9	Monroe		135	6	0000	
	069	000	2	999	9	Montgomery		137	6	0000	
	070	000	2			Muscatine		139	5	0000	
				022	6	Muscatine					55110
				999	9	Balance of county					99999
	071	000	2	999	9	O'Brien		141	6	0000	
	072	000	2	999	9	Osceola		143	6	0000	
	073	000	2	999	9	Page		145	6	0000	
	074	000	2	999	9	Palo Alto		147	6	0000	
	075	000	2	999	9	Plymouth		149	6	0000	
	076	000	2	999	9	Pocahontas		151	6	0000	
	077	075	1			Polk		153	2	2120	
				002	6	Ankeny					02305
				012	3	Des Moines					21000
				028	6	Urbandale					79950
				030	5	West Des Moines, part					83910
				999	9	Balance of county					99999
	078	206	1			Pottawattamie		155	4	5920	
				010	4	Council Bluffs					16860
				999	9	Balance of county					99999
	079	000	2	999	9	Poweshiek		157	6	0000	
	080	000	2	999	9	Ringgold		159	6	0000	
	081	000	2	999	9	Sac		161	6	0000	
	082	069	1			Scott		163	3	1960	
				003	5	Bettendorf					06355
				011	4	Davenport					19000
				999	9	Balance of county					99999
	083	000	2	999	9	Shelby		165	6	0000	
	084	000	2	999	9	Sioux		167	5	0000	
	085	000	2			Story		169	4	0000	
				001	5	Ames					01855
				999	9	Balance of county					99999
	086	000	2	999	9	Tama		171	6	0000	
	087	000	2	999	9	Taylor		173	6	0000	
	088	000	2	999	9	Union		175	6	0000	
	089	000	2	999	9	Van Buren		177	6	0000	
	090	000	2			Wapello		179	5	0000	
				025	6	Ottumwa					60465
				999	9	Balance of county					99999
	091	075	1			Warren		181	5	2120	
				016	6	Indianola					38280
				999	9	Balance of county					99999
	092	000	2	999	9	Washington		183	6	0000	
	093	000	2	999	9	Wayne		185	6	0000	
	094	000	2			Webster		187	5	0000	
				014	5	Fort Dodge					28515
				999	9	Balance of county					99999
	095	000	2	999	9	Winnebago		189	6	0000	
	096	000	2	999	9	Winneshiek		191	6	0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
16						Iowa	19				
	097	265	1			Woodbury		193	4	7720	
				026	4	Sioux City					73335
				999	9	Balance of county					99999
	098	000	2	999	9	Worth		195	6	0000	
	099	000	2	999	9	Wright		197	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
17						Kansas	20				
	001	000	2	999	9	Allen		001	6	0000	
	002	000	2	999	9	Anderson		003	6	0000	
	003	000	2			Atchison		005	6	0000	
				002	6	Atchison					02900
				999	9	Balance of county					99999
	004	000	2	999	9	Barber		007	6	0000	
	005	000	2			Barton		009	5	0000	
				009	6	Great Bend					28300
				999	9	Balance of county					99999
	006	000	2	999	9	Bourbon		011	6	0000	
	007	000	2	999	9	Brown		013	6	0000	
	008	301	1			Butler		015	4	9040	
				006	6	El Dorado					20075
				999	9	Balance of county					99999
	009	000	2	999	9	Chase		017	6	0000	
	010	000	2	999	9	Chautauqua		019	6	0000	
	011	000	2	999	9	Cherokee		021	6	0000	
	012	000	2	999	9	Cheyenne		023	6	0000	
	013	000	2	999	9	Clark		025	6	0000	
	014	000	2	999	9	Clay		027	6	0000	
	015	000	2	999	9	Cloud		029	6	0000	
	016	000	2	999	9	Coffey		031	6	0000	
	017	000	2	999	9	Comanche		033	6	0000	
	018	000	2			Cowley		035	5	0000	
				001	6	Arkansas City					02300
				034	6	Winfield					79950
				999	9	Balance of county					99999
	019	000	2			Crawford		037	5	0000	
				028	6	Pittsburg					56025
				999	9	Balance of county					99999
	020	000	2	999	9	Decatur		039	6	0000	
	021	000	2	999	9	Dickinson		041	6	0000	
	022	000	2	999	9	Doniphan		043	6	0000	
	023	160	1			Douglas		045	4	4150	
				015	4	Lawrence					38900
				999	9	Balance of county					99999
	024	000	2	999	9	Edwards		047	6	0000	
	025	000	2	999	9	Elk		049	6	0000	
	026	000	2			Ellis		051	5	0000	
				010	6	Hays					31100
				999	9	Balance of county					99999
	027	000	2	999	9	Ellsworth		053	6	0000	
	028	000	2			Finney		055	5	0000	
				008	6	Garden City					25325
				999	9	Balance of county					99999
	029	000	2			Ford		057	5	0000	
				005	6	Dodge City					18250
				999	9	Balance of county					99999
	030	000	2			Franklin		059	6	0000	
				025	6	Ottawa					53550
				999	9	Balance of county					99999
	031	000	2			Geary		061	5	0000	
				013	6	Junction City					35750
				999	9	Balance of county					99999
	032	000	2	999	9	Gove		063	6	0000	
	033	000	2	999	9	Graham		065	6	0000	
	034	000	2	999	9	Grant		067	6	0000	
	035	000	2	999	9	Gray		069	6	0000	
	036	000	2	999	9	Greeley		071	6	0000	
	037	000	2	999	9	Greenwood		073	6	0000	
	038	000	2	999	9	Hamilton		075	6	0000	
	039	000	2	999	9	Harper		077	6	0000	
	040	301	1			Harvey		079	5	9040	
				023	6	Newton					50475
				999	9	Balance of county					99999
	041	000	2	999	9	Haskell		081	6	0000	
	042	000	2	999	9	Hodgeman		083	6	0000	
	043	000	2	999	9	Jackson		085	6	0000	
	044	000	2	999	9	Jefferson		087	6	0000	
	045	000	2	999	9	Jewell		089	6	0000	
	046	145	1			Johnson		091	2	3760	
				017	6	Leawood					39075
				018	5	Lenexa					39350
				022	6	Merriam					46000

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
17						Kansas	20				
	046					Johnson, con.	091	2	3760		
				024	4	Olathe					52575
				026	3	Overland Park					53775
				029	6	Prairie Village					57575
				031	5	Shawnee					64500
				999	9	Balance of county					99999
	047	000	2	999	9	Kearny	093	6	0000		
	048	000	2	999	9	Kingman	095	6	0000		
	049	000	2	999	9	Kiowa	097	6	0000		
	050	000	2			Labette	099	6	0000		
				027	6	Parsons					54675
				999	9	Balance of county					99999
	051	000	2	999	9	Lane	101	6	0000		
	052	145	1			Leavenworth	103	4	3760		
				016	5	Leavenworth					39000
				999	9	Balance of county					99999
	053	000	2	999	9	Lincoln	105	6	0000		
	054	000	2	999	9	Linn	107	6	0000		
	055	000	2	999	9	Logan	109	6	0000		
	056	000	2			Lyon	111	5	0000		
				007	5	Emporia					21275
				999	9	Balance of county					99999
	057	000	2			McPherson	113	5	0000		
				020	6	McPherson					43950
				999	9	Balance of county					99999
	058	000	2	999	9	Marion	115	6	0000		
	059	000	2	999	9	Marshall	117	6	0000		
	060	000	2	999	9	Meade	119	6	0000		
	061	145	1	999	9	Miami	121	6	3760		
	062	000	2	999	9	Mitchell	123	6	0000		
	063	000	2			Montgomery	125	5	0000		
				003	6	Coffeyville					14600
				012	6	Independence					33875
				999	9	Balance of county					99999
	064	000	2	999	9	Morris	127	6	0000		
	065	000	2	999	9	Morton	129	6	0000		
	066	000	2	999	9	Nemaha	131	6	0000		
	067	000	2	999	9	Neosho	133	6	0000		
	068	000	2	999	9	Ness	135	6	0000		
	069	000	2	999	9	Norton	137	6	0000		
	070	000	2	999	9	Osage	139	6	0000		
	071	000	2	999	9	Osborne	141	6	0000		
	072	000	2	999	9	Ottawa	143	6	0000		
	073	000	2	999	9	Pawnee	145	6	0000		
	074	000	2	999	9	Phillips	147	6	0000		
	075	000	2			Pottawatomie	149	6	0000		
				021	5	Manhattan, part					44250
				999	9	Balance of county					99999
	076	000	2	999	9	Pratt	151	6	0000		
	077	000	2	999	9	Rawlins	153	6	0000		
	078	000	2			Reno	155	4	0000		
				011	5	Hutchinson					33625
				999	9	Balance of county					99999
	079	000	2	999	9	Republic	157	6	0000		
	080	000	2	999	9	Rice	159	6	0000		
	081	000	2			Riley	161	4	0000		
				021	5	Manhattan, part					44250
				999	9	Balance of county					99999
	082	000	2	999	9	Rooks	163	6	0000		
	083	000	2	999	9	Rush	165	6	0000		
	084	000	2	999	9	Russell	167	6	0000		
	085	000	2			Saline	169	5	0000		
				030	5	Salina					62700
				999	9	Balance of county					99999
	086	000	2	999	9	Scott	171	6	0000		
	087	301	1			Sedgwick	173	2	9040		
				004	6	Derby					17800
				033	2	Wichita					79000
				999	9	Balance of county					99999
	088	000	2			Seward	175	6	0000		
				019	6	Liberal					39825
				999	9	Balance of county					99999
	089	283	1			Shawnee	177	3	8440		
				032	3	Topeka					71000

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
17						Kansas	20				
	089			999	9	Shawnee, con.		177	3	8440	
						Balance of county					99999
	090	000	2	999	9	Sheridan		179	6	0000	
	091	000	2	999	9	Sherman		181	6	0000	
	092	000	2	999	9	Smith		183	6	0000	
	093	000	2	999	9	Stafford		185	6	0000	
	094	000	2	999	9	Stanton		187	6	0000	
	095	000	2	999	9	Stevens		189	6	0000	
	096	000	2	999	9	Sumner		191	5	0000	
	097	000	2	999	9	Thomas		193	6	0000	
	098	000	2	999	9	Trego		195	6	0000	
	099	000	2	999	9	Wabaunsee		197	6	0000	
	100	000	2	999	9	Wallace		199	6	0000	
	101	000	2	999	9	Washington		201	6	0000	
	102	000	2	999	9	Wichita		203	6	0000	
	103	000	2	999	9	Wilson		205	6	0000	
	104	000	2	999	9	Woodson		207	6	0000	
	105	145	1			Wyandotte		209	3	3760	
				014	3	Kansas City					36000
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
18						Kentucky	21				
	001	000	2	999	9	Adair		001	6	0000	
	002	000	2	999	9	Allen		003	6	0000	
	003	000	2	999	9	Anderson		005	6	0000	
	004	000	2	999	9	Ballard		007	6	0000	
	005	000	2			Barren		009	5	0000	
				011	6	Glasgow					31114
				999	9	Balance of county					99999
	006	000	2	999	9	Bath		011	6	0000	
	007	000	2			Bell		013	5	0000	
				019	6	Middlesborough					51924
				999	9	Balance of county					99999
	008	057	1			Boone		015	4	1640	
				007	6	Florence					27982
				999	9	Balance of county					99999
	009	163	1	999	9	Bourbon		017	6	4280	
	010	128	1			Boyd		019	4	3400	
				001	6	Ashland					02368
				999	9	Balance of county					99999
	011	000	2			Boyle		021	5	0000	
				004	6	Danville					19882
				999	9	Balance of county					99999
	012	000	2	999	9	Bracken		023	6	0000	
	013	000	2	999	9	Breathitt		025	6	0000	
	014	000	2	999	9	Breckinridge		027	6	0000	
	015	169	1	999	9	Bullitt		029	5	4520	
	016	000	2	999	9	Butler		031	6	0000	
	017	000	2	999	9	Caldwell		033	6	0000	
	018	000	2			Calloway		035	5	0000	
				020	6	Murray					54642
				999	9	Balance of county					99999
	019	057	1			Campbell		037	4	1640	
				008	6	Fort Thomas					28594
				021	6	Newport					55884
				999	9	Balance of county					99999
	020	000	2	999	9	Carlisle		039	6	0000	
	021	000	2	999	9	Carroll		041	6	0000	
	022	128	1	999	9	Carter		043	6	3400	
	023	000	2	999	9	Casey		045	6	0000	
	024	058	1			Christian		047	4	1660	
				013	5	Hopkinsville					37918
				999	9	Balance of county					99999
	025	163	1			Clark		049	5	4280	
				030	6	Winchester					83676
				999	9	Balance of county					99999
	026	000	2	999	9	Clay		051	6	0000	
	027	000	2	999	9	Clinton		053	6	0000	
	028	000	2	999	9	Crittenden		055	6	0000	
	029	000	2	999	9	Cumberland		057	6	0000	
	030	209	1			Daviess		059	4	5990	
				023	4	Owensboro					58620
				999	9	Balance of county					99999
	031	000	2	999	9	Edmonson		061	6	0000	
	032	000	2	999	9	Elliott		063	6	0000	
	033	000	2	999	9	Estill		065	6	0000	
	034	163	1	016	3	Fayette, coext. with Lexington-Fayette		067	3	4280	46000
	035	000	2	999	9	Fleming		069	6	0000	
	036	000	2	999	9	Floyd		071	5	0000	
	037	000	2			Franklin		073	5	0000	
				009	5	Frankfort					28900
				999	9	Balance of county					99999
	038	000	2	999	9	Fulton		075	6	0000	
	039	057	1	999	9	Gallatin		077	6	1640	
	040	000	2	999	9	Garrard		079	6	0000	
	041	057	1	999	9	Grant		081	6	1640	
	042	000	2	999	9	Graves		083	5	0000	
	043	000	2	999	9	Grayson		085	6	0000	
	044	000	2	999	9	Green		087	6	0000	
	045	128	1	999	9	Greenup		089	5	3400	
	046	000	2	999	9	Hancock		091	6	0000	
	047	000	2			Hardin		093	4	0000	
				005	6	Elizabethtown					24274
				025	6	Radcliff					63912
				999	9	Balance of county					99999
	048	000	2	999	9	Harlan		095	5	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
18						Kentucky	21				
	049	000	2	999	9	Harrison		097	6	0000	
	050	000	2	999	9	Hart		099	6	0000	
	051	089	1			Henderson		101	5	2440	
				012	5	Henderson					35866
				999	9	Balance of county					99999
	052	000	2	999	9	Henry		103	6	0000	
	053	000	2	999	9	Hickman		105	6	0000	
	054	000	2			Hopkins		107	5	0000	
				018	6	Madisonville					49368
				999	9	Balance of county					99999
	055	000	2	999	9	Jackson		109	6	0000	
	056	169	1			Jefferson		111	1	4520	
				015	6	Jeffersontown					40222
				017	2	Louisville					48000
				027	6	St. Matthews					67944
				028	6	Shively					70284
				999	9	Balance of county					99999
	057	163	1			Jessamine		113	5	4280	
				022	6	Nicholasville					56136
				999	9	Balance of county					99999
	058	000	2	999	9	Johnson		115	6	0000	
	059	057	1			Kenton		117	3	1640	
				003	5	Covington					17848
				006	6	Erlanger					25300
				014	6	Independence					39142
				999	9	Balance of county					99999
	060	000	2	999	9	Knott		119	6	0000	
	061	000	2	999	9	Knox		121	5	0000	
	062	000	2	999	9	Larue		123	6	0000	
	063	000	2	999	9	Laurel		125	5	0000	
	064	000	2	999	9	Lawrence		127	6	0000	
	065	000	2	999	9	Lee		129	6	0000	
	066	000	2	999	9	Leslie		131	6	0000	
	067	000	2	999	9	Letcher		133	5	0000	
	068	000	2	999	9	Lewis		135	6	0000	
	069	000	2	999	9	Lincoln		137	6	0000	
	070	000	2	999	9	Livingston		139	6	0000	
	071	000	2	999	9	Logan		141	6	0000	
	072	000	2	999	9	Lyon		143	6	0000	
	073	000	2			McCracken		145	4	0000	
				024	5	Paducah					58836
				999	9	Balance of county					99999
	074	000	2	999	9	McCreary		147	6	0000	
	075	000	2	999	9	McLean		149	6	0000	
	076	163	1			Madison		151	4	4280	
				026	6	Richmond					65226
				999	9	Balance of county					99999
	077	000	2	999	9	Magoffin		153	6	0000	
	078	000	2	999	9	Marion		155	6	0000	
	079	000	2	999	9	Marshall		157	5	0000	
	080	000	2	999	9	Martin		159	6	0000	
	081	000	2	999	9	Mason		161	6	0000	
	082	000	2	999	9	Meade		163	6	0000	
	083	000	2	999	9	Menifee		165	6	0000	
	084	000	2	999	9	Mercer		167	6	0000	
	085	000	2	999	9	Metcalfe		169	6	0000	
	086	000	2	999	9	Monroe		171	6	0000	
	087	000	2	999	9	Montgomery		173	6	0000	
	088	000	2	999	9	Morgan		175	6	0000	
	089	000	2	999	9	Muhlenberg		177	5	0000	
	090	000	2	999	9	Nelson		179	5	0000	
	091	000	2	999	9	Nicholas		181	6	0000	
	092	000	2	999	9	Ohio		183	6	0000	
	093	169	1	999	9	Oldham		185	5	4520	
	094	000	2	999	9	Owen		187	6	0000	
	095	000	2	999	9	Owsley		189	6	0000	
	096	057	1	999	9	Pendleton		191	6	1640	
	097	000	2	999	9	Perry		193	5	0000	
	098	000	2	999	9	Pike		195	4	0000	
	099	000	2	999	9	Powell		197	6	0000	
	100	000	2			Pulaski		199	5	0000	
				029	6	Somerset					71688
				999	9	Balance of county					99999
	101	000	2	999	9	Robertson		201	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
18						Kentucky	21				
	102	000	2	999	9	Rockcastle		203	6	0000	
	103	000	2	999	9	Rowan		205	6	0000	
	104	000	2	999	9	Russell		207	6	0000	
	105	163	1			Scott		209	6	4280	
				010	6	Georgetown					30700
				999	9	Balance of county					99999
	106	000	2	999	9	Shelby		211	6	0000	
	107	000	2	999	9	Simpson		213	6	0000	
	108	000	2	999	9	Spencer		215	6	0000	
	109	000	2	999	9	Taylor		217	6	0000	
	110	000	2	999	9	Todd		219	6	0000	
	111	000	2	999	9	Trigg		221	6	0000	
	112	000	2	999	9	Trimble		223	6	0000	
	113	000	2	999	9	Union		225	6	0000	
	114	000	2			Warren		227	4	0000	
				002	5	Bowling Green					08902
				999	9	Balance of county					99999
	115	000	2	999	9	Washington		229	6	0000	
	116	000	2	999	9	Wayne		231	6	0000	
	117	000	2	999	9	Webster		233	6	0000	
	118	000	2	999	9	Whitley		235	5	0000	
	119	000	2	999	9	Wolfe		237	6	0000	
	120	163	1	999	9	Woodford		239	6	4280	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
19						Louisiana	22				
	001	151	1			Acadia	001	4		3880	
				008	6	Crowley					18650
				009	6	Eunice, part					24565
				999	9	Balance of parish					99999
	002	000	2	999	9	Allen	003	6		0000	
	003	024	1	999	9	Ascension	005	4		0760	
	004	000	2	999	9	Assumption	007	6		0000	
	005	000	2	999	9	Avoyelles	009	5		0000	
	006	000	2	999	9	Beauregard	011	5		0000	
	007	000	2	999	9	Bienville	013	6		0000	
	008	264	1			Bossier	015	4		7680	
				007	4	Bossier City					08920
				026	3	Shreveport, part					70000
				999	9	Balance of parish					99999
	009	264	1			Caddo	017	3		7680	
				026	3	Shreveport, part					70000
				999	9	Balance of parish					99999
	010	153	1			Calcasieu	019	3		3960	
				016	4	Lake Charles					41155
				028	6	Sulphur					73640
				999	9	Balance of parish					99999
	011	000	2	999	9	Caldwell	021	6		0000	
	012	000	2	999	9	Cameron	023	6		0000	
	013	000	2	999	9	Catahoula	025	6		0000	
	014	000	2	999	9	Claiborne	027	6		0000	
	015	000	2	999	9	Concordia	029	6		0000	
	016	000	2	999	9	De Soto	031	5		0000	
	017	024	1			East Baton Rouge	033	2		0760	
				003	6	Baker					03985
				005	3	Baton Rouge					05000
				999	9	Balance of parish					99999
	018	000	2	999	9	East Carroll	035	6		0000	
	019	000	2	999	9	East Feliciana	037	6		0000	
	020	000	2	999	9	Evangeline	039	5		0000	
	021	000	2	999	9	Franklin	041	6		0000	
	022	000	2	999	9	Grant	043	6		0000	
	023	000	2			Iberia	045	4		0000	
				021	5	New Iberia					54035
				999	9	Balance of parish					99999
	024	000	2	999	9	Iberville	047	5		0000	
	025	000	2	999	9	Jackson	049	6		0000	
	026	196	1			Jefferson	051	2		5560	
				010	6	Gretna					31915
				014	4	Kenner					39475
				031	6	Westwego					81165
				999	9	Balance of parish					99999
	027	000	2			Jefferson Davis	053	5		0000	
				013	6	Jennings					38355
				999	9	Balance of parish					99999
	028	151	1			Lafayette	055	3		3880	
				015	4	Lafayette					40735
				999	9	Balance of parish					99999
	029	126	1			Lafourche	057	4		3350	
				029	6	Thibodaux					75425
				999	9	Balance of parish					99999
	030	000	2	999	9	La Salle	059	6		0000	
	031	000	2			Lincoln	061	5		0000	
				025	6	Ruston					66655
				999	9	Balance of parish					99999
	032	024	1	999	9	Livingston	063	4		0760	
	033	000	2	999	9	Madison	065	6		0000	
	034	000	2			Morehouse	067	5		0000	
				004	6	Bastrop					04685
				999	9	Balance of parish					99999
	035	000	2			Natchitoches	069	5		0000	
				020	6	Natchitoches					53545
				999	9	Balance of parish					99999
	036	196	1	022	2	Orleans, coext. with New Orleans city	071	2		5560	55000
	037	187	1			Ouachita	073	3		5200	
				018	4	Monroe					51410
				030	6	West Monroe					80955
				999	9	Balance of parish					99999
	038	196	1	999	9	Plaquemines	075	5		5560	
	039	000	2	999	9	Pointe Coupee	077	6		0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
19						Louisiana	22				
	040	006	1			Rapides		079	3	0220	
				002	5	Alexandria					00975
				024	6	Pineville					60530
				999	9	Balance of parish					99999
	041	000	2	999	9	Red River		081	6	0000	
	042	000	2	999	9	Richland		083	6	0000	
	043	000	2	999	9	Sabine		085	6	0000	
	044	196	1	999	9	St. Bernard		087	4	5560	
	045	196	1	999	9	St. Charles		089	5	5560	
	046	000	2	999	9	St. Helena		091	6	0000	
	047	196	1	999	9	St. James		093	6	5560	
	048	196	1	999	9	St. John the Baptist		095	5	5560	
	049	151	1			St. Landry		097	4	3880	
				009	6	Eunice, part					24565
				023	6	Opelousas					58045
				999	9	Balance of parish					99999
	050	151	1	999	9	St. Martin		099	5	3880	
	051	000	2			St. Mary		101	4	0000	
				019	6	Morgan City					52040
				999	9	Balance of parish					99999
	052	196	1			St. Tammany		103	3	5560	
				027	6	Slidell					70805
				999	9	Balance of parish					99999
	053	000	2			Tangipahoa		105	4	0000	
				011	6	Hammond					32755
				999	9	Balance of parish					99999
	054	000	2	999	9	Tensas		107	6	0000	
	055	126	1			Terrebonne		109	4	3350	
				012	5	Houma					36255
				999	9	Balance of parish					99999
	056	000	2	999	9	Union		111	6	0000	
	057	000	2			Vermilion		113	4	0000	
				001	6	Abbeville					00100
				999	9	Balance of parish					99999
	058	000	2	999	9	Vernon		115	4	0000	
	059	000	2			Washington		117	5	0000	
				006	6	Bogalusa					08150
				999	9	Balance of parish					99999
	060	264	1			Webster		119	5	7680	
				017	6	Minden					50885
				999	9	Balance of parish					99999
	061	024	1	999	9	West Baton Rouge		121	6	0760	
	062	000	2	999	9	West Carroll		123	6	0000	
	063	000	2	999	9	West Feliciana		125	6	0000	
	064	000	2	999	9	Winn		127	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
20						Maine	23				
	001	162	1			Androscoggin	001	3	4243		
				001	6	Auburn					02060
				005	5	Lewiston					38740
				999	9	Balance of county					99999
	002	000	2			Aroostook	003	4	0000		
				007	6	Presque Isle					60825
				999	9	Balance of county					99999
	003	219	1			Cumberland	005	3	6403		
				006	4	Portland					60545
				009	6	South Portland					71990
				011	6	Westbrook					82105
				999	9	Balance of county					99999
	004	000	2	999	9	Franklin	007	5	0000		
	005	000	2	999	9	Hancock	009	5	0000		
	006	000	2			Kennebec	011	3	0000		
				002	6	Augusta					02100
				010	6	Waterville					80740
				999	9	Balance of county					99999
	007	000	2	999	9	Knox	013	5	0000		
	008	000	2	999	9	Lincoln	015	5	0000		
	009	000	2	999	9	Oxford	017	4	0000		
	010	022	1			Penobscot	019	3	0733		
				003	5	Bangor					02795
				999	9	Balance of county					99999
	011	000	2	999	9	Piscataquis	021	6	0000		
	012	000	2	999	9	Sagadahoc	023	5	0000		
	013	000	2	999	9	Somerset	025	5	0000		
	014	000	2	999	9	Waldo	027	5	0000		
	015	000	2	999	9	Washington	029	5	0000		
	016	000	2			York	031	3	0000		
				004	6	Biddeford					04860
				008	6	Saco					64675
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
21						Maryland	24				
	001	066	1			Allegany		001	4	1900	
				007	6	Cumberland					21325
				999	9	Balance of county					99999
	002	021	1			Anne Arundel		003	2	0720	
				002	5	Annapolis					01600
				999	9	Balance of county					99999
	003	021	1			Baltimore		005	1	0720	
	004	021	1			Baltimore city		510	1	0720	04000
	005	296	1			Calvert		009	4	8840	
	006	000	2			Caroline		011	5	0000	
	007	021	1			Carroll		013	3	0720	
				018	6	Westminster					83100
				999	9	Balance of county					99999
	008	304	1			Cecil		015	4	9160	
	009	296	1			Charles		017	3	8840	
	010	000	2			Dorchester		019	5	0000	
				005	6	Cambridge					12400
				999	9	Balance of county					99999
	011	296	1			Frederick		021	3	8840	
				008	5	Frederick					30325
				999	9	Balance of county					99999
	012	000	2			Garrett		023	5	0000	
	013	021	1			Harford		025	3	0720	
				001	6	Aberdeen					00125
				999	9	Balance of county					99999
	014	021	1			Howard		027	3	0720	
	015	000	2			Kent		029	6	0000	
	016	296	1			Montgomery		031	1	8840	
				009	5	Gaithersburg					31175
				015	5	Rockville					67675
				017	6	Takoma Park, part					76650
				999	9	Balance of county					99999
	017	296	1			Prince George's		033	1	8840	
				004	5	Bowie					08775
				006	6	College Park					18750
				010	6	Greenbelt					34775
				012	6	Hyattsville					41250
				013	6	Laurel					45900
				014	6	New Carrollton					55400
				017	6	Takoma Park, part					76650
				999	9	Balance of county					99999
	018	021	1			Queen Anne's		035	5	0720	
	019	000	2			St. Mary's		037	4	0000	
	020	000	2			Somerset		039	6	0000	
	021	000	2			Talbot		041	5	0000	
	022	119	1			Washington		043	3	3180	
				011	5	Hagerstown					36075
				999	9	Balance of county					99999
	023	000	2			Wicomico		045	4	0000	
				016	6	Salisbury					69925
				999	9	Balance of county					99999
	024	000	2			Worcester		047	5	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
22						Massachusetts	25				
	001	023	1			Barnstable	001	3		0743	
				008	5	Barnstable town					03635
				031	5	Falmouth town					23105
				999	9	Balance of county					99999
	002	218	1			Berkshire	003	3		6323	
				062	6	North Adams					46225
				067	5	Pittsfield					53960
				999	9	Balance of county					99999
	003	037	1			Bristol	005	1		1123	
				007	5	Attleboro					02690
				023	5	Dartmouth town					16425
				029	6	Fairhaven town					22130
				030	4	Fall River					23000
				059	4	New Bedford					45000
				064	5	North Attleborough town					46575
				077	6	Somerset town					62430
				083	5	Taunton					69170
				999	9	Balance of county					99999
	004	000	2	999	9	Dukes	007	6		0000	
	005	037	1			Essex	009	1		1123	
				003	6	Amesbury town					01185
				005	5	Andover town					01465
				010	5	Beverly					05595
				022	6	Danvers town					16250
				035	5	Gloucester					26150
				036	4	Haverhill					29405
				041	4	Lawrence					34550
				046	4	Lynn					37490
				047	6	Lynnfield town					37560
				049	6	Marblehead town					38400
				054	5	Methuen town					40675
				060	6	Newburyport					45245
				066	5	Peabody					52490
				074	5	Salem					59105
				075	5	Saugus town					60015
				082	6	Swampscott town					68645
				999	9	Balance of county					99999
	006	000	2	999	9	Franklin	011	4		0000	
	007	271	1			Hampden	013	2		8003	
				002	5	Agawam town					00800
				020	4	Chicopee					13660
				027	6	East Longmeadow town					19645
				038	5	Holyoke					30840
				044	6	Longmeadow town					36300
				079	3	Springfield					67000
				090	5	Westfield					76030
				091	5	West Springfield town					77850
				999	9	Balance of county					99999
	008	271	1			Hampshire	015	3		8003	
				004	5	Amherst town					01325
				026	6	Easthampton town					19330
				063	5	Northampton					46330
				999	9	Balance of county					99999
	009	037	1			Middlesex	017	0		1123	
				006	5	Arlington town					01605
				009	6	Belmont town					05070
				011	5	Billerica town					05805
				016	6	Burlington town					09840
				017	4	Cambridge					11000
				018	5	Chelmsford town					13135
				025	5	Dracut town					17475
				028	5	Everett					21990
				033	4	Framingham town					24925
				039	6	Hudson town					31540
				043	5	Lexington town					35215
				045	3	Lowell					37000
				048	4	Malden					37875
				050	5	Marlborough					38715
				051	6	Maynard town					39625
				052	4	Medford					39835
				053	5	Melrose					40115
				057	5	Natick town					43895
				061	4	Newton					45560
				071	6	Reading town					56130

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
22						Massachusetts	
	009					Middlesex, con.	25
				078	4	Somerville	017 0 1123 62535
				080	6	Stoneham town	67665
				084	5	Tewksbury town	69415
				085	6	Wakefield town	72215
				086	4	Waltham	72600
				087	5	Watertown town	73405
				095	6	Wilmington town	80230
				096	6	Winchester town	80510
				098	5	Woburn	81035
				999	9	Balance of county	99999
	010	000	2	999	9	Nantucket	019 6 0000
	011	037	1			Norfolk	021 1 1123
				013	5	Braintree town	07665
				015	4	Brookline town	09175
				024	6	Dedham town	16495
				037	6	Holbrook town	30455
				056	5	Milton town	41690
				058	5	Needham town	44105
				065	5	Norwood town	50250
				069	4	Quincy	55745
				070	5	Randolph town	55955
				081	5	Stoughton town	67945
				089	5	Wellesley town	74175
				092	6	Westwood town	78690
				093	4	Weymouth town	78865
				999	9	Balance of county	99999
	012	037	1			Plymouth	023 2 1123
				001	6	Abington town	00170
				014	4	Brockton	09000
				040	6	Hull town	31645
				068	5	Plymouth town	54310
				073	6	Rockland town	57775
				094	6	Whitman town	79530
				999	9	Balance of county	99999
	013	037	1			Suffolk	025 1 1123
				012	1	Boston	07000
				019	5	Chelsea	13205
				072	5	Revere	56585
				097	6	Winthrop town	80930
	014	037	1			Worcester	027 1 1123
				021	6	Clinton town	14395
				032	5	Fitchburg	23875
				034	6	Gardner	25485
				042	5	Leominster	35075
				055	5	Milford town	41165
				076	6	Shrewsbury town	61800
				088	6	Webster town	73895
				099	3	Worcester	82000
				999	9	Balance of county	99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
23						Michigan	26				
	001	000	2	999	9	Alcona		001	6	0000	
	002	000	2	999	9	Alger		003	6	0000	
	003	112	1			Allegan		005	4	3000	
				051	5	Holland, part					38640
				999	9	Balance of county					99999
	004	000	2			Alpena		007	5	0000	
				004	6	Alpena					01740
				999	9	Balance of county					99999
	005	000	2	999	9	Antrim		009	6	0000	
	006	000	2	999	9	Arenac		011	6	0000	
	007	000	2	999	9	Baraga		013	6	0000	
	008	000	2	999	9	Barry		015	4	0000	
	009	240	1			Bay		017	3	6960	
				007	6	Bangor township					05120
				009	5	Bay City					06020
				064	5	Midland, part					53780
				999	9	Balance of county					99999
	010	000	2	999	9	Benzie		019	6	0000	
	011	027	1			Berrien		021	3	0870	
				010	6	Benton Harbor					07520
				071	6	Niles, part					57760
				999	9	Balance of county					99999
	012	000	2	999	9	Branch		023	5	0000	
	013	143	1			Calhoun		025	3	3720	
				002	6	Albion					00980
				008	4	Battle Creek					05920
				999	9	Balance of county					99999
	014	000	2			Cass		027	5	0000	
				071	6	Niles, part					57760
				999	9	Balance of county					99999
	015	000	2	999	9	Charlevoix		029	6	0000	
	016	000	2	999	9	Cheboygan		031	6	0000	
	017	000	2			Chippewa		033	5	0000	
				091	6	Sault Ste. Marie					71740
				999	9	Balance of county					99999
	018	000	2	999	9	Clare		035	6	0000	
	019	156	1	999	9	Clinton		037	4	4040	
	020	000	2	999	9	Crawford		039	6	0000	
	021	000	2			Delta		041	5	0000	
				030	6	Escanaba					26360
				999	9	Balance of county					99999
	022	000	2	999	9	Dickinson		043	5	0000	
	023	156	1			Eaton		045	4	4040	
				024	5	Delta township					21520
				057	3	Lansing, part					46000
				999	9	Balance of county					99999
	024	000	2	999	9	Emmet		047	5	0000	
	025	093	1			Genesee		049	2	2640	
				016	5	Burton					12060
				034	3	Flint					29000
				035	5	Flint township					29020
				039	5	Grand Blanc township					33300
				067	5	Mount Morris township					55980
				999	9	Balance of county					99999
	026	000	2	999	9	Gladwin		051	6	0000	
	027	000	2	999	9	Gogebic		053	6	0000	
	028	000	2			Grand Traverse		055	4	0000	
				098	6	Traverse City, part					80340
				999	9	Balance of county					99999
	029	000	2	999	9	Gratiot		057	5	0000	
	030	000	2	999	9	Hillsdale		059	5	0000	
	031	000	2	999	9	Houghton		061	5	0000	
	032	000	2	999	9	Huron		063	5	0000	
	033	156	1			Ingham		065	2	4040	
				028	4	East Lansing					24120
				057	3	Lansing, part					46000
				063	5	Meridian township					53140
				999	9	Balance of county					99999
	034	000	2	999	9	Ionia		067	4	0000	
	035	000	2	999	9	Iosco		069	5	0000	
	036	000	2	999	9	Iron		071	6	0000	
	037	000	2			Isabella		073	4	0000	
				068	6	Mount Pleasant					56020
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
23						Michigan	26				
	038	132	1			Jackson		075	3	3520	
				053	5	Jackson					41420
				999	9	Balance of county					99999
	039	143	1			Kalamazoo		077	3	3720	
				054	4	Kalamazoo					42160
				055	6	Kalamazoo township					42180
				079	5	Portage					65560
				999	9	Balance of county					99999
	040	000	2			Kalkaska		079	6	0000	
	041	112	1			Kent		081	1	3000	
				027	6	East Grand Rapids					23980
				041	3	Grand Rapids					34000
				042	6	Grandville					34160
				056	5	Kentwood					42820
				101	6	Walker					82960
				109	4	Wyoming					88940
				999	9	Balance of county					99999
	042	000	2			Keweenaw		083	6	0000	
	043	000	2			Lake		085	6	0000	
	044	076	1			Lapeer		087	4	2160	
	045	000	2			Leelanau		089	6	0000	
				098	6	Traverse City, part					80340
				999	9	Balance of county					99999
	046	011	1			Lenawee		091	4	0440	
				001	6	Adrian					00440
				999	9	Balance of county					99999
	047	011	1			Livingston		093	3	0440	
	048	000	2			Luce		095	6	0000	
	049	000	2			Mackinac		097	6	0000	
	050	076	1			Macomb		099	1	2160	
				019	5	Chesterfield township					15340
				021	4	Clinton township					16520
				026	5	East Detroit					23920
				036	6	Fraser					30420
				048	6	Harrison township					36820
				066	6	Mount Clemens					55820
				086	4	Roseville					69800
				090	4	St. Clair Shores					70760
				092	5	Shelby township					72820
				095	3	Sterling Heights					76460
				102	3	Warren					84000
				999	9	Balance of county					99999
	051	000	2			Manistee		101	6	0000	
	052	000	2			Marquette		103	4	0000	
				061	6	Marquette					51900
				999	9	Balance of county					99999
	053	000	2			Mason		105	5	0000	
	054	000	2			Mecosta		107	5	0000	
				013	6	Big Rapids					08300
				999	9	Balance of county					99999
	055	000	2			Menominee		109	6	0000	
	056	240	1			Midland		111	4	6960	
				064	5	Midland, part					53780
				999	9	Balance of county					99999
	057	000	2			Missaukee		113	6	0000	
	058	076	1			Monroe		115	3	2160	
				065	6	Monroe					55020
				999	9	Balance of county					99999
	059	000	2			Montcalm		117	4	0000	
	060	000	2			Montmorency		119	6	0000	
	061	112	1			Muskegon		121	3	3000	
				069	5	Muskegon					56320
				070	6	Muskegon Heights					56360
				073	6	Norton Shores					59140
				999	9	Balance of county					99999
	062	000	2			Newaygo		123	5	0000	
	063	076	1			Oakland		125	0	2160	
				006	6	Auburn Hills					04105
				011	6	Berkley					07660
				012	6	Beverly Hills village					08160
				014	6	Birmingham					08640
				015	5	Bloomfield township					09100
				020	6	Clawson					16160
				031	6	Farmington					27380

Vital Statistics Codes				FIPS Codes				Place		
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St		Cnty	P/S	P/MSA
23						Michigan	26			
	063					Oakland, con.	125	0		2160
				032	4	Farmington Hills				27440
				033	5	Ferndale				27880
				049	6	Hazel Park				37420
				060	5	Madison Heights				50560
				074	5	Novi				59440
				075	5	Oak Park				59920
				078	4	Pontiac				65440
				084	4	Rochester Hills				69035
				087	4	Royal Oak				70040
				093	4	Southfield				74900
				100	4	Troy				80700
				103	4	Waterford township				84240
				105	4	West Bloomfield township				85490
				999	9	Balance of county				99999
	064	000	2	999	9	Oceana	127	6		0000
	065	000	2	999	9	Ogemaw	129	6		0000
	066	000	2	999	9	Ontonagon	131	6		0000
	067	000	2	999	9	Osceola	133	6		0000
	068	000	2	999	9	Oscoda	135	6		0000
	069	000	2	999	9	Otsego	137	6		0000
	070	112	1			Ottawa	139	3		3000
				038	5	Georgetown township				31880
				040	6	Grand Haven				33340
				051	5	Holland, part				38640
				999	9	Balance of county				99999
	071	000	2	999	9	Presque Isle	141	6		0000
	072	000	2	999	9	Roscommon	143	6		0000
	073	240	1			Saginaw	145	3		6960
				088	4	Saginaw				70520
				089	5	Saginaw township				70540
				999	9	Balance of county				99999
	074	076	1			St. Clair	147	3		2160
				080	5	Port Huron				65820
				999	9	Balance of county				99999
	075	000	2			St. Joseph	149	4		0000
				096	6	Sturgis				76960
				999	9	Balance of county				99999
	076	000	2	999	9	Sanilac	151	5		0000
	077	000	2	999	9	Schoolcraft	153	6		0000
	078	000	2			Shiawassee	155	4		0000
				076	6	Owosso				61940
				999	9	Balance of county				99999
	079	000	2	999	9	Tuscola	157	4		0000
	080	143	1	999	9	Van Buren	159	4		3720
	081	011	1			Washtenaw	161	2		0440
				005	3	Ann Arbor				03000
				110	6	Ypsilanti				89140
				111	5	Ypsilanti township				89160
				999	9	Balance of county				99999
	082	076	1			Wayne	163	0		2160
				003	5	Allen Park				01380
				018	4	Canton township				13120
				022	4	Dearborn				21000
				023	4	Dearborn Heights				21020
				025	0	Detroit				22000
				029	6	Ecorse				24740
				037	5	Garden City				31420
				043	6	Grosse Pointe Farms				35520
				044	6	Grosse Pointe Park				35540
				045	6	Grosse Pointe Woods				35580
				046	6	Hamtramck				36280
				047	6	Harper Woods				36700
				050	6	Highland Park				38180
				052	5	Inkster				40680
				058	5	Lincoln Park				47800
				059	3	Livonia				49000
				062	6	Melvindale				52940
				072	6	Northville township				59000
				077	6	Plymouth township				65088
				081	4	Redford township				67660
				082	6	River Rouge				68760
				083	6	Riverview				68880
				085	6	Romulus				69420

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
23						Michigan	26				
	082					Wayne, con.	163	0		2160	
				094	5	Southgate					74960
				097	4	Taylor					79000
				099	6	Trenton					80420
				104	6	Wayne					84940
				106	4	Westland					86000
				107	6	Woodhaven					88380
				108	5	Wyandotte					88900
				999	9	Balance of county					99999
	083	000	2			Wexford	165	5		0000	
				017	6	Cadillac					12320
				999	9	Balance of county					99999

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
24						Minnesota	27				
	001	000	2	999	9	Aitkin	001	6		0000	
	002	183	1			Anoka	003	3		5120	
				002	6	Andover					01486
				003	6	Anoka					01720
				007	5	Blaine, part					06382
				017	6	Columbia Heights					12700
				018	4	Coon Rapids					13114
				029	5	Fridley					22814
				055	6	Ramsey					53026
				999	9	Balance of county					99999
	003	000	2	999	9	Becker	005	5		0000	
	004	000	2			Beltrami	007	5		0000	
				006	6	Bemidji					05068
				999	9	Balance of county					99999
	005	241	1			Benton	009	5		6980	
				061	5	St. Cloud, part					56896
				999	9	Balance of county					99999
	006	000	2	999	9	Big Stone	011	6		0000	
	007	000	2			Blue Earth	013	4		0000	
				037	5	Mankato, part					39878
				049	6	North Mankato, part					47068
				999	9	Balance of county					99999
	008	000	2			Brown	015	5		0000	
				047	6	New Ulm					46042
				999	9	Balance of county					99999
	009	000	2			Carlton	017	5		0000	
				016	6	Cloquet					12160
				999	9	Balance of county					99999
	010	183	1			Carver	019	5		5120	
				014	6	Chanhassen, part					10918
				015	6	Chaska					10972
				999	9	Balance of county					99999
	011	000	2	999	9	Cass	021	6		0000	
	012	000	2	999	9	Chippewa	023	6		0000	
	013	183	1	999	9	Chisago	025	5		5120	
	014	090	1			Clay	027	4		2520	
				043	5	Moorhead					43864
				999	9	Balance of county					99999
	015	000	2	999	9	Clearwater	029	6		0000	
	016	000	2	999	9	Cook	031	6		0000	
	017	000	2	999	9	Cottonwood	033	6		0000	
	018	000	2			Crow Wing	035	5		0000	
				009	6	Brainerd					07300
				999	9	Balance of county					99999
	019	183	1			Dakota	037	2		5120	
				004	5	Apple Valley					01900
				012	4	Burnsville					08794
				022	5	Eagan					17288
				031	6	Hastings, part					27530
				035	6	Inver Grove Heights					31076
				036	6	Lakeville					35180
				048	6	Northfield, part					46924
				066	6	South St. Paul					61510
				069	6	West St. Paul					69718
				999	9	Balance of county					99999
	020	000	2	999	9	Dodge	039	6		0000	
	021	000	2	999	9	Douglas	041	5		0000	
	022	000	2	999	9	Faribault	043	6		0000	
	023	000	2	999	9	Fillmore	045	6		0000	
	024	000	2			Freeborn	047	5		0000	
				001	6	Albert Lea					00694
				999	9	Balance of county					99999
	025	000	2			Goodhue	049	5		0000	
				056	6	Red Wing					53620
				999	9	Balance of county					99999
	026	000	2	999	9	Grant	051	6		0000	
	027	183	1			Hennepin	053	0		5120	
				008	4	Bloomington					06616
				010	5	Brooklyn Center					07948
				011	4	Brooklyn Park					07966
				013	6	Champlin					10846
				014	6	Chanhassen, part					10918
				020	6	Crystal					14158
				023	5	Eden Prairie					18116

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
24						Minnesota	27				
	027					Hennepin, con.	053	0		5120	
				024	5	Edina					18188
				030	6	Golden Valley					24308
				033	6	Hopkins					30140
				038	5	Maple Grove					40166
				041	2	Minneapolis					43000
				042	5	Minnetonka					43252
				046	6	New Hope					45628
				053	4	Plymouth					51730
				057	5	Richfield					54214
				058	6	Robbinsdale					54808
				062	5	St. Louis Park					57220
				999	9	Balance of county					99999
	028	150	1	999	9	Houston	055	6		3870	
	029	000	2	999	9	Hubbard	057	6		0000	
	030	183	1	999	9	Isanti	059	5		5120	
	031	000	2	999	9	Itasca	061	5		0000	
	032	000	2	999	9	Jackson	063	6		0000	
	033	000	2	999	9	Kanabec	065	6		0000	
	034	000	2			Kandiyohi	067	5		0000	
				071	6	Willmar					70420
				999	9	Balance of county					99999
	035	000	2	999	9	Kittson	069	6		0000	
	036	000	2	999	9	Koochiching	071	6		0000	
	037	000	2	999	9	Lac qui Parle	073	6		0000	
	038	000	2	999	9	Lake	075	6		0000	
	039	000	2	999	9	Lake of the Woods	077	6		0000	
	040	000	2	999	9	Le Sueur	079	6		0000	
	041	000	2	999	9	Lincoln	081	6		0000	
	042	000	2			Lyon	083	6		0000	
				040	6	Marshall					40688
				999	9	Balance of county					99999
	043	000	2			McLeod	085	5		0000	
				034	6	Hutchinson					30644
				999	9	Balance of county					99999
	044	000	2	999	9	Mahnomen	087	6		0000	
	045	000	2	999	9	Marshall	089	6		0000	
	046	000	2			Martin	091	6		0000	
				026	6	Fairmont					20330
				999	9	Balance of county					99999
	047	000	2	999	9	Meeker	093	6		0000	
	048	000	2	999	9	Mille Lacs	095	6		0000	
	049	000	2	999	9	Morrison	097	5		0000	
	050	000	2			Mower	099	5		0000	
				005	6	Austin					02908
				999	9	Balance of county					99999
	051	000	2	999	9	Murray	101	6		0000	
	052	000	2			Nicollet	103	5		0000	
				037	5	Mankato, part					39878
				049	6	North Mankato, part					47068
				999	9	Balance of county					99999
	053	000	2	999	9	Nobles	105	6		0000	
	054	000	2	999	9	Norman	107	6		0000	
	055	235	1			Olmsted	109	3		6820	
				059	4	Rochester					54880
				999	9	Balance of county					99999
	056	000	2			Otter Tail	111	4		0000	
				028	6	Fergus Falls					20906
				999	9	Balance of county					99999
	057	000	2	999	9	Pennington	113	6		0000	
	058	000	2	999	9	Pine	115	6		0000	
	059	000	2	999	9	Pipestone	117	6		0000	
	060	111	1	999	9	Polk	119	5		2985	
	061	000	2	999	9	Pope	121	6		0000	
	062	183	1			Ramsey	123	2		5120	
				007	5	Blaine, part					06382
				039	5	Maplewood					40382
				044	6	Mounds View					44530
				045	6	New Brighton					45430
				050	6	North St. Paul					47284
				060	5	Roseville					55852
				063	2	St. Paul					58000
				065	6	Shoreview					59998
				068	6	Vadnais Heights					66460

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
24						Minnesota	27				
	062			070	6	Ramsey, con.	123	2	5120		
				999	9	White Bear Lake, part					69970
				999	9	Balance of county					99999
	063	000	2	999	9	Red Lake	125	6	0000		
	064	000	2	999	9	Redwood	127	6	0000		
	065	000	2	999	9	Renville	129	6	0000		
	066	000	2			Rice	131	5	0000		
				027	6	Faribault					20546
				048	6	Northfield, part					46924
				999	9	Balance of county					99999
	067	000	2	999	9	Rock	133	6	0000		
	068	000	2	999	9	Roseau	135	6	0000		
	069	080	1			St. Louis	137	3	2240		
				021	4	Duluth					17000
				032	6	Hibbing					28790
				999	9	Balance of county					99999
	070	183	1			Scott	139	4	5120		
				054	6	Prior Lake					52594
				064	6	Shakopee					59350
				999	9	Balance of county					99999
	071	183	1			Sherburne	141	5	5120		
				025	6	Elk River					18674
				061	5	St. Cloud, part					56896
				999	9	Balance of county					99999
	072	000	2	999	9	Sibley	143	6	0000		
	073	241	1			Stearns	145	3	6980		
				061	5	St. Cloud, part					56896
				999	9	Balance of county					99999
	074	000	2			Steele	147	5	0000		
				052	6	Owatonna					49300
				999	9	Balance of county					99999
	075	000	2	999	9	Stevens	149	6	0000		
	076	000	2	999	9	Swift	151	6	0000		
	077	000	2	999	9	Todd	153	6	0000		
	078	000	2	999	9	Traverse	155	6	0000		
	079	000	2	999	9	Wabasha	157	6	0000		
	080	000	2	999	9	Wadena	159	6	0000		
	081	000	2	999	9	Waseca	161	6	0000		
	082	183	1			Washington	163	3	5120		
				019	6	Cottage Grove					13456
				031	6	Hastings, part					27530
				051	6	Oakdale					47680
				067	6	Stillwater					62824
				070	6	White Bear Lake, part					69970
				073	6	Woodbury					71428
				999	9	Balance of county					99999
	083	000	2	999	9	Watonwan	165	6	0000		
	084	000	2	999	9	Wilkin	167	6	0000		
	085	000	2			Winona	169	5	0000		
				072	5	Winona					71032
				999	9	Balance of county					99999
	086	183	1	999	9	Wright	171	4	5120		
	087	000	2	999	9	Yellow Medicine	173	6	0000		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
25						Mississippi	28				
	001	000	2			Adams	001	5		0000	
				023	6	Natchez					50440
				999	9	Balance of county					99999
	002	000	2			Alcorn	003	5		0000	
				009	6	Corinth					15700
				999	9	Balance of county					99999
	003	000	2			Amite	005	6		0000	
	004	000	2			Attala	007	6		0000	
	005	000	2			Benton	009	6		0000	
	006	000	2			Bolivar	011	5		0000	
				006	6	Cleveland					14260
				999	9	Balance of county					99999
	007	000	2			Calhoun	013	6		0000	
	008	000	2			Carroll	015	6		0000	
	009	000	2			Chickasaw	017	6		0000	
	010	000	2			Choctaw	019	6		0000	
	011	000	2			Claiborne	021	6		0000	
	012	000	2			Clarke	023	6		0000	
	013	000	2			Clay	025	6		0000	
	014	000	2			Coahoma	027	5		0000	
				005	6	Clarksdale					13820
				999	9	Balance of county					99999
	015	000	2			Copiah	029	5		0000	
	016	000	2			Covington	031	6		0000	
	017	178	1			De Soto	033	4		4920	
				030	6	Southaven					69280
				999	9	Balance of county					99999
	018	123	1			Forrest	035	4		3285	
				015	5	Hattiesburg, part					31020
				999	9	Balance of county					99999
	019	000	2			Franklin	037	6		0000	
	020	000	2			George	039	6		0000	
	021	000	2			Greene	041	6		0000	
	022	000	2			Grenada	043	6		0000	
				013	6	Grenada					29460
				999	9	Balance of county					99999
	023	030	1			Hancock	045	5		0920	
	024	030	1			Harrison	047	3		0920	
				001	5	Biloxi					06220
				014	5	Gulfport					29700
				019	6	Long Beach					41680
				999	9	Balance of county					99999
	025	133	1			Hinds	049	2		3560	
				007	6	Clinton					14420
				017	3	Jackson, part					36000
				999	9	Balance of county					99999
	026	000	2			Holmes	051	6		0000	
	027	000	2			Humphreys	053	6		0000	
	028	000	2			Issaquena	055	6		0000	
	029	000	2			Itawamba	057	6		0000	
	030	030	1			Jackson	059	3		0920	
				010	6	Gautier					26860
				022	6	Moss Point					49240
				024	6	Ocean Springs					53520
				026	5	Pascagoula					55360
				999	9	Balance of county					99999
	031	000	2			Jasper	061	6		0000	
	032	000	2			Jefferson	063	6		0000	
	033	000	2			Jefferson Davis	065	6		0000	
	034	000	2			Jones	067	4		0000	
				018	6	Laurel					39640
				999	9	Balance of county					99999
	035	000	2			Kemper	069	6		0000	
	036	000	2			Lafayette	071	5		0000	
				025	6	Oxford					54840
				999	9	Balance of county					99999
	037	123	1			Lamar	073	5		3285	
				015	5	Hattiesburg, part					31020
				999	9	Balance of county					99999
	038	000	2			Lauderdale	075	4		0000	
				021	5	Meridian					46640
				999	9	Balance of county					99999
	039	000	2			Lawrence	077	6		0000	
	040	000	2			Leake	079	6		0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
25						Mississippi	28				
	041	000	2			Lee	081	4	0000		74840
				032	5	Tupelo					99999
				999	9	Balance of county					99999
	042	000	2			Leflore	083	5	0000		29340
				012	6	Greenwood					99999
				999	9	Balance of county					99999
	043	000	2			Lincoln	085	5	0000		08820
				003	6	Brookhaven					99999
				999	9	Balance of county					99999
	044	000	2			Lowndes	087	4	0000		15380
				008	6	Columbus					99999
				999	9	Balance of county					99999
	045	133	1			Madison	089	4	3560		11100
				004	6	Canton					36000
				017	3	Jackson, part					62520
				029	6	Ridgeland					99999
				999	9	Balance of county					99999
	046	000	2			Marion	091	5	0000		
	047	000	2			Marshall	093	5	0000		
	048	000	2			Monroe	095	5	0000		
	049	000	2			Montgomery	097	6	0000		
	050	000	2			Neshoba	099	6	0000		
	051	000	2			Newton	101	6	0000		
	052	000	2			Noxubee	103	6	0000		
	053	000	2			Oktibbeha	105	5	0000		
				031	6	Starkville					70240
				999	9	Balance of county					99999
	054	000	2			Panola	107	5	0000		
	055	000	2			Pearl River	109	5	0000		
				028	6	Picayune					57160
				999	9	Balance of county					99999
	056	000	2			Perry	111	6	0000		
	057	000	2			Pike	113	5	0000		
				020	6	McComb					43280
				999	9	Balance of county					99999
	058	000	2			Pontotoc	115	6	0000		
	059	000	2			Prentiss	117	6	0000		
	060	000	2			Quitman	119	6	0000		
	061	133	1			Rankin	121	4	3560		
				002	6	Brandon					08300
				017	3	Jackson, part					36000
				027	6	Pearl					55760
				999	9	Balance of county					99999
	062	000	2			Scott	123	6	0000		
	063	000	2			Sharkey	125	6	0000		
	064	000	2			Simpson	127	6	0000		
	065	000	2			Smith	129	6	0000		
	066	000	2			Stone	131	6	0000		
	067	000	2			Sunflower	133	5	0000		
				016	6	Indianola					34740
				999	9	Balance of county					99999
	068	000	2			Tallahatchie	135	6	0000		
	069	000	2			Tate	137	6	0000		
	070	000	2			Tippah	139	6	0000		
	071	000	2			Tishomingo	141	6	0000		
	072	000	2			Tunica	143	6	0000		
	073	000	2			Union	145	6	0000		
	074	000	2			Walthall	147	6	0000		
	075	000	2			Warren	149	5	0000		
				033	6	Vicksburg					76720
				999	9	Balance of county					99999
	076	000	2			Washington	151	4	0000		
				011	5	Greenville					29180
				999	9	Balance of county					99999
	077	000	2			Wayne	153	6	0000		
	078	000	2			Webster	155	6	0000		
	079	000	2			Wilkinson	157	6	0000		
	080	000	2			Winston	159	6	0000		
	081	000	2			Yalobusha	161	6	0000		
	082	000	2			Yazoo	163	5	0000		
				034	6	Yazoo City					81520
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
26						Missouri	29				
	001	000	2			Adair	001	6	0000		
				030	6	Kirksville					39026
				999	9	Balance of county					99999
	002	242	1	999	9	Andrew	003	6	7000		
	003	000	2	999	9	Atchison	005	6	0000		
	004	000	2			Audrain	007	6	0000		
				037	6	Mexico					47648
				999	9	Balance of county					99999
	005	000	2	999	9	Barry	009	5	0000		
	006	000	2	999	9	Barton	011	6	0000		
	007	000	2	999	9	Bates	013	6	0000		
	008	000	2	999	9	Benton	015	6	0000		
	009	000	2	999	9	Bollinger	017	6	0000		
	010	061	1			Boone	019	3	1740		
				012	4	Columbia					15670
				999	9	Balance of county					99999
	011	242	1			Buchanan	021	4	7000		
				047	4	St. Joseph					64550
				999	9	Balance of county					99999
	012	000	2			Butler	023	5	0000		
				041	6	Poplar Bluff					59096
				999	9	Balance of county					99999
	013	000	2	999	9	Caldwell	025	6	0000		
	014	000	2			Callaway	027	5	0000		
				019	6	Fulton					26182
				025	5	Jefferson City, part					37000
				999	9	Balance of county					99999
	015	000	2	999	9	Camden	029	5	0000		
	016	000	2			Cape Girardeau	031	4	0000		
				008	5	Cape Girardeau					11242
				999	9	Balance of county					99999
	017	000	2	999	9	Carroll	033	6	0000		
	018	000	2	999	9	Carter	035	6	0000		
	019	145	1			Cass	037	4	3760		
				004	6	Belton					04384
				028	2	Kansas City, part					38000
				032	5	Lee's Summit, part					41348
				999	9	Balance of county					99999
	020	000	2	999	9	Cedar	039	6	0000		
	021	000	2	999	9	Chariton	041	6	0000		
	022	270	1	999	9	Christian	043	5	7920		
	023	000	2	999	9	Clark	045	6	0000		
	024	145	1			Clay	047	3	3760		
				015	6	Excelsior Springs, part					23086
				020	5	Gladstone					27190
				024	3	Independence, part					35000
				028	2	Kansas City, part					38000
				033	6	Liberty					42032
				999	9	Balance of county					99999
	025	145	1	999	9	Clinton	049	6	3760		
	026	000	2			Cole	051	4	0000		
				025	5	Jefferson City, part					37000
				999	9	Balance of county					99999
	027	000	2	999	9	Cooper	053	6	0000		
	028	000	2	999	9	Crawford	055	6	0000		
	029	000	2	999	9	Dade	057	6	0000		
	030	000	2	999	9	Dallas	059	6	0000		
	031	000	2	999	9	Daviess	061	6	0000		
	032	000	2	999	9	De Kalb	063	6	0000		
	033	000	2	999	9	Dent	065	6	0000		
	034	000	2	999	9	Douglas	067	6	0000		
	035	000	2			Dunklin	069	5	0000		
				029	6	Kennett					38306
				999	9	Balance of county					99999
	036	243	1			Franklin	071	4	7040		
				055	6	Washington					77416
				999	9	Balance of county					99999
	037	000	2	999	9	Gasconade	073	6	0000		
	038	000	2	999	9	Gentry	075	6	0000		
	039	270	1			Greene	077	3	7920		
				052	3	Springfield					70000
				999	9	Balance of county					99999
	040	000	2	999	9	Grundy	079	6	0000		
	041	000	2	999	9	Harrison	081	6	0000		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
26						Missouri	29				
	042	000	2	999	9	Henry		083	6	0000	
	043	000	2	999	9	Hickory		085	6	0000	
	044	000	2	999	9	Holt		087	6	0000	
	045	000	2	999	9	Howard		089	6	0000	
	046	000	2	999	9	Howell		091	5	0000	
	047	000	2	999	9	Iron		093	6	0000	
	048	145	1			Jackson		095	1	3760	
				006	5	Blue Springs					06652
				021	6	Grandview					28324
				024	3	Independence, part					35000
				028	2	Kansas City, part					38000
				032	5	Lee's Summit, part					41348
				042	5	Raytown					60788
				999	9	Balance of county					99999
	049	142	1			Jasper		097	4	3710	
				009	6	Carthage					11656
				027	5	Joplin, part					37592
				999	9	Balance of county					99999
	050	243	1			Jefferson		099	3	7040	
				001	6	Arnold					01972
				999	9	Balance of county					99999
	051	000	2			Johnson		101	5	0000	
				054	6	Warrensburg					77092
				999	9	Balance of county					99999
	052	000	2	999	9	Knox		103	6	0000	
	053	000	2	999	9	Laclede		105	5	0000	
	054	145	1	999	9	Lafayette		107	5	3760	
	055	000	2	999	9	Lawrence		109	5	0000	
	056	000	2	999	9	Lewis		111	6	0000	
	057	243	1	999	9	Lincoln		113	5	7040	
	058	000	2	999	9	Linn		115	6	0000	
	059	000	2	999	9	Livingston		117	6	0000	
	060	000	2	999	9	McDonald		119	6	0000	
	061	000	2	999	9	Macon		121	6	0000	
	062	000	2	999	9	Madison		123	6	0000	
	063	000	2	999	9	Maries		125	6	0000	
	064	000	2			Marion		127	5	0000	
				022	6	Hannibal, part					30214
				999	9	Balance of county					99999
	065	000	2	999	9	Mercer		129	6	0000	
	066	000	2	999	9	Miller		131	6	0000	
	067	000	2	999	9	Mississippi		133	6	0000	
	068	000	2	999	9	Moniteau		135	6	0000	
	069	000	2	999	9	Monroe		137	6	0000	
	070	000	2	999	9	Montgomery		139	6	0000	
	071	000	2	999	9	Morgan		141	6	0000	
	072	000	2			New Madrid		143	6	0000	
				051	6	Sikeston, part					67790
				999	9	Balance of county					99999
	073	142	1			Newton		145	5	3710	
				027	5	Joplin, part					37592
				999	9	Balance of county					99999
	074	000	2			Nodaway		147	6	0000	
				036	6	Maryville					46640
				999	9	Balance of county					99999
	075	000	2	999	9	Oregon		149	6	0000	
	076	000	2	999	9	Osage		151	6	0000	
	077	000	2	999	9	Ozark		153	6	0000	
	078	000	2	999	9	Pemiscot		155	6	0000	
	079	000	2	999	9	Perry		157	6	0000	
	080	000	2			Pettis		159	5	0000	
				050	6	Sedalia					66440
				999	9	Balance of county					99999
	081	000	2			Phelps		161	5	0000	
				044	6	Rolla					62912
				999	9	Balance of county					99999
	082	000	2	999	9	Pike		163	6	0000	
	083	145	1			Platte		165	4	3760	
				028	2	Kansas City, part					38000
				999	9	Balance of county					99999
	084	000	2	999	9	Polk		167	6	0000	
	085	000	2	999	9	Pulaski		169	5	0000	
	086	000	2	999	9	Putnam		171	6	0000	
	087	000	2			Ralls		173	6	0000	
				022	6	Hannibal, part					30214

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
26						Missouri	29				
	087					Ralls, con.		173	6	0000	
				999	9	Balance of county					99999
	088	000	2			Randolph		175	6	0000	
				038	6	Moberly					49034
				999	9	Balance of county					99999
	089	145	1			Ray		177	6	3760	
				015	6	Excelsior Springs, part					23086
				999	9	Balance of county					99999
	090	000	2			Reynolds		179	6	0000	
	091	000	2			Ripley		181	6	0000	
	092	243	1			St. Charles		183	3	7040	
				039	6	O'Fallon					54074
				046	4	St. Charles					64082
				049	5	St. Peters					65126
				999	9	Balance of county					99999
	093	000	2			St. Clair		185	6	0000	
	094	000	2			Ste. Genevieve		186	6	0000	
	095	000	2			St. Francois		187	5	0000	
				016	6	Farmington					23752
				999	9	Balance of county					99999
	096	243	1			St. Louis		189	1	7040	
				002	6	Ballwin					03160
				003	6	Bellefontaine Neighbors					04222
				005	6	Berkeley					04906
				007	6	Bridgeton					08398
				010	5	Chesterfield					13600
				011	6	Clayton					14572
				013	6	Crestwood					17218
				014	6	Creve Coeur					17272
				017	6	Ferguson					23986
				018	4	Florissant					24778
				023	6	Hazelwood					31276
				026	6	Jennings					37178
				031	5	Kirkwood					39044
				035	5	Maryland Heights					46586
				040	6	Overland					55550
				043	6	Richmond Heights					61706
				045	6	St. Ann					63956
				053	5	University City					75220
				056	6	Webster Groves					78154
				999	9	Balance of county					99999
	097	243	1	048	2	St. Louis city		510	2	7040	65000
	098	000	2			Saline		195	6	0000	
				034	6	Marshall					46316
				999	9	Balance of county					99999
	099	000	2			Schuyler		197	6	0000	
	100	000	2			Scotland		199	6	0000	
	101	000	2			Scott		201	5	0000	
				051	6	Sikeston, part					67790
				999	9	Balance of county					99999
	102	000	2			Shannon		203	6	0000	
	103	000	2			Shelby		205	6	0000	
	104	000	2			Stoddard		207	5	0000	
	105	000	2			Stone		209	6	0000	
	106	000	2			Sullivan		211	6	0000	
	107	000	2			Taney		213	5	0000	
	108	000	2			Texas		215	6	0000	
	109	000	2			Vernon		217	6	0000	
	110	243	1			Warren		219	6	7040	
	111	000	2			Washington		221	6	0000	
	112	000	2			Wayne		223	6	0000	
	113	270	1			Webster		225	6	7920	
	114	000	2			Worth		227	6	0000	
	115	000	2			Wright		229	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
27						Montana	30				
	001	000	2	999	9	Beaverhead		001	6	0000	
	002	000	2	999	9	Big Horn		003	6	0000	
	003	000	2	999	9	Blaine		005	6	0000	
	004	000	2	999	9	Broadwater		007	6	0000	
	005	000	2	999	9	Carbon		009	6	0000	
	006	000	2	999	9	Carter		011	6	0000	
	007	113	1			Cascade		013	4	3040	
				005	4	Great Falls					32800
				999	9	Balance of county					99999
	008	000	2	999	9	Chouteau		015	6	0000	
	009	000	2	999	9	Custer		017	6	0000	
	010	000	2	999	9	Daniels		019	6	0000	
	011	000	2	999	9	Dawson		021	6	0000	
	012	000	2	001	6	Deer Lodge, coext. with Anaconda-Deer Lo		023	6	0000	01675
	013	000	2	999	9	Fallon		025	6	0000	
	014	000	2	999	9	Fergus		027	6	0000	
	015	000	2			Flathead		029	4	0000	
				008	6	Kalispell					40075
				999	9	Balance of county					99999
	016	000	2			Gallatin		031	4	0000	
				003	6	Bozeman					08950
				999	9	Balance of county					99999
	017	000	2	999	9	Garfield		033	6	0000	
	018	000	2	999	9	Glacier		035	6	0000	
	019	000	2	999	9	Golden Valley		037	6	0000	
	020	000	2	999	9	Granite		039	6	0000	
	021	000	2			Hill		041	6	0000	
				006	6	Havre					35050
				999	9	Balance of county					99999
	022	000	2	999	9	Jefferson		043	6	0000	
	023	000	2	999	9	Judith Basin		045	6	0000	
	024	000	2	999	9	Lake		047	6	0000	
	025	000	2			Lewis and Clark		049	5	0000	
				007	6	Helena					35600
				999	9	Balance of county					99999
	026	000	2	999	9	Liberty		051	6	0000	
	027	000	2	999	9	Lincoln		053	6	0000	
	028	000	2	999	9	McCone		055	6	0000	
	029	000	2	999	9	Madison		057	6	0000	
	030	000	2	999	9	Meagher		059	6	0000	
	031	000	2	999	9	Mineral		061	6	0000	
	032	000	2			Missoula		063	4	0000	
				009	5	Missoula					50200
				999	9	Balance of county					99999
	033	000	2	999	9	Musselshell		065	6	0000	
	034	000	2	999	9	Park		067	6	0000	
	035	000	2	999	9	Petroleum		069	6	0000	
	036	000	2	999	9	Phillips		071	6	0000	
	037	000	2	999	9	Pondera		073	6	0000	
	038	000	2	999	9	Powder River		075	6	0000	
	039	000	2	999	9	Powell		077	6	0000	
	040	000	2	999	9	Prairie		079	6	0000	
	041	000	2	999	9	Ravalli		081	5	0000	
	042	000	2	999	9	Richland		083	6	0000	
	043	000	2	999	9	Roosevelt		085	6	0000	
	044	000	2	999	9	Rosebud		087	6	0000	
	045	000	2	999	9	Sanders		089	6	0000	
	046	000	2	999	9	Sheridan		091	6	0000	
	047	000	2			Silver Bow		093	5	0000	
				004	5	Butte-Silver Bow					11390
				999	9	Balance of county					99999
	048	000	2	999	9	Stillwater		095	6	0000	
	049	000	2	999	9	Sweet Grass		097	6	0000	
	050	000	2	999	9	Teton		099	6	0000	
	051	000	2	999	9	Toole		101	6	0000	
	052	000	2	999	9	Treasure		103	6	0000	
	053	000	2	999	9	Valley		105	6	0000	
	054	000	2	999	9	Wheatland		107	6	0000	
	055	000	2	999	9	Wibaux		109	6	0000	
	056	029	1			Yellowstone		111	3	0880	
				002	4	Billings					06550
				999	9	Balance of county					99999
	057	000	2	999	9	Yellowstone National Park		113	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
28						Nebraska	31				
	001	000	2			Adams	001	5	0000		
				006	6	Hastings					21415
				999	9	Balance of county					99999
	002	000	2	999	9	Antelope	003	6	0000		
	003	000	2	999	9	Arthur	005	6	0000		
	004	000	2	999	9	Banner	007	6	0000		
	005	000	2	999	9	Blaine	009	6	0000		
	006	000	2	999	9	Boone	011	6	0000		
	007	000	2	999	9	Box Butte	013	6	0000		
	008	000	2	999	9	Boyd	015	6	0000		
	009	000	2	999	9	Brown	017	6	0000		
	010	000	2			Buffalo	019	5	0000		
				007	6	Kearney					25055
				999	9	Balance of county					99999
	011	000	2	999	9	Burt	021	6	0000		
	012	000	2	999	9	Butler	023	6	0000		
	013	206	1	999	9	Cass	025	6	5920		
	014	000	2	999	9	Cedar	027	6	0000		
	015	000	2	999	9	Chase	029	6	0000		
	016	000	2	999	9	Cherry	031	6	0000		
	017	000	2	999	9	Cheyenne	033	6	0000		
	018	000	2	999	9	Clay	035	6	0000		
	019	000	2	999	9	Colfax	037	6	0000		
	020	000	2	999	9	Cuming	039	6	0000		
	021	000	2	999	9	Custer	041	6	0000		
	022	265	1	999	9	Dakota	043	6	7720		
	023	000	2	999	9	Dawes	045	6	0000		
	024	000	2	999	9	Dawson	047	6	0000		
	025	000	2	999	9	Deuel	049	6	0000		
	026	000	2	999	9	Dixon	051	6	0000		
	027	000	2			Dodge	053	5	0000		
				004	6	Fremont					17670
				999	9	Balance of county					99999
	028	206	1			Douglas	055	2	5920		
				011	2	Omaha					37000
				999	9	Balance of county					99999
	029	000	2	999	9	Dundy	057	6	0000		
	030	000	2	999	9	Fillmore	059	6	0000		
	031	000	2	999	9	Franklin	061	6	0000		
	032	000	2	999	9	Frontier	063	6	0000		
	033	000	2	999	9	Furnas	065	6	0000		
	034	000	2			Gage	067	6	0000		
				001	6	Beatrice					03390
				999	9	Balance of county					99999
	035	000	2	999	9	Garden	069	6	0000		
	036	000	2	999	9	Garfield	071	6	0000		
	037	000	2	999	9	Gosper	073	6	0000		
	038	000	2	999	9	Grant	075	6	0000		
	039	000	2	999	9	Greeley	077	6	0000		
	040	000	2			Hall	079	5	0000		
				005	5	Grand Island					19595
				999	9	Balance of county					99999
	041	000	2	999	9	Hamilton	081	6	0000		
	042	000	2	999	9	Harlan	083	6	0000		
	043	000	2	999	9	Hayes	085	6	0000		
	044	000	2	999	9	Hitchcock	087	6	0000		
	045	000	2	999	9	Holt	089	6	0000		
	046	000	2	999	9	Hooker	091	6	0000		
	047	000	2	999	9	Howard	093	6	0000		
	048	000	2	999	9	Jefferson	095	6	0000		
	049	000	2	999	9	Johnson	097	6	0000		
	050	000	2	999	9	Kearney	099	6	0000		
	051	000	2	999	9	Keith	101	6	0000		
	052	000	2	999	9	Keya Paha	103	6	0000		
	053	000	2	999	9	Kimball	105	6	0000		
	054	000	2	999	9	Knox	107	6	0000		
	055	165	1			Lancaster	109	3	4360		
				008	3	Lincoln					28000
				999	9	Balance of county					99999
	056	000	2			Lincoln	111	5	0000		
				010	6	North Platte					35000
				999	9	Balance of county					99999
	057	000	2	999	9	Logan	113	6	0000		
	058	000	2	999	9	Loup	115	6	0000		

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
28						Nebraska	31				
	059	000	2	999	9	McPherson		117	6	0000	
	060	000	2			Madison		119	5	0000	
				009	6	Norfolk					34615
				999	9	Balance of county					99999
	061	000	2	999	9	Merrick		121	6	0000	
	062	000	2	999	9	Morrill		123	6	0000	
	063	000	2	999	9	Nance		125	6	0000	
	064	000	2	999	9	Nemaha		127	6	0000	
	065	000	2	999	9	Nuckolls		129	6	0000	
	066	000	2	999	9	Otoe		131	6	0000	
	067	000	2	999	9	Pawnee		133	6	0000	
	068	000	2	999	9	Perkins		135	6	0000	
	069	000	2	999	9	Phelps		137	6	0000	
	070	000	2	999	9	Pierce		139	6	0000	
	071	000	2			Platte		141	5	0000	
				003	6	Columbus					10110
				999	9	Balance of county					99999
	072	000	2	999	9	Polk		143	6	0000	
	073	000	2	999	9	Red Willow		145	6	0000	
	074	000	2	999	9	Richardson		147	6	0000	
	075	000	2	999	9	Rock		149	6	0000	
	076	000	2	999	9	Saline		151	6	0000	
	077	206	1			Sarpy		153	3	5920	
				002	5	Bellevue					03950
				012	6	Papillion					38295
				999	9	Balance of county					99999
	078	000	2	999	9	Saunders		155	6	0000	
	079	000	2			Scotts Bluff		157	5	0000	
				013	6	Scottsbluff					44245
				999	9	Balance of county					99999
	080	000	2	999	9	Seward		159	6	0000	
	081	000	2	999	9	Sheridan		161	6	0000	
	082	000	2	999	9	Sherman		163	6	0000	
	083	000	2	999	9	Sioux		165	6	0000	
	084	000	2	999	9	Stanton		167	6	0000	
	085	000	2	999	9	Thayer		169	6	0000	
	086	000	2	999	9	Thomas		171	6	0000	
	087	000	2	999	9	Thurston		173	6	0000	
	088	000	2	999	9	Valley		175	6	0000	
	089	206	1	999	9	Washington		177	6	5920	
	090	000	2	999	9	Wayne		179	6	0000	
	091	000	2	999	9	Webster		181	6	0000	
	092	000	2	999	9	Wheeler		183	6	0000	
	093	000	2	999	9	York		185	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
29						Nevada	32				
	001	000	2	002	5	Carson City city		510	5	0000	09700
	002	000	2	999	9	Churchill		001	6	0000	
	003	159	1			Clark		003	1	4120	
				001	6	Boulder City					06500
				004	4	Henderson					31900
				005	2	Las Vegas					40000
				006	5	North Las Vegas					51800
				999	9	Balance of county					99999
	004	000	2	999	9	Douglas		005	5	0000	
	005	000	2			Elko		007	5	0000	
				003	6	Elko					22500
				999	9	Balance of county					99999
	006	000	2	999	9	Esmeralda		009	6	0000	
	007	000	2	999	9	Eureka		011	6	0000	
	008	000	2	999	9	Humboldt		013	6	0000	
	009	000	2	999	9	Lander		015	6	0000	
	010	000	2	999	9	Lincoln		017	6	0000	
	011	000	2	999	9	Lyon		019	6	0000	
	012	000	2	999	9	Mineral		021	6	0000	
	013	159	1	999	9	Nye		023	6	4120	
	014	000	2	999	9	Pershing		027	6	0000	
	015	000	2	999	9	Storey		029	6	0000	
	016	230	1			Washoe		031	2	6720	
				007	3	Reno					60600
				008	4	Sparks					68400
				999	9	Balance of county					99999
	017	000	2	999	9	White Pine		033	6	0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
30						New Hampshire	33				
	001	000	2			Belknap		001	5	0000	
				006	6	Laconia					40180
				999	9	Balance of county					99999
	002	000	2	999	9	Carroll		003	5	0000	
	003	000	2			Cheshire		005	4	0000	
				005	6	Keene					39300
				999	9	Balance of county					99999
	004	000	2			Coos		007	5	0000	
				001	6	Berlin					05140
				999	9	Balance of county					99999
	005	000	2			Grafton		009	4	0000	
				007	6	Lebanon					41300
				999	9	Balance of county					99999
	006	037	1			Hillsborough		011	2	1123	
				008	4	Manchester					45140
				009	4	Nashua					50260
				999	9	Balance of county					99999
	007	000	2			Merrimack		013	3	0000	
				003	5	Concord					14200
				999	9	Balance of county					99999
	008	037	1			Rockingham		015	3	1123	
				010	5	Portsmouth					62900
				012	5	Salem town					66660
				999	9	Balance of county					99999
	009	037	1			Strafford		017	3	1123	
				004	5	Dover					18820
				011	5	Rochester					65140
				013	6	Somersworth					69940
				999	9	Balance of county					99999
	010	000	2			Sullivan		019	5	0000	
				002	6	Claremont					12900
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
31						New Jersey	34				
	007	198	1			Essex		013	1	5640	
				005	5	Belleville township					04690
				010	5	Bloomfield township					06250
				017	6	Cedar Grove township					11230
				033	4	East Orange					19390
				069	4	Irvington township					34430
				080	5	Livingston township					40920
				089	6	Maplewood township					43830
				094	6	Millburn township					46410
				097	5	Montclair township					47485
				104	2	Newark					51000
				112	5	Nutley township					53670
				151	6	South Orange Village township					69274
				164	6	Verona township					75800
				999	9	Balance of county					99999
				999	9	Balance of county					99999
	008	214	1			Gloucester		015	3	6160	
				028	6	Deptford township					17710
				049	6	Glassboro borough					26340
				096	5	Monroe township					47250
				168	5	Washington township					77180
				171	6	West Deptford township					78800
				179	6	Woodbury					82120
				999	9	Balance of county					99999
	009	139	1			Hudson		017	1	3640	
				004	4	Bayonne					03580
				059	6	Harrison					30210
				066	5	Hoboken					32250
				071	3	Jersey City					36000
				073	5	Kearny					36510
				109	5	North Bergen township					52440
				147	6	Secaucus					66570
				161	4	Union City					74630
				170	6	Weehawken township					77960
				173	5	West New York					79610
				999	9	Balance of county					99999
	010	181	1	999	9	Hunterdon		019	3	5015	
	011	284	1			Mercer		021	2	8480	
				034	6	East Windsor township					19780
				041	5	Ewing township					22180
				056	4	Hamilton township					29310
				075	5	Lawrence township					39510
				133	6	Princeton borough					60900
				160	4	Trenton					74000
				999	9	Balance of county					99999
	012	181	1			Middlesex		023	1	5015	
				016	6	Carteret borough					10750
				032	5	East Brunswick township					18970
				036	4	Edison township					20260
				063	6	Highland Park borough					31470
				091	6	Metuchen borough					45690
				092	6	Middlesex borough					45900
				105	5	New Brunswick					51210
				110	5	North Brunswick township					52590
				116	4	Old Bridge township					54705
				125	5	Perth Amboy					58200
				127	5	Piscataway township					58980
				129	6	Plainsboro township					59280
				145	5	Sayreville borough					65790
				150	5	South Brunswick township					68790
				152	6	South Plainfield borough					69390
				153	6	South River borough					69420
				178	6	Woodbridge township					81950
				999	9	Balance of county					99999
	013	186	1			Monmouth		025	1	5190	
				001	6	Aberdeen township					00070
				002	6	Asbury Park					01960
				035	6	Eatontown borough					19840
				047	6	Freehold borough					25200
				062	6	Hazlet township					30690
				068	5	Howell township					33300
				072	6	Keansburg borough					36480
				082	5	Long Branch					41310
				085	5	Manalapan township					42990

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
31						New Jersey	34
	013					Monmouth, con.	025 1 5190
				090	5	Marlboro township	44070
				093	4	Middletown township	45990
				103	5	Neptune township	49890
				115	5	Ocean township	54270
				136	6	Red Bank borough	62430
				158	6	Tinton Falls borough	73020
				999	9	Balance of county	99999
	014	198	1			Morris	027 2 5640
				027	6	Denville township	17650
				029	6	Dover	18070
				058	6	Hanover township	29655
				076	6	Lincoln Park borough	40290
				084	6	Madison borough	42510
				099	6	Morristown	48300
				100	6	Morris township	48090
				119	5	Parsippany-Troy Hills township	56475
				124	6	Pequannock township	58125
				999	9	Balance of county	99999
	015	186	1			Ocean	029 2 5190
				009	5	Berkeley township	05300
				011	4	Brick township	07520
				030	4	Dover township	18130
				070	5	Jackson township	34680
				074	5	Lakewood township	38550
				086	5	Manchester township	43140
				131	6	Point Pleasant borough	59880
				999	9	Balance of county	99999
	016	028	1			Passaic	031 2 0875
				023	4	Clifton	13690
				061	6	Hawthorne borough	30570
				079	6	Little Falls township	40650
				120	4	Passaic	56550
				121	3	Paterson	57000
				132	6	Pompton Lakes borough	60090
				139	6	Ringwood borough	63150
				159	6	Totowa borough	73140
				169	5	Wayne township	77870
				174	6	West Paterson borough	79820
				999	9	Balance of county	99999
	017	214	1			Salem	033 4 6160
	018	181	1			Somerset	035 3 5015
				013	5	Bridgewater township	07720
				046	5	Franklin township	24900
				064	5	Hillsborough township	31890
				087	6	Manville borough	43620
				111	6	North Plainfield borough	53280
				149	6	Somerville borough	68460
				999	9	Balance of county	99999
	019	198	1			Sussex	037 3 5640
				067	6	Hopatcong borough	32910
				999	9	Balance of county	99999
	020	198	1			Union	039 2 5640
				008	6	Berkeley Heights township	05350
				021	6	Clark township	13180
				025	6	Cranford township	15670
				037	3	Elizabeth	21000
				065	6	Hillside township	32010
				077	5	Linden	40350
				107	6	New Providence borough	51810
				128	5	Plainfield	59190
				134	5	Rahway	61530
				141	6	Roselle borough	64620
				142	6	Roselle Park borough	64650
				146	6	Scotch Plains township	66090
				154	6	Springfield township	70050
				155	6	Summit	71430
				162	4	Union township	74510
				172	5	Westfield	79040
				999	9	Balance of county	99999
	021	198	1			Warren	041 4 5640
				126	6	Phillipsburg	58350
				999	9	Balance of county	99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
32						New Mexico	35				
	001	005	1			Bernalillo	001	2	0200		02000
				002	2	Albuquerque					99999
				999	9	Balance of county					99999
	002	000	2	999	9	Catron	003	6	0000		
	003	000	2			Chaves	005	4	0000		
				014	5	Roswell					64930
				999	9	Balance of county					99999
	004	000	2	999	9	Cibola	006	6	0000		
	005	000	2	999	9	Colfax	007	6	0000		
	006	000	2			Curry	009	5	0000		
				005	5	Clovis					16420
				999	9	Balance of county					99999
	007	000	2	999	9	De Baca	011	6	0000		
	008	158	1			Dona Ana	013	3	4100		
				010	4	Las Cruces					39380
				999	9	Balance of county					99999
	009	000	2			Eddy	015	5	0000		
				003	6	Artesia					05220
				004	6	Carlsbad					12150
				999	9	Balance of county					99999
	010	000	2			Grant	017	5	0000		
				016	6	Silver City					73260
				999	9	Balance of county					99999
	011	000	2	999	9	Guadalupe	019	6	0000		
	012	000	2	999	9	Harding	021	6	0000		
	013	000	2	999	9	Hidalgo	023	6	0000		
	014	000	2			Lea	025	4	0000		
				009	5	Hobbs					32520
				999	9	Balance of county					99999
	015	000	2	999	9	Lincoln	027	6	0000		
	016	255	1	999	9	Los Alamos	028	6	7490		
	017	000	2			Luna	029	6	0000		
				006	6	Deming					20270
				999	9	Balance of county					99999
	018	000	2			McKinley	031	4	0000		
				008	6	Gallup					28460
				999	9	Balance of county					99999
	019	000	2	999	9	Mora	033	6	0000		
	020	000	2			Otero	035	4	0000		
				001	5	Alamogordo					01780
				999	9	Balance of county					99999
	021	000	2	999	9	Quay	037	6	0000		
	022	000	2	999	9	Rio Arriba	039	5	0000		
	023	000	2			Roosevelt	041	6	0000		
				012	6	Portales					59260
				999	9	Balance of county					99999
	024	005	1			Sandoval	043	4	0200		
				013	5	Rio Rancho					63530
				999	9	Balance of county					99999
	025	000	2			San Juan	045	4	0000		
				007	5	Farmington					25800
				999	9	Balance of county					99999
	026	000	2			San Miguel	047	5	0000		
				011	6	Las Vegas					39940
				999	9	Balance of county					99999
	027	255	1			Santa Fe	049	4	7490		
				015	4	Santa Fe					70500
				999	9	Balance of county					99999
	028	000	2	999	9	Sierra	051	6	0000		
	029	000	2	999	9	Socorro	053	6	0000		
	030	000	2	999	9	Taos	055	6	0000		
	031	000	2	999	9	Torrance	057	6	0000		
	032	000	2	999	9	Union	059	6	0000		
	033	005	1	999	9	Valencia	061	5	0200		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
33						New York	36				
	001	004	1			Albany	001	2		0160	
				001	3	Albany					01000
				007	5	Bethlehem town					06354
				017	6	Cohoes					16749
				097	6	Watervliet					78674
				999	9	Balance of county					99999
	002	000	2	999	9	Allegany	003	4		0000	
	003	031	1			Broome	007	3		0960	
				008	4	Binghamton					06607
				024	6	Endicott village					24515
				043	6	Johnson City village					38748
				095	5	Vestal town					77255
				999	9	Balance of county					99999
	004	000	2			Cattaraugus	009	4		0000	
				065	6	Olean					54716
				999	9	Balance of county					99999
	005	276	1			Cayuga	011	4		8160	
				003	5	Auburn					03078
				999	9	Balance of county					99999
	006	137	1			Chautauqua	013	3		3610	
				021	6	Dunkirk					21105
				026	6	Fredonia village					27419
				042	5	Jamestown					38264
				999	9	Balance of county					99999
	007	085	1			Chemung	015	4		2335	
				023	5	Elmira					24229
				999	9	Balance of county					99999
	008	000	2	999	9	Chenango	017	4		0000	
	009	000	2			Clinton	019	4		0000	
				073	6	Plattsburgh					58574
				999	9	Balance of county					99999
	010	000	2	999	9	Columbia	021	4		0000	
	011	000	2			Cortland	023	5		0000	
				019	6	Cortland					18388
				999	9	Balance of county					99999
	012	000	2	999	9	Delaware	025	5		0000	
	013	081	1			Dutchess	027	2		2281	
				006	6	Beacon					05100
				076	5	Poughkeepsie					59641
				999	9	Balance of county					99999
	014	043	1			Erie	029	1		1280	
				012	2	Buffalo					11000
				020	6	Depew village					20313
				036	6	Hamburg village					31643
				044	6	Kenmore village					39232
				046	6	Lackawanna					40189
				047	6	Lancaster village					41135
				091	6	Tonawanda					74166
				099	5	West Seneca town					80918
				999	9	Balance of county					99999
	015	000	2	999	9	Essex	031	5		0000	
	016	000	2	999	9	Franklin	033	5		0000	
	017	000	2			Fulton	035	4		0000	
				034	6	Gloversville					29443
				999	9	Balance of county					99999
	018	236	1			Genesee	037	4		6840	
				005	6	Batavia					04715
				999	9	Balance of county					99999
	019	000	2	999	9	Greene	039	5		0000	
	020	000	2	999	9	Hamilton	041	6		0000	
	021	289	1	999	9	Herkimer	043	4		8680	
	022	000	2			Jefferson	045	3		0000	
				096	5	Watertown					78608
				999	9	Balance of county					99999
	023	000	2	999	9	Lewis	049	5		0000	
	024	236	1	999	9	Livingston	051	4		6840	
	025	276	1			Madison	053	4		8160	
				066	6	Oneida					54837
				999	9	Balance of county					99999
	026	236	1			Monroe	055	1		6840	
				009	5	Brighton town					08246
				015	5	Chili town					15462
				030	5	Gates town					28442
				035	4	Greece town					30290

Vital Statistics Codes					FIPS Codes					
St	Cnty	P/MSA	M/NM	City P/S	Area Names	St	Cnty	P/S	P/MSA	Place
33					New York	36				
	026				Monroe, con.	055	1		6840	
				039	5					34099
				040	4					37726
				072	5					57144
				078	3					63000
				999	9					99999
	027	004	1		Montgomery	057	4		0160	
				002	6					02066
				999	9					99999
	028	193	1		Nassau	059	0		5380	
				022	6					22876
				025	6					26264
				027	5					27485
				029	6					28178
				032	6					29113
				038	5					33139
				050	5					43335
				051	6					43874
				054	6					45997
				057	6					47636
				079	6					63264
				094	5					76705
				098	6					79444
				999	9					99999
	029	197	1		New York city				5600	51000
				010	0	005	0			
				011	0	047	0			
				053	0	061	0			
				077	0	081	0			
				087	0	085	0			
	030	043	1		Niagara	063	3		1280	
				049	6					43082
				061	4					51055
				063	5					53682
				999	9					99999
	031	289	1		Oneida	065	2		8680	
				080	5					63418
				093	4					76540
				999	9					99999
	032	276	1		Onondaga	067	2		8160	
				089	3					73000
				999	9					99999
	033	236	1		Ontario	069	4		6840	
				013	6					12144
				031	6					28640
				999	9					99999
	034	199	1		Orange	071	2		5660	
				056	6					47042
				059	5					50034
				999	9					99999
	035	236	1		Orleans	073	5		6840	
	036	276	1		Oswego	075	3		8160	
				028	6					27815
				069	6					55574
				999	9					99999
	037	000	2		Otsego	077	4		0000	
				067	6					54881
				999	9					99999
	038	197	1		Putnam	079	4		5600	
				014	5					12529
				999	9					99999
	039	004	1		Rensselaer	083	3		0160	
				092	4					75484
				999	9					99999
	040	197	1		Rockland	087	2		5600	
				086	6					70420
				088	6					71894
				999	9					99999
	041	000	2		St. Lawrence	089	3		0000	
				055	6					46019
				064	6					54485
				075	6					59564
				999	9					99999
	042	004	1		Saratoga	091	3		0160	
				016	5					16353
					Clifton Park town					

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
33						New York	36				
042				083	5	Saratoga, con.	091	3	0160		65255
				999	9	Saratoga Springs					99999
043	004	1				Balance of county					
				062	6	Schenectady	093	3	0160		51264
				081	5	Niskayuna town					63935
				085	4	Rotterdam town					65508
				999	9	Schenectady					99999
				999	9	Balance of county					
044	004	1		999	9	Schoharie	095	5	0160		
045	000	2		999	9	Schuyler	097	6	0000		
046	000	2				Seneca	099	5	0000		
				031	6	Geneva, part					28640
				999	9	Balance of county					99999
047	000	2				Steuben	101	4	0000		
				018	6	Corning					18256
				999	9	Balance of county					99999
048	193	1				Suffolk	103	0	5380		
				004	6	Babylon village					03408
				048	5	Lindenhurst village					42554
				070	6	Patchogue village					56660
				999	9	Balance of county					99999
049	000	2		999	9	Sullivan	105	4	0000		
050	031	1		999	9	Tioga	107	4	0960		
051	000	2				Tompkins	109	4	0000		
				041	5	Ithaca					38077
				999	9	Balance of county					99999
052	000	2				Ulster	111	3	0000		
				045	6	Kingston					39727
				999	9	Balance of county					99999
053	109	1				Warren	113	4	2975		
				033	6	Glens Falls					29333
				999	9	Balance of county					99999
054	109	1		999	9	Washington	115	4	2975		
055	236	1		999	9	Wayne	117	4	6840		
056	197	1				Westchester	119	1	5600		
				037	6	Harrison village					32402
				052	6	Mamaroneck village					44831
				058	4	Mount Vernon					49121
				060	4	New Rochelle					50617
				068	6	Ossining village					55530
				071	6	Peekskill					56979
				074	6	Port Chester village					59223
				082	6	Rye					64309
				084	6	Scarsdale village					65431
				090	6	Tarrytown village					73176
				100	5	White Plains					81677
				101	3	Yonkers					84000
				102	5	Yorktown town					84077
				999	9	Balance of county					99999
057	000	2		999	9	Wyoming	121	5	0000		
058	000	2		999	9	Yates	123	6	0000		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
34						North Carolina	37				
	001	116	1			Alamance	001	3		3120	
				005	5	Burlington					09060
				018	6	Graham					27280
				999	9	Balance of county					99999
	002	124	1			Alexander	003	5		3290	
	003	000	2			Alleghany	005	6		0000	
	004	000	2			Anson	007	6		0000	
	005	000	2			Ashe	009	6		0000	
	006	000	2			Avery	011	6		0000	
	007	000	2			Beaufort	013	5		0000	
	008	000	2			Bertie	015	6		0000	
	009	000	2			Bladen	017	5		0000	
	010	305	1			Brunswick	019	4		9200	
	011	014	1			Buncombe	021	3		0480	
				003	4	Asheville					02140
				999	9	Balance of county					99999
	012	124	1			Burke	023	4		3290	
				023	5	Hickory, part					31060
				036	6	Morganton					44400
				999	9	Balance of county					99999
	013	051	1			Cabarrus	025	4		1520	
				010	5	Concord					14100
				026	5	Kannapolis, part					35200
				999	9	Balance of county					99999
	014	124	1			Caldwell	027	4		3290	
				030	6	Lenoir					37760
				999	9	Balance of county					99999
	015	000	2			Camden	029	6		0000	
				013	6	Elizabeth City, part					20580
				999	9	Balance of county					99999
	016	000	2			Carteret	031	4		0000	
	017	000	2			Caswell	033	6		0000	
	018	124	1			Catawba	035	3		3290	
				023	5	Hickory, part					31060
				999	9	Balance of county					99999
	019	226	1			Chatham	037	5		6640	
	020	000	2			Cherokee	039	6		0000	
	021	000	2			Chowan	041	6		0000	
	022	000	2			Clay	043	6		0000	
	023	000	2			Cleveland	045	4		0000	
				044	6	Shelby					61200
				999	9	Balance of county					99999
	024	000	2			Columbus	047	5		0000	
	025	000	2			Craven	049	4		0000	
				021	6	Havelock					30120
				037	6	New Bern					46340
				999	9	Balance of county					99999
	026	091	1			Cumberland	051	2		2560	
				014	4	Fayetteville					22920
				999	9	Balance of county					99999
	027	200	1			Currituck	053	6		5720	
	028	000	2			Dare	055	6		0000	
	029	116	1			Davidson	057	3		3120	
				024	4	High Point, part					31400
				031	6	Lexington					38060
				047	6	Thomasville					67420
				999	9	Balance of county					99999
	030	116	1			Davie	059	5		3120	
	031	000	2			Duplin	061	5		0000	
	032	226	1			Durham	063	3		6640	
				008	5	Chapel Hill, part					11800
				011	3	Durham, part					19000
				999	9	Balance of county					99999
	033	238	1			Edgecombe	065	4		6895	
				041	5	Rocky Mount, part					57500
				046	6	Tarboro					66700
				999	9	Balance of county					99999
	034	116	1			Forsyth	067	2		3120	
				024	4	High Point, part					31400
				027	6	Kernersville, part					35600
				050	3	Winston-Salem					75000
				999	9	Balance of county					99999
	035	226	1			Franklin	069	5		6640	
	036	051	1			Gaston	071	3		1520	
				016	4	Gastonia					25580

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
34						North Carolina	37				
	036					Gaston, con.		071	3	1520	
				999	9	Balance of county					99999
	037	000	2	999	9	Gates		073	6	0000	
	038	000	2	999	9	Graham		075	6	0000	
	039	000	2	999	9	Granville		077	5	0000	
	040	000	2	999	9	Greene		079	6	0000	
	041	116	1			Guilford		081	2	3120	
				019	3	Greensboro					28000
				024	4	High Point, part					31400
				027	6	Kernersville, part					35600
				999	9	Balance of county					99999
	042	000	2			Halifax		083	4	0000	
				040	6	Roanoke Rapids					56900
				999	9	Balance of county					99999
	043	000	2	999	9	Harnett		085	4	0000	
	044	000	2	999	9	Haywood		087	5	0000	
	045	000	2	999	9	Henderson		089	4	0000	
	046	000	2	999	9	Hertford		091	6	0000	
	047	000	2	999	9	Hoke		093	6	0000	
	048	000	2	999	9	Hyde		095	6	0000	
	049	000	2			Iredell		097	4	0000	
				045	6	Statesville					64740
				999	9	Balance of county					99999
	050	000	2	999	9	Jackson		099	5	0000	
	051	226	1	999	9	Johnston		101	4	6640	
	052	000	2	999	9	Jones		103	6	0000	
	053	000	2			Lee		105	5	0000	
				043	6	Sanford					59280
				999	9	Balance of county					99999
	054	000	2			Lenoir		107	4	0000	
				028	5	Kinston					35920
				999	9	Balance of county					99999
	055	051	1	999	9	Lincoln		109	4	1520	
	056	000	2	999	9	McDowell		111	5	0000	
	057	000	2	999	9	Macon		113	6	0000	
	058	014	1	999	9	Madison		115	6	0480	
	059	000	2	999	9	Martin		117	5	0000	
	060	051	1			Mecklenburg		119	1	1520	
				009	2	Charlotte					12000
				033	6	Matthews					41960
				034	6	Mint Hill					43480
				999	9	Balance of county					99999
	061	000	2	999	9	Mitchell		121	6	0000	
	062	000	2	999	9	Montgomery		123	6	0000	
	063	000	2	999	9	Moore		125	4	0000	
	064	238	1			Nash		127	4	6895	
				041	5	Rocky Mount, part					57500
				999	9	Balance of county					99999
	065	305	1			New Hanover		129	3	9200	
				048	4	Wilmington					74440
				999	9	Balance of county					99999
	066	000	2	999	9	Northampton		131	6	0000	
	067	136	1			Onslow		133	3	3605	
				025	5	Jacksonville					34200
				999	9	Balance of county					99999
	068	226	1			Orange		135	4	6640	
				006	6	Carrboro					10620
				008	5	Chapel Hill, part					11800
				011	3	Durham, part					19000
				999	9	Balance of county					99999
	069	000	2	999	9	Pamlico		137	6	0000	
	070	000	2			Pasquotank		139	5	0000	
				013	6	Elizabeth City, part					20580
				999	9	Balance of county					99999
	071	000	2	999	9	Pender		141	5	0000	
	072	000	2	999	9	Perquimans		143	6	0000	
	073	000	2	999	9	Person		145	5	0000	
	074	117	1			Pitt		147	3	3150	
				020	5	Greenville					28080
				999	9	Balance of county					99999
	075	000	2	999	9	Polk		149	6	0000	
	076	116	1			Randolph		151	3	3120	
				002	6	Asheboro					02080
				024	4	High Point, part					31400

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
34						North Carolina	37				
	076			999	9	Randolph, con.		151	3	3120	
				999	9	Balance of county					99999
	077	000	2	999	9	Richmond		153	5	0000	
	078	000	2			Robeson		155	3	0000	
				032	6	Lumberton					39700
				999	9	Balance of county					99999
	079	000	2			Rockingham		157	4	0000	
				012	6	Eden					20080
				039	6	Reidsville					55900
				999	9	Balance of county					99999
	080	051	1			Rowan		159	3	1520	
				026	5	Kannapolis, part					35200
				042	6	Salisbury					58860
				999	9	Balance of county					99999
	081	000	2	999	9	Rutherford		161	4	0000	
	082	000	2	999	9	Sampson		163	5	0000	
	083	000	2			Scotland		165	5	0000	
				029	6	Laurinburg					37220
				999	9	Balance of county					99999
	084	000	2			Stanly		167	4	0000	
				001	6	Albemarle					00680
				999	9	Balance of county					99999
	085	116	1	999	9	Stokes		169	5	3120	
	086	000	2	999	9	Surry		171	4	0000	
	087	000	2	999	9	Swain		173	6	0000	
	088	000	2	999	9	Transylvania		175	5	0000	
	089	000	2	999	9	Tyrrell		177	6	0000	
	090	051	1			Union		179	4	1520	
				035	6	Monroe					43920
				999	9	Balance of county					99999
	091	000	2			Vance		181	5	0000	
				022	6	Henderson					30660
				999	9	Balance of county					99999
	092	226	1			Wake		183	2	6640	
				007	5	Cary					10740
				015	6	Garner					25480
				038	3	Raleigh					55000
				999	9	Balance of county					99999
	093	000	2	999	9	Warren		185	6	0000	
	094	000	2	999	9	Washington		187	6	0000	
	095	000	2			Watauga		189	5	0000	
				004	6	Boone					07080
				999	9	Balance of county					99999
	096	110	1			Wayne		191	3	2980	
				017	5	Goldsboro					26880
				999	9	Balance of county					99999
	097	000	2	999	9	Wilkes		193	4	0000	
	098	000	2			Wilson		195	4	0000	
				049	5	Wilson					74540
				999	9	Balance of county					99999
	099	116	1	999	9	Yadkin		197	5	3120	
	100	000	2	999	9	Yancey		199	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
35						North Dakota	38				
	001	000	2	999	9	Adams		001	6	0000	
	002	000	2	999	9	Barnes		003	6	0000	
	003	000	2	999	9	Benson		005	6	0000	
	004	000	2	999	9	Billings		007	6	0000	
	005	000	2	999	9	Bottineau		009	6	0000	
	006	000	2	999	9	Bowman		011	6	0000	
	007	000	2	999	9	Burke		013	6	0000	
	008	033	1			Burleigh		015	4	1010	
				001	5	Bismarck					07200
				999	9	Balance of county					99999
	009	090	1			Cass		017	3	2520	
				003	4	Fargo					25700
				008	6	West Fargo					84780
				999	9	Balance of county					99999
	010	000	2	999	9	Cavalier		019	6	0000	
	011	000	2	999	9	Dickey		021	6	0000	
	012	000	2	999	9	Divide		023	6	0000	
	013	000	2	999	9	Dunn		025	6	0000	
	014	000	2	999	9	Eddy		027	6	0000	
	015	000	2	999	9	Emmons		029	6	0000	
	016	000	2	999	9	Foster		031	6	0000	
	017	000	2	999	9	Golden Valley		033	6	0000	
	018	111	1			Grand Forks		035	4	2985	
				004	5	Grand Forks					32060
				999	9	Balance of county					99999
	019	000	2	999	9	Grant		037	6	0000	
	020	000	2	999	9	Griggs		039	6	0000	
	021	000	2	999	9	Hettinger		041	6	0000	
	022	000	2	999	9	Kidder		043	6	0000	
	023	000	2	999	9	La Moure		045	6	0000	
	024	000	2	999	9	Logan		047	6	0000	
	025	000	2	999	9	McHenry		049	6	0000	
	026	000	2	999	9	McIntosh		051	6	0000	
	027	000	2	999	9	McKenzie		053	6	0000	
	028	000	2	999	9	McLean		055	6	0000	
	029	000	2	999	9	Mercer		057	6	0000	
	030	033	1			Morton		059	6	1010	
				006	6	Mandan					49900
				999	9	Balance of county					99999
	031	000	2	999	9	Mountrail		061	6	0000	
	032	000	2	999	9	Nelson		063	6	0000	
	033	000	2	999	9	Oliver		065	6	0000	
	034	000	2	999	9	Pembina		067	6	0000	
	035	000	2	999	9	Pierce		069	6	0000	
	036	000	2	999	9	Ramsey		071	6	0000	
	037	000	2	999	9	Ransom		073	6	0000	
	038	000	2	999	9	Renville		075	6	0000	
	039	000	2	999	9	Richland		077	6	0000	
	040	000	2	999	9	Rolette		079	6	0000	
	041	000	2	999	9	Sargent		081	6	0000	
	042	000	2	999	9	Sheridan		083	6	0000	
	043	000	2	999	9	Sioux		085	6	0000	
	044	000	2	999	9	Slope		087	6	0000	
	045	000	2			Stark		089	6	0000	
				002	6	Dickinson					19620
				999	9	Balance of county					99999
	046	000	2	999	9	Steele		091	6	0000	
	047	000	2			Stutsman		093	6	0000	
				005	6	Jamestown					40580
				999	9	Balance of county					99999
	048	000	2	999	9	Towner		095	6	0000	
	049	000	2	999	9	Traill		097	6	0000	
	050	000	2	999	9	Walsh		099	6	0000	
	051	000	2			Ward		101	4	0000	
				007	5	Minot					53380
				999	9	Balance of county					99999
	052	000	2	999	9	Wells		103	6	0000	
	053	000	2			Williams		105	6	0000	
				009	6	Williston					86220
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
36						Ohio	39				
	001	000	2	999	9	Adams		001	5	0000	
	002	164	1			Allen		003	3	4320	
				072	5	Lima					43554
				999	9	Balance of county					99999
	003	000	2			Ashland		005	5	0000	
				004	6	Ashland					02568
				999	9	Balance of county					99999
	004	059	1			Ashtabula		007	4	1680	
				005	6	Ashtabula					02638
				035	6	Conneaut					18350
				999	9	Balance of county					99999
	005	000	2			Athens		009	4	0000	
				006	6	Athens					02736
				999	9	Balance of county					99999
	006	164	1	999	9	Auglaize		011	5	4320	
	007	300	1	999	9	Belmont		013	4	9000	
	008	057	1	999	9	Brown		015	5	1640	
	009	120	1			Butler		017	2	3200	
				050	5	Fairfield					25970
				063	4	Hamilton					33012
				088	5	Middletown, part					49840
				102	6	Oxford					59234
				117	6	Sharonville, part					71892
				999	9	Balance of county					99999
	010	045	1	999	9	Carroll		019	5	1320	
	011	000	2			Champaign		021	5	0000	
				134	6	Urbana					79072
				999	9	Balance of county					99999
	012	070	1			Clark		023	3	2000	
				122	4	Springfield					74118
				999	9	Balance of county					99999
	013	057	1	999	9	Clermont		025	3	1640	
	014	000	2			Clinton		027	5	0000	
				149	6	Wilmington					85792
				999	9	Balance of county					99999
	015	309	1			Columbiana		029	3	9320	
				045	6	East Liverpool					23730
				113	6	Salem					69834
				999	9	Balance of county					99999
	016	000	2			Coshocton		031	5	0000	
				036	6	Coshocton					18868
				999	9	Balance of county					99999
	017	174	1			Crawford		033	5	4800	
				024	6	Bucyrus					10030
				058	6	Galion					29162
				999	9	Balance of county					99999
	018	059	1			Cuyahoga		035	0	1680	
				009	6	Bay Village					04416
				010	6	Beachwood					04500
				012	6	Bedford					04878
				013	6	Bedford Heights					04920
				015	6	Berea					05690
				019	6	Brecksville					08364
				020	6	Broadview Heights					09064
				021	6	Brooklyn					09246
				022	6	Brook Park					09288
				032	1	Cleveland					16000
				033	4	Cleveland Heights					16014
				043	5	East Cleveland					23380
				048	4	Euclid					25704
				051	6	Fairview Park					26446
				059	5	Garfield Heights					29428
				069	4	Lakewood					41664
				075	6	Lyndhurst					45556
				077	5	Maple Heights					47306
				083	6	Mayfield Heights					48482
				087	6	Middleburg Heights					49644
				095	5	North Olmsted					56882
				097	6	North Royalton					57008
				104	4	Parma					61000
				105	6	Parma Heights					61028
				112	6	Rocky River					68056
				115	6	Seven Hills					71416
				116	5	Shaker Heights					71682

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
36						Ohio	39				
	018					Cuyahoga, con.	035	0		1680	
				119	6	Solon					72928
				120	6	South Euclid					73264
				125	5	Strongsville					75098
				132	6	University Heights					78932
				140	6	Warrensville Heights					80990
				144	5	Westlake					83622
				999	9	Balance of county					99999
	019	000	2			Darke	037	4		0000	
				061	6	Greenville					32340
				999	9	Balance of county					99999
	020	000	2			Defiance	039	5		0000	
				039	6	Defiance					21308
				999	9	Balance of county					99999
	021	064	1			Delaware	041	4		1840	
				040	6	Delaware					21434
				042	6	Dublin, part					22694
				143	5	Westerville, part					83342
				999	9	Balance of county					99999
	022	000	2			Erie	043	4		0000	
				114	5	Sandusky					70380
				137	6	Vermilion, part					79716
				999	9	Balance of county					99999
	023	064	1			Fairfield	045	3		1840	
				034	1	Columbus, part					18000
				070	5	Lancaster					41720
				111	5	Reynoldsburg, part					66390
				999	9	Balance of county					99999
	024	000	2			Fayette	047	5		0000	
				141	6	Washington					81214
				999	9	Balance of county					99999
	025	064	1			Franklin	049	1		1840	
				016	6	Bexley					06278
				034	1	Columbus, part					18000
				042	6	Dublin, part					22694
				057	5	Gahanna					29106
				062	6	Grove City					32592
				064	6	Hilliard					35476
				111	5	Reynoldsburg, part					66390
				133	5	Upper Arlington					79002
				143	5	Westerville, part					83342
				145	6	Whitehall					84742
				151	6	Worthington					86604
				999	9	Balance of county					99999
	026	282	1			Fulton	051	5		8400	
	027	000	2			Gallia	053	5		0000	
	028	059	1			Geauga	055	4		1680	
	029	070	1			Greene	057	3		2000	
				011	5	Beavercreek					04720
				049	5	Fairborn					25914
				152	6	Xenia					86772
				999	9	Balance of county					99999
	030	000	2			Guernsey	059	5		0000	
				025	6	Cambridge					10996
				999	9	Balance of county					99999
	031	057	1			Hamilton	061	1		1640	
				017	6	Blue Ash					07300
				030	2	Cincinnati					15000
				053	6	Forest Park					27706
				074	6	Loveland					45108
				094	6	North College Hill					56322
				100	6	Norwood					57386
				110	6	Reading					65732
				117	6	Sharonville, part					71892
				121	6	Springdale					74104
				999	9	Balance of county					99999
	032	000	2			Hancock	063	4		0000	
				052	5	Findlay					27048
				054	6	Fostoria, part					28014
				999	9	Balance of county					99999
	033	000	2			Hardin	065	5		0000	
	034	000	2			Harrison	067	6		0000	
	035	000	2			Henry	069	5		0000	
	036	000	2			Highland	071	5		0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
36						Ohio	39				
	037	000	2	999	9	Hocking		073	5	0000	
	038	000	2	999	9	Holmes		075	5	0000	
	039	000	2			Huron		077	4	0000	
				099	6	Norwalk					57302
				999	9	Balance of county					99999
	040	000	2	999	9	Jackson		079	5	0000	
	041	273	1			Jefferson		081	4	8080	
				123	6	Steubenville					74608
				999	9	Balance of county					99999
	042	000	2			Knox		083	5	0000	
				089	6	Mount Vernon					53102
				999	9	Balance of county					99999
	043	059	1			Lake		085	3	1680	
				044	6	Eastlake					23618
				085	5	Mentor					49056
				103	6	Painesville					59416
				146	6	Wickliffe					85036
				147	6	Willoughby					85484
				148	6	Willowick					85638
				999	9	Balance of county					99999
	044	128	1			Lawrence		087	4	3400	
				066	6	Ironton					37464
				999	9	Balance of county					99999
	045	064	1			Licking		089	3	1840	
				090	5	Newark					54040
				111	5	Reynoldsburg, part					66390
				999	9	Balance of county					99999
	046	000	2			Logan		091	5	0000	
				014	6	Bellefontaine					05130
				999	9	Balance of county					99999
	047	059	1			Lorain		093	2	1680	
				003	6	Amherst					01798
				007	6	Avon Lake					03464
				046	4	Elyria					25256
				073	4	Lorain					44856
				096	6	North Ridgeville					56966
				137	6	Vermilion, part					79716
				999	9	Balance of county					99999
	048	282	1			Lucas		095	2	8400	
				082	6	Maumee					48342
				101	6	Oregon					58730
				127	6	Sylvania					76022
				130	2	Toledo					77000
				999	9	Balance of county					99999
	049	064	1	999	9	Madison		097	5	1840	
	050	309	1			Mahoning		099	2	9320	
				002	6	Alliance, part					01420
				026	6	Campbell					11066
				126	6	Struthers					75126
				153	4	Youngstown, part					88000
				999	9	Balance of county					99999
	051	000	2			Marion		101	4	0000	
				079	5	Marion					47754
				999	9	Balance of county					99999
	052	059	1			Medina		103	3	1680	
				023	5	Brunswick					09680
				084	6	Medina					48790
				138	6	Wadsworth					80304
				999	9	Balance of county					99999
	053	000	2	999	9	Meigs		105	6	0000	
	054	000	2	999	9	Mercer		107	5	0000	
	055	070	1			Miami		109	4	2000	
				065	5	Huber Heights, part					36610
				107	6	Piqua					62848
				131	6	Troy					77588
				999	9	Balance of county					99999
	056	000	2	999	9	Monroe		111	6	0000	
	057	070	1			Montgomery		113	1	2000	
				028	6	Centerville					13190
				038	3	Dayton					21000
				047	6	Englewood					25396
				065	5	Huber Heights, part					36610
				068	4	Kettering					40040
				086	6	Miamisburg					49434

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
36						Ohio	39				
	057					Montgomery, con.		113	1	2000	
				135	6	Vandalia					79492
				142	6	West Carrolllton City					83090
				999	9	Balance of county					99999
	058	000	2	999	9	Morgan		115	6	0000	
	059	000	2	999	9	Morrow		117	5	0000	
	060	000	2			Muskingum		119	4	0000	
				154	5	Zanesville					88084
				999	9	Balance of county					99999
	061	000	2	999	9	Noble		121	6	0000	
	062	000	2	999	9	Ottawa		123	5	0000	
	063	000	2	999	9	Paulding		125	6	0000	
	064	000	2	999	9	Perry		127	5	0000	
	065	064	1			Pickaway		129	5	1840	
				031	6	Circleville					15070
				999	9	Balance of county					99999
	066	000	2	999	9	Pike		131	6	0000	
	067	002	1			Portage		133	3	0080	
				067	5	Kent					39872
				109	6	Ravenna					65592
				999	9	Balance of county					99999
	068	000	2	999	9	Preble		135	5	0000	
	069	000	2	999	9	Putnam		137	5	0000	
	070	174	1			Richland		139	3	4800	
				076	4	Mansfield					47138
				999	9	Balance of county					99999
	071	000	2			Ross		141	4	0000	
				029	6	Chillicothe					14184
				999	9	Balance of county					99999
	072	000	2			Sandusky		143	4	0000	
				056	6	Fremont					28826
				999	9	Balance of county					99999
	073	000	2			Scioto		145	4	0000	
				108	6	Portsmouth					64304
				999	9	Balance of county					99999
	074	000	2			Seneca		147	4	0000	
				054	6	Fostoria, part					28014
				129	6	Tiffin					76778
				999	9	Balance of county					99999
	075	000	2			Shelby		149	5	0000	
				118	6	Sidney					72424
				999	9	Balance of county					99999
	076	045	1			Stark		151	2	1320	
				002	6	Alliance, part					01420
				027	4	Canton					12000
				081	5	Massillon					48244
				093	6	North Canton					56294
				999	9	Balance of county					99999
	077	002	1			Summit		153	1	0080	
				001	3	Akron					01000
				008	5	Barberton					03828
				037	5	Cuyahoga Falls					19778
				098	6	Norton, part					57260
				124	5	Stow					74944
				128	6	Tallmadge					76106
				999	9	Balance of county					99999
	078	309	1			Trumbull		155	3	9320	
				060	6	Girard					30198
				092	6	Niles					55916
				139	4	Warren					80892
				153	4	Youngstown, part					88000
				999	9	Balance of county					99999
	079	000	2			Tuscarawas		157	4	0000	
				041	6	Dover					22456
				091	6	New Philadelphia					55216
				999	9	Balance of county					99999
	080	000	2			Union		159	5	0000	
				042	6	Dublin, part					22694
				999	9	Balance of county					99999
	081	000	2			Van Wert		161	5	0000	
				136	6	Van Wert					79562
				999	9	Balance of county					99999
	082	000	2	999	9	Vinton		163	6	0000	
	083	057	1			Warren		165	3	1640	
				055	6	Franklin					28476

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
36						Ohio	39				
	083					Warren, con.	165	3		1640	
				071	6	Lebanon					42364
				080	6	Mason					48188
				088	5	Middletown, part					49840
				999	9	Balance of county					99999
	084	211	1			Washington	167	4		6020	
				078	6	Marietta					47628
				999	9	Balance of county					99999
	085	000	2			Wayne	169	3		0000	
				098	6	Norton, part					57260
				150	6	Wooster					86548
				999	9	Balance of county					99999
	086	000	2			Williams	171	5		0000	
	087	282	1			Wood	173	3		8400	
				018	5	Bowling Green					07972
				054	6	Fostoria, part					28014
				106	6	Perrysburg					62148
				999	9	Balance of county					99999
	088	000	2			Wyandot	175	6		0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
37						Oklahoma	40				
	001	000	2	999	9	Adair		001	6	0000	
	002	000	2	999	9	Alfalfa		003	6	0000	
	003	000	2	999	9	Atoka		005	6	0000	
	004	000	2	999	9	Beaver		007	6	0000	
	005	000	2			Beckham		009	6	0000	
				013	6	Elk City					23500
				999	9	Balance of county					99999
	006	000	2	999	9	Blaine		011	6	0000	
	007	000	2			Bryan		013	5	0000	
				011	6	Durant					22050
				999	9	Balance of county					99999
	008	000	2	999	9	Caddo		015	5	0000	
	009	204	1			Canadian		017	4	5880	
				014	6	El Reno					23700
				023	6	Mustang					50100
				025	2	Oklahoma City, part					55000
				038	6	Yukon					82950
				999	9	Balance of county					99999
	010	000	2			Carter		019	5	0000	
				003	6	Ardmore					02600
				999	9	Balance of county					99999
	011	000	2			Cherokee		021	5	0000	
				033	6	Tahlequah					72100
				999	9	Balance of county					99999
	012	000	2	999	9	Choctaw		023	6	0000	
	013	000	2	999	9	Cimarron		025	6	0000	
	014	204	1			Cleveland		027	3	5880	
				021	5	Moore					49200
				024	4	Norman					52500
				025	2	Oklahoma City, part					55000
				999	9	Balance of county					99999
	015	000	2	999	9	Coal		029	6	0000	
	016	161	1			Comanche		031	3	4200	
				017	4	Lawton					41850
				999	9	Balance of county					99999
	017	000	2	999	9	Cotton		033	6	0000	
	018	000	2	999	9	Craig		035	6	0000	
	019	286	1			Creek		037	4	8560	
				030	6	Sapulpa					65400
				999	9	Balance of county					99999
	020	000	2			Custer		039	5	0000	
				036	6	Weatherford					79450
				999	9	Balance of county					99999
	021	000	2	999	9	Delaware		041	5	0000	
	022	000	2	999	9	Dewey		043	6	0000	
	023	000	2	999	9	Ellis		045	6	0000	
	024	086	1			Garfield		047	4	2340	
				015	5	Enid					23950
				999	9	Balance of county					99999
	025	000	2	999	9	Garvin		049	5	0000	
	026	000	2			Grady		051	5	0000	
				007	6	Chickasha					13950
				999	9	Balance of county					99999
	027	000	2	999	9	Grant		053	6	0000	
	028	000	2	999	9	Greer		055	6	0000	
	029	000	2	999	9	Harmon		057	6	0000	
	030	000	2	999	9	Harper		059	6	0000	
	031	000	2	999	9	Haskell		061	6	0000	
	032	000	2	999	9	Hughes		063	6	0000	
	033	000	2			Jackson		065	5	0000	
				002	6	Altus					01700
				999	9	Balance of county					99999
	034	000	2	999	9	Jefferson		067	6	0000	
	035	000	2	999	9	Johnston		069	6	0000	
	036	000	2			Kay		071	5	0000	
				028	5	Ponca City					59850
				999	9	Balance of county					99999
	037	000	2	999	9	Kingfisher		073	6	0000	
	038	000	2	999	9	Kiowa		075	6	0000	
	039	000	2	999	9	Latimer		077	6	0000	
	040	000	2	999	9	Le Flore		079	5	0000	
	041	000	2	999	9	Lincoln		081	5	0000	
	042	204	1			Logan		083	5	5880	
				016	6	Guthrie					31700

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
37						Oklahoma	40				
	042					Logan, con.	083	5	5880		
				999	9	Balance of county					99999
	043	000	2	999	9	Love	085	6	0000		
	044	204	1			McClain	087	6	5880		
				025	2	Oklahoma City, part					55000
				999	9	Balance of county					99999
	045	000	2	999	9	McCurtain	089	5	0000		
	046	000	2	999	9	McIntosh	091	6	0000		
	047	000	2	999	9	Major	093	6	0000		
	048	000	2	999	9	Marshall	095	6	0000		
	049	000	2	999	9	Mayes	097	5	0000		
	050	000	2	999	9	Murray	099	6	0000		
	051	000	2			Muskogee	101	4	0000		
				022	5	Muskogee					50050
				999	9	Balance of county					99999
	052	000	2	999	9	Noble	103	6	0000		
	053	000	2	999	9	Nowata	105	6	0000		
	054	000	2	999	9	Okfuskee	107	6	0000		
	055	204	1			Oklahoma	109	1	5880		
				005	6	Bethany					05700
				009	6	Del City					19900
				012	4	Edmond					23200
				020	4	Midwest City					48350
				025	2	Oklahoma City, part					55000
				034	6	The Village					73250
				999	9	Balance of county					99999
	056	000	2			Okmulgee	111	5	0000		
				026	6	Okmulgee					55150
				999	9	Balance of county					99999
	057	286	1			Osage	113	5	8560		
				004	5	Bartlesville, part					04450
				029	6	Sand Springs, part					65300
				035	2	Tulsa, part					75000
				999	9	Balance of county					99999
	058	000	2			Ottawa	115	5	0000		
				019	6	Miami					48000
				999	9	Balance of county					99999
	059	000	2	999	9	Pawnee	117	6	0000		
	060	000	2			Payne	119	4	0000		
				032	5	Stillwater					70300
				999	9	Balance of county					99999
	061	000	2			Pittsburg	121	5	0000		
				018	6	McAlester					44800
				999	9	Balance of county					99999
	062	000	2			Pontotoc	123	5	0000		
				001	6	Ada					00200
				999	9	Balance of county					99999
	063	204	1			Pottawatomie	125	4	5880		
				025	2	Oklahoma City, part					55000
				031	5	Shawnee					66800
				999	9	Balance of county					99999
	064	000	2	999	9	Pushmataha	127	6	0000		
	065	000	2	999	9	Roger Mills	129	6	0000		
	066	286	1			Rogers	131	4	8560		
				008	6	Claremore					14700
				999	9	Balance of county					99999
	067	000	2	999	9	Seminole	133	5	0000		
	068	100	1	999	9	Sequoyah	135	5	2720		
	069	000	2			Stephens	137	5	0000		
				010	6	Duncan					21900
				999	9	Balance of county					99999
	070	000	2	999	9	Texas	139	6	0000		
	071	000	2	999	9	Tillman	141	6	0000		
	072	286	1			Tulsa	143	1	8560		
				006	4	Broken Arrow, part					09050
				027	6	Owasso					56650
				029	6	Sand Springs, part					65300
				035	2	Tulsa, part					75000
				035	2	Tulsa, part					75000
				999	9	Balance of county					99999
	073	286	1			Wagoner	145	5	8560		
				006	4	Broken Arrow, part					09050
				999	9	Balance of county					99999
	074	000	2			Washington	147	5	0000		
				004	5	Bartlesville, part					04450

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
37						Oklahoma	40				
	074			999	9	Washington, con.		147	5	0000	
						Balance of county					99999
	075	000	2	999	9	Washita		149	6	0000	
	076	000	2	999	9	Woods		151	6	0000	
	077	000	2			Woodward		153	6	0000	
				037	6	Woodward					82150
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
38						Oregon	41				
	001	000	2	999	9	Baker		001	6	0000	
	002	000	2			Benton		003	4	0000	
				001	5	Albany, part					01000
				008	5	Corvallis					15800
				999	9	Balance of county					99999
	003	220	1			Clackamas		005	2	6440	
				011	6	Gladstone					29000
				019	5	Lake Oswego, part					40550
				023	6	Milwaukie, part					48650
				025	6	Oregon City					55200
				027	2	Portland, part					59000
				032	6	Tualatin, part					74950
				033	6	West Linn					80150
				999	9	Balance of county					99999
	004	000	2			Clatsop		007	5	0000	
				003	6	Astoria					03150
				999	9	Balance of county					99999
	005	220	1	999	9	Columbia		009	5	6440	
	006	000	2			Coos		011	4	0000	
				007	6	Coos Bay					15250
				999	9	Balance of county					99999
	007	000	2	999	9	Crook		013	6	0000	
	008	000	2	999	9	Curry		015	6	0000	
	009	000	2			Deschutes		017	4	0000	
				005	6	Bend					05800
				999	9	Balance of county					99999
	010	000	2			Douglas		019	4	0000	
				028	6	Roseburg					63650
				999	9	Balance of county					99999
	011	000	2	999	9	Gilliam		021	6	0000	
	012	000	2	999	9	Grant		023	6	0000	
	013	000	2	999	9	Harney		025	6	0000	
	014	000	2	999	9	Hood River		027	6	0000	
	015	176	1			Jackson		029	3	4890	
				002	6	Ashland					03050
				022	5	Medford					47000
				999	9	Balance of county					99999
	016	000	2	999	9	Jefferson		031	6	0000	
	017	000	2			Josephine		033	4	0000	
				012	6	Grants Pass					30550
				999	9	Balance of county					99999
	018	000	2			Klamath		035	4	0000	
				017	6	Klamath Falls					39700
				999	9	Balance of county					99999
	019	000	2	999	9	Lake		037	6	0000	
	020	088	1			Lane		039	2	2400	
				009	3	Eugene					23850
				030	5	Springfield					69600
				999	9	Balance of county					99999
	021	000	2	999	9	Lincoln		041	5	0000	
	022	000	2			Linn		043	4	0000	
				001	5	Albany, part					01000
				020	6	Lebanon					41650
				999	9	Balance of county					99999
	023	000	2	999	9	Malheur		045	5	0000	
	024	244	1			Marion		047	3	7080	
				016	6	Keizer					38500
				029	3	Salem, part					64900
				034	6	Woodburn					83750
				999	9	Balance of county					99999
	025	000	2	999	9	Morrow		049	6	0000	
	026	220	1			Multnomah		051	1	6440	
				013	4	Gresham					31250
				019	5	Lake Oswego, part					40550
				023	6	Milwaukie, part					48650
				027	2	Portland, part					59000
				999	9	Balance of county					99999
	027	244	1			Polk		053	5	7080	
				029	3	Salem, part					64900
				999	9	Balance of county					99999
	028	000	2	999	9	Sherman		055	6	0000	
	029	000	2	999	9	Tillamook		057	6	0000	
	030	000	2			Umatilla		059	4	0000	
				014	6	Hermiston					33700

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
38						Oregon	41				
	030			026	6	Umatilla, con.		059	4	0000	57150
				999	9	Pendleton					99999
						Balance of county					
	031	000	2	018	6	Union		061	6	0000	40350
				999	9	La Grande					99999
						Balance of county					
	032	000	2	999	9	Wallowa		063	6	0000	
	033	000	2	999	9	Wasco		065	6	0000	
				006	6	City of the Dalles					13425
				999	9	Balance of county					99999
	034	220	1			Washington		067	2	6440	
				004	4	Beaverton					05350
				010	6	Forest Grove					26200
				015	5	Hillsboro					34100
				019	5	Lake Oswego, part					40550
				027	2	Portland, part					59000
				031	5	Tigard					73650
				032	6	Tualatin, part					74950
				999	9	Balance of county					99999
	035	000	2	999	9	Wheeler		069	6	0000	
	036	220	1			Yamhill		071	4	6440	
				021	6	McMinnville					45000
				024	6	Newberg					52100
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
39						Pennsylvania	42				
	001	000	2	999	9	Adams		001	4	0000	
	002	217	1			Allegheny		003	0	6280	
				006	6	Baldwin borough					03928
				010	5	Bethel Park borough					06064
				014	6	Brentwood borough					08416
				036	6	Franklin Park borough					27552
				041	6	Harrison Township					32868
				065	5	McCandless Township					45904
				066	5	McKeesport					46256
				074	5	Mount Lebanon					51704
				076	6	Munhall borough					52320
				077	5	Municipality of Monroeville borough					52330
				088	6	North Versailles					55496
				091	4	Penn Hills					59040
				094	2	Pittsburgh					61000
				095	5	Plum borough					61536
				102	5	Ross Township					66356
				105	5	Shaler Township					69596
				107	6	South Park Township					72403
				118	6	Swissvale borough					75816
				129	6	Upper St. Clair					79312
				137	6	West Mifflin borough					83512
				139	6	Whitehall borough					84512
				144	6	Wilkinsburg borough					85188
				999	9	Balance of county					99999
	003	000	2	999	9	Armstrong		005	4	0000	
	004	217	1			Beaver		007	3	6280	
				002	6	Aliquippa					00820
				007	6	Beaver Falls					04792
				999	9	Balance of county					99999
	005	000	2	999	9	Bedford		009	5	0000	
	006	228	1			Berks		011	2	6680	
				075	6	Muhlenberg township					52200
				100	4	Reading					63624
				113	6	Spring township					72824
				999	9	Balance of county					99999
	007	008	1			Blair		013	3	0280	
				004	4	Altoona					02184
				999	9	Balance of county					99999
	008	000	2	999	9	Bradford		015	4	0000	
	009	214	1			Bucks		017	1	6160	
				008	4	Bensalem township					05616
				015	6	Bristol borough					08760
				016	4	Bristol township					08768
				035	5	Falls township					25112
				059	5	Lower Makefield township					44968
				064	6	Lower Southampton township					45112
				071	5	Middletown township					49120
				084	6	Newtown township					54192
				086	5	Northampton township					54688
				130	6	Upper Southampton township					79296
				132	5	Warminster township					80952
				999	9	Balance of county					99999
	010	217	1			Butler		019	3	6280	
				017	6	Butler					10464
				999	9	Balance of county					99999
	011	141	1			Cambria		021	3	3680	
				050	5	Johnstown					38288
				999	9	Balance of county					99999
	012	000	2	999	9	Cameron		023	6	0000	
	013	007	1	999	9	Carbon		025	4	0240	
	014	272	1			Centre		027	3	8050	
				114	5	State College borough					73808
				999	9	Balance of county					99999
	015	214	1			Chester		029	2	6160	
				018	6	Caln township					10824
				024	6	Coatesville					14712
				028	6	East Goshen township					21192
				093	6	Phoenixville borough					60120
				120	5	Tredyffrin township					77344
				131	6	Uwchlan township					79480
				135	6	West Chester borough					82704
				136	6	West Goshen township					83080
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
39						Pennsylvania	42				
	016	000	2	999	9	Clarion		031	5	0000	
	017	000	2	999	9	Clearfield		033	4	0000	
	018	000	2	999	9	Clinton		035	5	0000	
	019	259	1			Columbia		037	4	7560	
				009	6	Berwick borough					05888
				013	6	Bloomsburg					07128
				999	9	Balance of county					99999
	020	000	2			Crawford		039	4	0000	
				069	6	Meadville					48360
				999	9	Balance of county					99999
	021	121	1			Cumberland		041	3	3240	
				020	6	Carlisle borough					11272
				031	6	East Pennsboro township					21680
				038	6	Hampden township					32296
				057	6	Lower Allen township					44832
				122	6	Upper Allen township					78736
				999	9	Balance of county					99999
	022	121	1			Dauphin		043	3	3240	
				040	4	Harrisburg					32800
				062	5	Lower Paxton township					45056
				116	6	Susquehanna township					75528
				117	6	Swatara township					75672
				999	9	Balance of county					99999
	023	214	1			Delaware		045	1	6160	
				005	6	Aston township					03336
				023	5	Chester					13208
				026	6	Darby borough					18152
				043	5	Haverford township					33144
				055	6	Lansdowne borough					41440
				068	6	Marple township					47616
				070	6	Middletown township					49136
				080	6	Nether Providence Township					53112
				083	6	Newtown township					54224
				099	5	Radnor Township					63268
				101	5	Ridley township					64800
				110	6	Springfield					73040
				123	6	Upper Chichester township					78776
				124	4	Upper Darby township					79000
				146	6	Yeadon borough					86968
				999	9	Balance of county					99999
	024	000	2	999	9	Elk		047	5	0000	
	025	087	1			Erie		049	2	2360	
				034	3	Erie					24000
				072	5	Millcreek township					49600
				999	9	Balance of county					99999
	026	217	1			Fayette		051	3	6280	
				121	6	Uniontown					78528
				999	9	Balance of county					99999
	027	000	2	999	9	Forest		053	6	0000	
	028	000	2			Franklin		055	3	0000	
				021	6	Chambersburg borough					12536
				999	9	Balance of county					99999
	029	000	2	999	9	Fulton		057	6	0000	
	030	000	2	999	9	Greene		059	5	0000	
	031	000	2	999	9	Huntingdon		061	5	0000	
	032	000	2			Indiana		063	4	0000	
				048	6	Indiana borough					36816
				999	9	Balance of county					99999
	033	000	2	999	9	Jefferson		065	5	0000	
	034	000	2	999	9	Juniata		067	6	0000	
	035	259	1			Lackawanna		069	3	7560	
				019	6	Carbondale					11232
				027	6	Dunmore borough					20352
				104	4	Scranton					69000
				999	9	Balance of county					99999
	036	155	1			Lancaster		071	2	4000	
				025	6	Columbia borough					15384
				033	6	Ephrata borough					23832
				052	4	Lancaster					41216
				053	6	Lancaster township					41224
				067	5	Manheim township					46896
				999	9	Balance of county					99999
	037	000	2			Lawrence		073	4	0000	
				081	5	New Castle					53368

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
39						Pennsylvania	42				
	037			999	9	Lawrence, con. Balance of county	073	4	0000		999999
	038	121	1	056	6	Lebanon	075	3	3240		42168
				999	9	Lebanon Balance of county					999999
	039	007	1	003	3	Lehigh	077	2	0240		02000
				011	4	Allentown					06088
				032	6	Bethlehem, part					23584
				103	6	Emmaus borough					67576
				108	6	Salisbury township					72632
				140	6	South Whitehall township					84528
				999	9	Whitehall township Balance of county					999999
	040	259	1	044	6	Luzerne	079	2	7560		33408
				051	6	Hazleton					39784
				079	6	Kingston borough					52584
				143	5	Nanticoke					85152
				999	9	Wilkes-Barre Balance of county					999999
	041	303	1	145	5	Lycoming	081	3	9140		85312
				999	9	Williamsport					999999
	042	000	2	999	9	Balance of county					999999
	043	261	1	046	6	McKean	083	5	0000		
				106	6	Mercer	085	3	7610		34064
				999	9	Hermitage					69720
				999	9	Sharon					999999
	044	000	2	999	9	Balance of county					999999
	045	000	2	999	9	Mifflin	087	5	0000		
	046	214	1	001	4	Monroe	089	4	0000		
				022	5	Montgomery	091	1	6160		00156
				029	6	Abington township					12968
				042	6	Cheltenham township					21608
				047	6	East Norriton					33120
				054	6	Hatfield township					35808
				060	4	Horsham township					41432
				061	6	Lansdale borough					44976
				063	6	Lower Merion township					45008
				073	6	Lower Moreland township					45080
				085	5	Lower Providence township					50640
				096	6	Montgomery township					54656
				097	6	Norristown borough					61664
				111	6	Plymouth township					62416
				119	6	Pottstown borough					73088
				125	6	Springfield township					77152
				126	6	Towamencin township					79008
				127	5	Upper Dublin township					79056
				128	5	Upper Gwynedd township					79136
				138	6	Upper Merion township					79176
				141	6	Upper Moreland township					83704
				142	6	West Norriton					84624
				999	9	Whitemarsh township					84888
				999	9	Whitpain township					999999
	047	000	2	999	9	Balance of county					999999
	048	007	1	011	4	Montour	093	6	0000		
				012	6	Northampton	095	3	0240		06088
				030	5	Bethlehem, part					06096
				090	6	Bethlehem township					21648
				999	9	Easton					57672
				999	9	Palmer township					999999
	049	000	2	115	6	Balance of county					75304
				999	9	Northumberland	097	4	0000		999999
				999	9	Sunbury					999999
	050	121	1	999	9	Balance of county					999999
	051	214	1	092	0	Perry	099	5	3240		
	052	199	1	999	9	Philadelphia, coext. with Philadelphia c	101	0	6160		60000
	053	000	2	999	9	Pike	103	5	5660		
	054	000	2	999	9	Potter	105	6	0000		
				098	6	Schuylkill	107	3	0000		
				999	9	Pottsville					62432
				999	9	Balance of county					999999
	055	000	2	999	9	Snyder	109	5	0000		
	056	141	1	999	9	Somerset	111	4	3680		
	057	000	2	999	9	Sullivan	113	6	0000		
	058	000	2	999	9	Susquehanna	115	5	0000		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
39						Pennsylvania	42				
	059	000	2	999	9	Tioga		117	5	0000	
	060	000	2	999	9	Union		119	5	0000	
	061	000	2			Venango		121	4	0000	
				089	6	Oil City					56456
				999	9	Balance of county					99999
	062	000	2			Warren		123	5	0000	
				133	6	Warren					81000
				999	9	Balance of county					99999
	063	217	1			Washington		125	3	6280	
				134	6	Washington					81328
				999	9	Balance of county					99999
	064	000	2	999	9	Wayne		127	5	0000	
	065	217	1			Westmoreland		129	2	6280	
				037	6	Greensburg					31200
				045	5	Hempfield township					33792
				049	6	Jeannette					37784
				058	6	Lower Burrell					44864
				078	6	Municipality of Murrysville borough					52332
				082	6	New Kensington					53736
				087	5	North Huntingdon township					55128
				999	9	Balance of county					99999
	066	259	1	999	9	Wyoming		131	5	7560	
	067	308	1			York		133	2	9280	
				039	6	Hanover borough					32448
				109	6	Springettsbury township					72992
				112	6	Spring Garden township					73168
				147	5	York					87048
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
40						Rhode Island	44				
	001	221	1			Bristol		001	5	6483	
				001	6	Barrington					04960
				002	6	Bristol					09460
				015	6	Warren town					73760
				999	9	Balance of county					99999
	002	221	1			Kent		003	3	6483	
				004	5	Coventry town					18640
				016	4	Warwick					74300
				999	9	Balance of county					99999
	003	000	2			Newport		005	4	0000	
				009	6	Middletown town					45460
				011	5	Newport					49960
				999	9	Balance of county					99999
	004	221	1			Providence		007	1	6483	
				003	6	Central Falls					14140
				005	4	Cranston					19180
				006	5	Cumberland town					20080
				007	4	East Providence					22960
				008	5	Johnston town					37720
				012	5	North Providence					51940
				013	4	Pawtucket					54640
				014	3	Providence					59000
				017	5	Woonsocket					80780
				999	9	Balance of county					99999
	005	221	1			Washington		009	3	6483	
				010	6	Narragansett town					48340
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
41						South Carolina	45				
	001	000	2	999	9	Abbeville	001	6		0000	
	002	018	1			Aiken	003	3		0600	
				001	6	Aiken					00550
				022	6	North Augusta, part					50695
				999	9	Balance of county					99999
	003	000	2	999	9	Allendale	005	6		0000	
	004	118	1			Anderson	007	3		3160	
				002	5	Anderson					01360
				006	6	Clemson, part					14950
				999	9	Balance of county					99999
	005	000	2	999	9	Bamberg	009	6		0000	
	006	000	2	999	9	Barnwell	011	6		0000	
	007	000	2			Beaufort	013	4		0000	
				016	6	Hilton Head Island					34045
				999	9	Balance of county					99999
	008	049	1			Berkeley	015	3		1440	
				011	6	Goose Creek					29815
				015	6	Hanahan					32065
				023	4	North Charleston, part					50875
				028	6	Summerville, part					70270
				999	9	Balance of county					99999
	009	000	2	999	9	Calhoun	017	6		0000	
	010	049	1			Charleston	019	2		1440	
				005	4	Charleston					13330
				019	5	Mount Pleasant					48535
				023	4	North Charleston, part					50875
				028	6	Summerville, part					70270
				999	9	Balance of county					99999
	011	118	1			Cherokee	021	5		3160	
				010	6	Gaffney					28060
				999	9	Balance of county					99999
	012	000	2	999	9	Chester	023	5		0000	
	013	000	2	999	9	Chesterfield	025	5		0000	
	014	000	2	999	9	Clarendon	027	5		0000	
	015	000	2	999	9	Colleton	029	5		0000	
	016	000	2	999	9	Darlington	031	4		0000	
	017	000	2	999	9	Dillon	033	5		0000	
	018	049	1			Dorchester	035	4		1440	
				023	4	North Charleston, part					50875
				028	6	Summerville, part					70270
				999	9	Balance of county					99999
	019	018	1			Edgefield	037	6		0600	
				022	6	North Augusta, part					50695
				999	9	Balance of county					99999
	020	000	2	999	9	Fairfield	039	6		0000	
	021	095	1			Florence	041	3		2655	
				009	5	Florence					25810
				999	9	Balance of county					99999
	022	000	2	999	9	Georgetown	043	5		0000	
	023	118	1			Greenville	045	2		3160	
				012	4	Greenville					30850
				014	6	Greer, part					30985
				018	6	Mauldin					45115
				026	6	Simpsonville					66580
				999	9	Balance of county					99999
	024	000	2			Greenwood	047	4		0000	
				013	6	Greenwood					30895
				999	9	Balance of county					99999
	025	000	2	999	9	Hampton	049	6		0000	
	026	190	1			Horry	051	3		5330	
				020	6	Myrtle Beach					49075
				999	9	Balance of county					99999
	027	000	2	999	9	Jasper	053	6		0000	
	028	000	2	999	9	Kershaw	055	5		0000	
	029	000	2	999	9	Lancaster	057	4		0000	
	030	000	2	999	9	Laurens	059	4		0000	
	031	000	2	999	9	Lee	061	6		0000	
	032	062	1			Lexington	063	3		1760	
				004	6	Cayce					12655
				017	6	Irmo, part					35890
				030	6	West Columbia					75850
				999	9	Balance of county					99999
	033	000	2	999	9	McCormick	065	6		0000	
	034	000	2	999	9	Marion	067	5		0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
41						South Carolina	45				
	035	000	2			Marlboro		069	5	0000	
				003	6	Bennettsville					05680
				999	9	Balance of county					99999
	036	000	2			Newberry		071	5	0000	
				021	6	Newberry					49570
				999	9	Balance of county					99999
	037	000	2			Oconee		073	4	0000	
	038	000	2			Orangeburg		075	4	0000	
				024	6	Orangeburg					53080
				999	9	Balance of county					99999
	039	118	1			Pickens		077	4	3160	
				006	6	Clemson, part					14950
				008	6	Easley					21985
				999	9	Balance of county					99999
	040	062	1			Richland		079	2	1760	
				007	4	Columbia					16000
				017	6	Irmo, part					35890
				999	9	Balance of county					99999
	041	000	2			Saluda		081	6	0000	
	042	118	1			Spartanburg		083	3	3160	
				014	6	Greer, part					30985
				027	5	Spartanburg					68290
				999	9	Balance of county					99999
	043	275	1			Sumter		085	3	8140	
				029	5	Sumter					70405
				999	9	Balance of county					99999
	044	000	2			Union		087	5	0000	
	045	000	2			Williamsburg		089	5	0000	
	046	051	1			York		091	3	1520	
				025	5	Rock Hill					61405
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
42						South Dakota	46				
	001	000	2	999	9	Aurora		003	6	0000	
	002	000	2			Beadle		005	6	0000	
				003	6	Huron					31060
				999	9	Balance of county					99999
	003	000	2	999	9	Bennett		007	6	0000	
	004	000	2	999	9	Bon Homme		009	6	0000	
	005	000	2			Brookings		011	5	0000	
				002	6	Brookings					07580
				999	9	Balance of county					99999
	006	000	2			Brown		013	5	0000	
				001	6	Aberdeen					00100
				999	9	Balance of county					99999
	007	000	2	999	9	Brule		015	6	0000	
	008	000	2	999	9	Buffalo		017	6	0000	
	009	000	2	999	9	Butte		019	6	0000	
	010	000	2	999	9	Campbell		021	6	0000	
	011	000	2	999	9	Charles Mix		023	6	0000	
	012	000	2	999	9	Clark		025	6	0000	
	013	000	2			Clay		027	6	0000	
				008	6	Vermillion					66700
				999	9	Balance of county					99999
	014	000	2			Codington		029	6	0000	
				009	6	Watertown					69300
				999	9	Balance of county					99999
	015	000	2	999	9	Corson		031	6	0000	
	016	000	2	999	9	Custer		033	6	0000	
	017	000	2			Davison		035	6	0000	
				004	6	Mitchell					43100
				999	9	Balance of county					99999
	018	000	2	999	9	Day		037	6	0000	
	019	000	2	999	9	Deuel		039	6	0000	
	020	000	2	999	9	Dewey		041	6	0000	
	021	000	2	999	9	Douglas		043	6	0000	
	022	000	2	999	9	Edmunds		045	6	0000	
	023	000	2	999	9	Fall River		047	6	0000	
	024	000	2	999	9	Faulk		049	6	0000	
	025	000	2	999	9	Grant		051	6	0000	
	026	000	2	999	9	Gregory		053	6	0000	
	027	000	2	999	9	Haakon		055	6	0000	
	028	000	2	999	9	Hamlin		057	6	0000	
	029	000	2	999	9	Hand		059	6	0000	
	030	000	2	999	9	Hanson		061	6	0000	
	031	000	2	999	9	Harding		063	6	0000	
	032	000	2			Hughes		065	6	0000	
				005	6	Pierre					49600
				999	9	Balance of county					99999
	033	000	2	999	9	Hutchinson		067	6	0000	
	034	000	2	999	9	Hyde		069	6	0000	
	035	000	2	999	9	Jackson		071	6	0000	
	036	000	2	999	9	Jerauld		073	6	0000	
	037	000	2	999	9	Jones		075	6	0000	
	038	000	2	999	9	Kingsbury		077	6	0000	
	039	000	2	999	9	Lake		079	6	0000	
	040	000	2	999	9	Lawrence		081	6	0000	
	041	266	1			Lincoln		083	6	7760	
				007	3	Sioux Falls, part					59020
				999	9	Balance of county					99999
	042	000	2	999	9	Lyman		085	6	0000	
	043	000	2	999	9	McCook		087	6	0000	
	044	000	2	999	9	McPherson		089	6	0000	
	045	000	2	999	9	Marshall		091	6	0000	
	046	000	2	999	9	Meade		093	6	0000	
	047	000	2	999	9	Mellette		095	6	0000	
	048	000	2	999	9	Miner		097	6	0000	
	049	266	1			Minnehaha		099	3	7760	
				007	3	Sioux Falls, part					59020
				999	9	Balance of county					99999
	050	000	2	999	9	Moody		101	6	0000	
	051	227	1			Pennington		103	4	6660	
				006	4	Rapid City					52980
				999	9	Balance of county					99999
	052	000	2	999	9	Perkins		105	6	0000	
	053	000	2	999	9	Potter		107	6	0000	
	054	000	2	999	9	Roberts		109	6	0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
42						South Dakota	46				
	055	000	2	999	9	Sanborn		111	6	0000	
	056	000	2	999	9	Shannon		113	6	0000	
	057	000	2	999	9	Spink		115	6	0000	
	058	000	2	999	9	Stanley		117	6	0000	
	059	000	2	999	9	Sully		119	6	0000	
	060	000	2	999	9	Todd		121	6	0000	
	061	000	2	999	9	Tripp		123	6	0000	
	062	000	2	999	9	Turner		125	6	0000	
	063	000	2	999	9	Union		127	6	0000	
	064	000	2	999	9	Walworth		129	6	0000	
	065	000	2			Yankton		135	6	0000	
				010	6	Yankton					73060
				999	9	Balance of county					99999
	066	000	2	999	9	Ziebach		137	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
43						Tennessee	47				
	001	148	1			Anderson	001	4		3840	
				035	5	Oak Ridge, part					55120
				999	9	Balance of county					99999
	002	000	2			Bedford	003	5		0000	
				037	6	Shelbyville					67760
				999	9	Balance of county					99999
	003	000	2			Benton	005	6		0000	
	004	000	2			Bledsoe	007	6		0000	
	005	148	1			Blount	009	4		3840	
				029	6	Maryville					46380
				999	9	Balance of county					99999
	006	000	2			Bradley	011	4		0000	
				008	5	Cleveland					15400
				999	9	Balance of county					99999
	007	000	2			Campbell	013	5		0000	
	008	000	2			Cannon	015	6		0000	
	009	000	2			Carroll	017	5		0000	
	010	140	1			Carter	019	4		3660	
				014	6	Elizabethton					23500
				023	5	Johnson City, part					38320
				999	9	Balance of county					99999
	011	192	1			Cheatham	021	5		5360	
	012	000	2			Chester	023	6		0000	
	013	000	2			Claiborne	025	5		0000	
	014	000	2			Clay	027	6		0000	
	015	000	2			Cocke	029	5		0000	
	016	000	2			Coffee	031	5		0000	
				040	6	Tullahoma, part					75320
				999	9	Balance of county					99999
	017	000	2			Crockett	033	6		0000	
	018	000	2			Cumberland	035	5		0000	
	019	192	1			Davidson	037	1		5360	
				019	6	Goodlettsville, part					29920
				034	2	Nashville-Davidson					52010
				999	9	Balance of county					99999
	020	000	2			Decatur	039	6		0000	
	021	000	2			De Kalb	041	6		0000	
	022	192	1			Dickson	043	5		5360	
	023	000	2			Dyer	045	5		0000	
				012	6	Dyersburg					22200
				999	9	Balance of county					99999
	024	178	1			Fayette	047	5		4920	
	025	000	2			Fentress	049	6		0000	
	026	000	2			Franklin	051	5		0000	
				040	6	Tullahoma, part					75320
				999	9	Balance of county					99999
	027	000	2			Gibson	053	5		0000	
	028	000	2			Giles	055	5		0000	
	029	000	2			Grainger	057	6		0000	
	030	000	2			Greene	059	4		0000	
				020	6	Greeneville					30980
				999	9	Balance of county					99999
	031	000	2			Grundy	061	6		0000	
	032	000	2			Hamblen	063	4		0000	
				032	6	Morristown					50280
				999	9	Balance of county					99999
	033	053	1			Hamilton	065	2		1560	
				006	3	Chattanooga					14000
				013	6	East Ridge					22720
				036	6	Red Bank					61960
				999	9	Balance of county					99999
	034	000	2			Hancock	067	6		0000	
	035	000	2			Hardeman	069	6		0000	
	036	000	2			Hardin	071	6		0000	
	037	140	1			Hawkins	073	5		3660	
				024	5	Kingsport, part					39560
				999	9	Balance of county					99999
	038	000	2			Haywood	075	6		0000	
				005	6	Brownsville					08920
				999	9	Balance of county					99999
	039	000	2			Henderson	077	6		0000	
	040	000	2			Henry	079	5		0000	
	041	000	2			Hickman	081	6		0000	
	042	000	2			Houston	083	6		0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
43						Tennessee	47				
	043	000	2	999	9	Humphreys		085	6	0000	
	044	000	2	999	9	Jackson		087	6	0000	
	045	000	2	999	9	Jefferson		089	5	0000	
	046	000	2	999	9	Johnson		091	6	0000	
	047	148	1			Knox		093	2	3840	
				015	6	Farragut, part					25760
				025	3	Knoxville					40000
				999	9	Balance of county					99999
	048	000	2	999	9	Lake		095	6	0000	
	049	000	2	999	9	Lauderdale		097	6	0000	
	050	000	2			Lawrence		099	5	0000	
				026	6	Lawrenceburg					41340
				999	9	Balance of county					99999
	051	000	2	999	9	Lewis		101	6	0000	
	052	000	2	999	9	Lincoln		103	5	0000	
	053	148	1			Loudon		105	5	3840	
				015	6	Farragut, part					25760
				999	9	Balance of county					99999
	054	000	2			McMinn		107	5	0000	
				001	6	Athens					02320
				999	9	Balance of county					99999
	055	000	2	999	9	McNairy		109	6	0000	
	056	000	2	999	9	Macon		111	6	0000	
	057	134	1			Madison		113	4	3580	
				022	5	Jackson					37640
				999	9	Balance of county					99999
	058	053	1	999	9	Marion		115	6	1560	
	059	000	2	999	9	Marshall		117	6	0000	
	060	000	2			Maury		119	4	0000	
				010	5	Columbia					16540
				999	9	Balance of county					99999
	061	000	2	999	9	Meigs		121	6	0000	
	062	000	2	999	9	Monroe		123	5	0000	
	063	058	1			Montgomery		125	3	1660	
				007	4	Clarksville					15160
				999	9	Balance of county					99999
	064	000	2	999	9	Moore		127	6	0000	
	065	000	2	999	9	Morgan		129	6	0000	
	066	000	2			Obion		131	5	0000	
				041	6	Union City					75940
				999	9	Balance of county					99999
	067	000	2	999	9	Overton		133	6	0000	
	068	000	2	999	9	Perry		135	6	0000	
	069	000	2	999	9	Pickett		137	6	0000	
	070	000	2	999	9	Polk		139	6	0000	
	071	000	2			Putnam		141	4	0000	
				011	6	Cookeville					16920
				999	9	Balance of county					99999
	072	000	2	999	9	Rhea		143	6	0000	
	073	000	2			Roane		145	5	0000	
				035	5	Oak Ridge, part					55120
				999	9	Balance of county					99999
	074	192	1			Robertson		147	5	5360	
				039	6	Springfield					70500
				999	9	Balance of county					99999
	075	192	1			Rutherford		149	3	5360	
				033	5	Murfreesboro					51560
				038	6	Smyrna					69420
				999	9	Balance of county					99999
	076	000	2	999	9	Scott		151	6	0000	
	077	000	2	999	9	Sequatchie		153	6	0000	
	078	148	1	999	9	Sevier		155	4	3840	
	079	178	1			Shelby		157	1	4920	
				002	5	Bartlett					03440
				009	6	Collierville					16420
				018	5	Germantown					28960
				030	1	Memphis					48000
				031	6	Millington					49060
				999	9	Balance of county					99999
	080	000	2	999	9	Smith		159	6	0000	
	081	000	2	999	9	Stewart		161	6	0000	
	082	140	1			Sullivan		163	3	3660	
				004	6	Bristol					08540
				023	5	Johnson City, part					38320

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
43						Tennessee	47				
	082					Sullivan, con.		163	3	3660	
				024	5	Kingsport, part					39560
				999	9	Balance of county					99999
	083	192	1			Sumner		165	3	5360	
				017	6	Gallatin					28540
				019	6	Goodlettsville, part					29920
				021	5	Hendersonville					33280
				999	9	Balance of county					99999
	084	178	1	999	9	Tipton		167	5	4920	
	085	000	2	999	9	Trousdale		169	6	0000	
	086	140	1	999	9	Unicoi		171	6	3660	
	087	148	1	999	9	Union		173	6	3840	
	088	000	2	999	9	Van Buren		175	6	0000	
	089	000	2			Warren		177	5	0000	
				028	6	McMinnville					45100
				999	9	Balance of county					99999
	090	140	1			Washington		179	4	3660	
				023	5	Johnson City, part					38320
				999	9	Balance of county					99999
	091	000	2	999	9	Wayne		181	6	0000	
	092	000	2	999	9	Weakley		183	5	0000	
	093	000	2	999	9	White		185	6	0000	
	094	192	1			Williamson		187	4	5360	
				003	6	Brentwood					08280
				016	6	Franklin					27740
				999	9	Balance of county					99999
	095	192	1			Wilson		189	4	5360	
				027	6	Lebanon					41520
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
44						Texas	48				
	001	000	2			Anderson		001	5	0000	
				116	6	Palestine					54708
				999	9	Balance of county					99999
	002	000	2			Andrews		003	6	0000	
				006	6	Andrews					03216
				999	9	Balance of county					99999
	003	000	2			Angelina		005	4	0000	
				098	5	Lufkin					45072
				999	9	Balance of county					99999
	004	000	2			Aransas		007	6	0000	
	005	302	1			Archer		009	6	9080	
				171	4	Wichita Falls, part					79000
				999	9	Balance of county					99999
	006	000	2			Armstrong		011	6	0000	
	007	000	2			Atascosa		013	5	0000	
	008	000	2			Austin		015	6	0000	
	009	000	2			Bailey		017	6	0000	
	010	000	2			Bandera		019	6	0000	
	011	019	1			Bastrop		021	5	0640	
	012	000	2			Baylor		023	6	0000	
	013	000	2			Bee		025	5	0000	
				016	6	Beeville					07192
				999	9	Balance of county					99999
	014	147	1			Bell		027	3	3810	
				018	6	Belton					07492
				071	6	Harker Heights					32312
				084	4	Killeen					39148
				152	5	Temple					72176
				999	9	Balance of county					99999
	015	248	1			Bexar		029	0	7240	
				095	6	Live Oak					43096
				137	1	San Antonio					65000
				141	6	Schertz, part					66128
				158	6	Universal City					74408
				999	9	Balance of county					99999
	016	000	2			Blanco		031	6	0000	
	017	000	2			Borden		033	6	0000	
	018	000	2			Bosque		035	6	0000	
	019	281	1			Bowie		037	4	8360	
				154	5	Texarkana					72368
				999	9	Balance of county					99999
	020	039	1			Brazoria		039	3	1145	
				004	6	Alvin					02272
				007	6	Angleton					03264
				058	6	Freeport					27420
				086	6	Lake Jackson					40588
				120	6	Pearland, part					56348
				999	9	Balance of county					99999
	021	042	1			Brazos		041	3	1260	
				025	4	Bryan					10912
				032	4	College Station					15976
				999	9	Balance of county					99999
	022	000	2			Brewster		043	6	0000	
	023	000	2			Briscoe		045	6	0000	
	024	000	2			Brooks		047	6	0000	
	025	000	2			Brown		049	5	0000	
				024	6	Brownwood					10780
				999	9	Balance of county					99999
	026	000	2			Burleson		051	6	0000	
	027	000	2			Burnet		053	6	0000	
	028	019	1			Caldwell		055	5	0640	
				140	5	San Marcos, part					65600
				999	9	Balance of county					99999
	029	000	2			Calhoun		057	6	0000	
				127	6	Port Lavaca					58916
				999	9	Balance of county					99999
	030	000	2			Callahan		059	6	0000	
	031	041	1			Cameron		061	2	1240	
				023	4	Brownsville					10768
				072	5	Harlingen					32372
				138	6	San Benito					65036
				999	9	Balance of county					99999
	032	000	2			Camp		063	6	0000	
	033	000	2			Carson		065	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
44						Texas	48				
	034	000	2	999	9	Cass		067	5	0000	
	035	000	2	999	9	Castro		069	6	0000	
	036	127	1			Chambers		071	6	3360	
				013	4	Baytown, part					06128
				999	9	Balance of county					99999
	037	000	2			Cherokee		073	5	0000	
				080	6	Jacksonville					37216
				999	9	Balance of county					99999
	038	000	2	999	9	Childress		075	6	0000	
	039	000	2	999	9	Clay		077	6	0000	
	040	000	2	999	9	Cochran		079	6	0000	
	041	000	2	999	9	Coke		081	6	0000	
	042	000	2	999	9	Coleman		083	6	0000	
	043	067	1			Collin		085	2	1920	
				003	6	Allen					01924
				029	4	Carrollton, part					13024
				039	0	Dallas, part					19000
				063	3	Garland, part					29000
				100	6	McKinney					45744
				124	3	Plano, part					58016
				129	4	Richardson, part					61796
				999	9	Balance of county					99999
	044	000	2	999	9	Collingsworth		087	6	0000	
	045	000	2	999	9	Colorado		089	6	0000	
	046	248	1			Comal		091	4	7240	
				112	5	New Braunfels, part					50820
				141	6	Schertz, part					66128
				999	9	Balance of county					99999
	047	000	2	999	9	Comanche		093	6	0000	
	048	000	2	999	9	Concho		095	6	0000	
	049	000	2			Cooke		097	5	0000	
				060	6	Gainesville					27984
				999	9	Balance of county					99999
	050	147	1			Coryell		099	4	3810	
				036	6	Copperas Cove, part					16624
				064	6	Gatesville					29168
				999	9	Balance of county					99999
	051	000	2	999	9	Cottle		101	6	0000	
	052	000	2	999	9	Crane		103	6	0000	
	053	000	2	999	9	Crockett		105	6	0000	
	054	000	2	999	9	Crosby		107	6	0000	
	055	000	2	999	9	Culberson		109	6	0000	
	056	000	2	999	9	Dallam		111	6	0000	
	057	067	1			Dallas		113	0	1920	
				011	6	Balch Springs					05372
				029	4	Carrollton, part					13024
				030	6	Cedar Hill, part					13492
				035	6	Coppell, part					16612
				039	0	Dallas, part					19000
				044	5	DeSoto					20092
				047	5	Duncanville					21628
				054	6	Farmers Branch					25452
				063	3	Garland, part					29000
				066	4	Grand Prairie, part					30464
				067	5	Grapevine, part					30644
				079	3	Irving					37000
				089	6	Lancaster					41212
				094	5	Lewisville, part					42508
				104	3	Mesquite					47892
				129	4	Richardson, part					61796
				135	6	Rowlett, part					63572
				159	6	University Park					74492
				999	9	Balance of county					99999
	058	000	2			Dawson		115	6	0000	
				088	6	Lamesa					41164
				999	9	Balance of county					99999
	059	000	2			Deaf Smith		117	6	0000	
				074	6	Hereford					33320
				999	9	Balance of county					99999
	060	000	2	999	9	Delta		119	6	0000	
	061	067	1			Denton		121	2	1920	
				029	4	Carrollton, part					13024
				035	6	Coppell, part					16612
				039	0	Dallas, part					19000

Vital Statistics Codes				FIPS Codes				Place		
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St		Cnty	P/S	P/MSA
44						Texas	48			
	061					Denton, con.		121	2	1920
				043	4	Denton				19972
				055	6	Flower Mound, part				26232
				057	2	Fort Worth, part				27000
				067	5	Grapevine, part				30644
				094	5	Lewisville, part				42508
				124	3	Plano, part				58016
				156	6	The Colony				72530
				999	9	Balance of county				99999
	062	000	2	999	9	De Witt		123	6	0000
	063	000	2	999	9	Dickens		125	6	0000
	064	000	2	999	9	Dimmit		127	6	0000
	065	000	2	999	9	Donley		129	6	0000
	066	000	2	999	9	Duval		131	6	0000
	067	000	2	999	9	Eastland		133	6	0000
	068	203	1			Ector		135	3	5800
				114	4	Odessa, part				53388
				999	9	Balance of county				99999
	069	000	2	999	9	Edwards		137	6	0000
	070	067	1			Ellis		139	4	1920
				030	6	Cedar Hill, part				13492
				052	6	Ennis				24348
				066	4	Grand Prairie, part				30464
				101	6	Mansfield, part				46452
				166	6	Waxahachie				76816
				999	9	Balance of county				99999
	071	083	1			El Paso		141	1	2320
				051	1	El Paso				24000
				145	6	Socorro				68636
				999	9	Balance of county				99999
	072	000	2			Erath		143	5	0000
				147	6	Stephenville				70208
				999	9	Balance of county				99999
	073	000	2	999	9	Falls		145	6	0000
	074	000	2	999	9	Fannin		147	6	0000
	075	000	2	999	9	Fayette		149	6	0000
	076	000	2	999	9	Fisher		151	6	0000
	077	000	2	999	9	Floyd		153	6	0000
	078	000	2	999	9	Foard		155	6	0000
	079	127	1			Fort Bend		157	3	3360
				075	0	Houston, part				35000
				108	5	Missouri City, part				48804
				130	6	Richmond				61892
				133	6	Rosenberg				63284
				148	6	Sugar Land				70808
				999	9	Balance of county				99999
	080	000	2	999	9	Franklin		159	6	0000
	081	000	2	999	9	Freestone		161	6	0000
	082	000	2	999	9	Frio		163	6	0000
	083	000	2	999	9	Gaines		165	6	0000
	084	107	1			Galveston		167	3	2920
				059	6	Friendswood, part				27648
				062	4	Galveston				28068
				087	6	La Marque				41116
				092	5	League City, part				41980
				155	5	Texas City				72392
				999	9	Balance of county				99999
	085	000	2	999	9	Garza		169	6	0000
	086	000	2	999	9	Gillespie		171	6	0000
	087	000	2	999	9	Glasscock		173	6	0000
	088	000	2	999	9	Goliad		175	6	0000
	089	000	2	999	9	Gonzales		177	6	0000
	090	000	2			Gray		179	6	0000
				117	6	Pampa				54912
				999	9	Balance of county				99999
	091	263	1			Grayson		181	4	7640
				042	6	Denison				19900
				143	5	Sherman				67496
				999	9	Balance of county				99999
	092	167	1			Gregg		183	3	4420
				083	6	Kilgore, part				39124
				096	4	Longview, part				43888
				999	9	Balance of county				99999
	093	000	2	999	9	Grimes		185	6	0000

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
44						Texas	48				
	094	248	1			Guadalupe	187	4		7240	
				112	5	New Braunfels, part					50820
				141	6	Schertz, part					66128
				142	6	Seguin					66644
				999	9	Balance of county					99999
	095	000	2			Hale	189	5		0000	
				123	6	Plainview					57980
				999	9	Balance of county					99999
	096	000	2	999	9	Hall	191	6		0000	
	097	000	2	999	9	Hamilton	193	6		0000	
	098	000	2	999	9	Hansford	195	6		0000	
	099	000	2	999	9	Hardeman	197	6		0000	
	100	025	1	999	9	Hardin	199	5		0840	
	101	127	1			Harris	201	0		3360	
				013	4	Baytown, part					06128
				017	6	Bellaire					07300
				040	5	Deer Park					19624
				059	6	Friendswood, part					27648
				061	6	Galena Park					27996
				075	0	Houston, part					35000
				076	6	Humble					35348
				090	5	La Porte					41440
				092	5	League City, part					41980
				108	5	Missouri City, part					48804
				119	3	Pasadena					56000
				120	6	Pearland, part					56348
				146	6	South Houston					69020
				169	6	West University Place					77956
				999	9	Balance of county					99999
	102	167	1			Harrison	203	4		4420	
				096	4	Longview, part					43888
				102	6	Marshall					46776
				999	9	Balance of county					99999
	103	000	2	999	9	Hartley	205	6		0000	
	104	000	2	999	9	Haskell	207	6		0000	
	105	019	1			Hays	209	4		0640	
				140	5	San Marcos, part					65600
				999	9	Balance of county					99999
	106	000	2	999	9	Hemphill	211	6		0000	
	107	067	1			Henderson	213	4		1920	
				009	6	Athens					04504
				999	9	Balance of county					99999
	108	175	1			Hidalgo	215	2		4880	
				045	6	Donna					20884
				049	5	Edinburg					22660
				099	4	McAllen					45384
				103	6	Mercedes					47700
				107	5	Mission					48768
				122	5	Pharr					57200
				139	6	San Juan					65516
				168	6	Weslaco					77272
				999	9	Balance of county					99999
	109	000	2	999	9	Hill	217	5		0000	
	110	000	2			Hockley	219	6		0000	
				093	6	Levelland					42448
				999	9	Balance of county					99999
	111	103	1	999	9	Hood	221	5		2800	
	112	000	2			Hopkins	223	5		0000	
				149	6	Sulphur Springs					70904
				999	9	Balance of county					99999
	113	000	2	999	9	Houston	225	6		0000	
	114	000	2			Howard	227	5		0000	
				020	6	Big Spring					08236
				999	9	Balance of county					99999
	115	000	2	999	9	Hudspeth	229	6		0000	
	116	067	1			Hunt	231	4		1920	
				068	6	Greenville					30920
				999	9	Balance of county					99999
	117	000	2			Hutchinson	233	5		0000	
				021	6	Borger					09556
				999	9	Balance of county					99999
	118	000	2	999	9	Irion	235	6		0000	
	119	000	2	999	9	Jack	237	6		0000	
	120	000	2	999	9	Jackson	239	6		0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
44						Texas	48				
	121	000	2	999	9	Jasper		241	5	0000	
	122	000	2	999	9	Jeff Davis		243	6	0000	
	123	025	1			Jefferson		245	3	0840	
				014	3	Beaumont					07000
				069	6	Groves					31328
				111	6	Nederland					50580
				125	4	Port Arthur					58820
				128	6	Port Neches					58940
				999	9	Balance of county					99999
	124	000	2	999	9	Jim Hogg		247	6	0000	
	125	000	2			Jim Wells		249	5	0000	
				002	6	Alice					01852
				999	9	Balance of county					99999
	126	103	1			Johnson		251	4	2800	
				027	6	Burleson, part					11428
				031	6	Cleburne					15364
				101	6	Mansfield, part					46452
				999	9	Balance of county					99999
	127	000	2			Jones		253	6	0000	
				001	3	Abilene, part					01000
				999	9	Balance of county					99999
	128	000	2	999	9	Karnes		255	6	0000	
	129	067	1			Kaufman		257	4	1920	
				039	0	Dallas, part					19000
				153	6	Terrell					72284
				999	9	Balance of county					99999
	130	000	2	999	9	Kendall		259	6	0000	
	131	000	2	999	9	Kenedy		261	6	0000	
	132	000	2	999	9	Kent		263	6	0000	
	133	000	2			Kerr		265	5	0000	
				082	6	Kerrville					39040
				999	9	Balance of county					99999
	134	000	2	999	9	Kimble		267	6	0000	
	135	000	2	999	9	King		269	6	0000	
	136	000	2	999	9	Kinney		271	6	0000	
	137	000	2			Kleberg		273	5	0000	
				037	2	Corpus Christi, part					17000
				085	5	Kingsville					39352
				999	9	Balance of county					99999
	138	000	2	999	9	Knox		275	6	0000	
	139	000	2			Lamar		277	5	0000	
				118	6	Paris					55080
				999	9	Balance of county					99999
	140	000	2	999	9	Lamb		279	6	0000	
	141	000	2			Lampasas		281	6	0000	
				036	6	Copperas Cove, part					16624
				999	9	Balance of county					99999
	142	000	2	999	9	La Salle		283	6	0000	
	143	000	2	999	9	Lavaca		285	6	0000	
	144	000	2	999	9	Lee		287	6	0000	
	145	000	2	999	9	Leon		289	6	0000	
	146	127	1	999	9	Liberty		291	4	3360	
	147	000	2	999	9	Limestone		293	6	0000	
	148	000	2	999	9	Lipscomb		295	6	0000	
	149	000	2	999	9	Live Oak		297	6	0000	
	150	000	2	999	9	Llano		299	6	0000	
	151	000	2	999	9	Loving		301	6	0000	
	152	170	1			Lubbock		303	3	4600	
				097	3	Lubbock					45000
				999	9	Balance of county					99999
	153	000	2	999	9	Lynn		305	6	0000	
	154	000	2	999	9	McCulloch		307	6	0000	
	155	295	1			McLennan		309	3	8800	
				164	3	Waco					76000
				999	9	Balance of county					99999
	156	000	2	999	9	McMullen		311	6	0000	
	157	000	2	999	9	Madison		313	6	0000	
	158	000	2	999	9	Marion		315	6	0000	
	159	000	2			Martin		317	6	0000	
				105	4	Midland, part					48072
				999	9	Balance of county					99999
	160	000	2	999	9	Mason		319	6	0000	
	161	000	2			Matagorda		321	5	0000	
				012	6	Bay City					05984

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
44						Texas	48				
	161			999	9	Matagorda, con.		321	5	0000	
						Balance of county					99999
	162	000	2			Maverick		323	5	0000	
				048	6	Eagle Pass					21892
				999	9	Balance of county					99999
	163	000	2	999	9	Medina		325	5	0000	
	164	000	2	999	9	Menard		327	6	0000	
	165	203	1			Midland		329	3	5800	
				105	4	Midland, part					48072
				114	4	Odessa, part					53388
				999	9	Balance of county					99999
	166	000	2	999	9	Milam		331	6	0000	
	167	000	2	999	9	Mills		333	6	0000	
	168	000	2	999	9	Mitchell		335	6	0000	
	169	000	2	999	9	Montague		337	6	0000	
	170	127	1			Montgomery		339	3	3360	
				034	5	Conroe					16432
				075	0	Houston, part					35000
				999	9	Balance of county					99999
	171	000	2			Moore		341	6	0000	
				046	6	Dumas					21556
				999	9	Balance of county					99999
	172	000	2	999	9	Morris		343	6	0000	
	173	000	2	999	9	Motley		345	6	0000	
	174	000	2			Nacogdoches		347	4	0000	
				110	5	Nacogdoches					50256
				999	9	Balance of county					99999
	175	000	2			Navarro		349	5	0000	
				038	6	Corsicana					17060
				999	9	Balance of county					99999
	176	000	2	999	9	Newton		351	6	0000	
	177	000	2			Nolan		353	6	0000	
				150	6	Sweetwater					71540
				999	9	Balance of county					99999
	178	065	1			Nueces		355	2	1880	
				037	2	Corpus Christi, part					17000
				126	6	Portland, part					58904
				131	6	Robstown					62600
				999	9	Balance of county					99999
	179	000	2	999	9	Ochiltree		357	6	0000	
	180	000	2	999	9	Oldham		359	6	0000	
	181	025	1			Orange		361	4	0840	
				115	6	Orange					54132
				163	6	Vidor					75476
				999	9	Balance of county					99999
	182	000	2			Palo Pinto		363	5	0000	
				106	6	Mineral Wells, part					48684
				999	9	Balance of county					99999
	183	000	2	999	9	Panola		365	6	0000	
	184	103	1			Parker		367	4	2800	
				106	6	Mineral Wells, part					48684
				167	6	Weatherford					76864
				999	9	Balance of county					99999
	185	000	2	999	9	Parmer		369	6	0000	
	186	000	2	999	9	Pecos		371	6	0000	
	187	000	2	999	9	Polk		373	5	0000	
	188	009	1			Potter		375	4	0320	
				005	3	Amarillo, part					03000
				999	9	Balance of county					99999
	189	000	2	999	9	Presidio		377	6	0000	
	190	000	2	999	9	Rains		379	6	0000	
	191	009	1			Randall		381	4	0320	
				005	3	Amarillo, part					03000
				028	6	Canyon					12532
				999	9	Balance of county					99999
	192	000	2	999	9	Reagan		383	6	0000	
	193	000	2	999	9	Real		385	6	0000	
	194	000	2	999	9	Red River		387	6	0000	
	195	000	2			Reeves		389	6	0000	
				121	6	Pecos					56516
				999	9	Balance of county					99999
	196	000	2	999	9	Refugio		391	6	0000	
	197	000	2	999	9	Roberts		393	6	0000	
	198	000	2	999	9	Robertson		395	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
44						Texas	48				
	199	067	1			Rockwall		397	5	1920	
				039	0	Dallas, part					19000
				063	3	Garland, part					29000
				132	6	Rockwall					62828
				135	6	Rowlett, part					63572
				999	9	Balance of county					99999
	200	000	2	999	9	Runnels		399	6	0000	
	201	000	2			Rusk		401	5	0000	
				073	6	Henderson					33212
				083	6	Kilgore, part					39124
				999	9	Balance of county					99999
	202	000	2	999	9	Sabine		403	6	0000	
	203	000	2	999	9	San Augustine		405	6	0000	
	204	000	2	999	9	San Jacinto		407	6	0000	
	205	065	1			San Patricio		409	4	1880	
				037	2	Corpus Christi, part					17000
				126	6	Portland, part					58904
				999	9	Balance of county					99999
	206	000	2	999	9	San Saba		411	6	0000	
	207	000	2	999	9	Schleicher		413	6	0000	
	208	000	2			Scurry		415	6	0000	
				144	6	Snyder					68624
				999	9	Balance of county					99999
	209	000	2	999	9	Shackelford		417	6	0000	
	210	000	2	999	9	Shelby		419	6	0000	
	211	000	2	999	9	Sherman		421	6	0000	
	212	288	1			Smith		423	3	8640	
				157	4	Tyler					74144
				999	9	Balance of county					99999
	213	000	2	999	9	Somervell		425	6	0000	
	214	000	2	999	9	Starr		427	5	0000	
	215	000	2	999	9	Stephens		429	6	0000	
	216	000	2	999	9	Sterling		431	6	0000	
	217	000	2	999	9	Stonewall		433	6	0000	
	218	000	2	999	9	Sutton		435	6	0000	
	219	000	2	999	9	Swisher		437	6	0000	
	220	103	1			Tarrant		439	0	2800	
				008	2	Arlington					04000
				015	5	Bedford					07132
				019	6	Benbrook					07552
				027	6	Burleson, part					11428
				033	6	Colleyville					15988
				053	5	Eules					24768
				055	6	Flower Mound, part					26232
				056	6	Forest Hill					26544
				057	2	Fort Worth, part					27000
				066	4	Grand Prairie, part					30464
				067	5	Grapevine, part					30644
				070	5	Haltom City					31928
				078	5	Hurst					35576
				081	6	Keller					38632
				101	6	Mansfield, part					46452
				113	5	North Richland Hills					52356
				165	6	Watauga					76672
				170	6	White Settlement					78544
				999	9	Balance of county					99999
	221	001	1			Taylor		441	3	0040	
				001	3	Abilene, part					01000
				999	9	Balance of county					99999
	222	000	2	999	9	Terrell		443	6	0000	
	223	000	2	999	9	Terry		445	6	0000	
	224	000	2	999	9	Throckmorton		447	6	0000	
	225	000	2			Titus		449	6	0000	
				109	6	Mount Pleasant					49800
				999	9	Balance of county					99999
	226	247	1			Tom Green		451	4	7200	
				136	4	San Angelo					64472
				999	9	Balance of county					99999
	227	019	1			Travis		453	1	0640	
				010	2	Austin, part					05000
				134	5	Round Rock, part					63500
				999	9	Balance of county					99999
	228	000	2	999	9	Trinity		455	6	0000	
	229	000	2	999	9	Tyler		457	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
44						Texas	48				
	230	167	1	999	9	Upshur		459	5	4420	
	231	000	2	999	9	Upton		461	6	0000	
	232	000	2			Uvalde		463	6	0000	
				160	6	Uvalde					74588
				999	9	Balance of county					99999
	233	000	2			Val Verde		465	5	0000	
				041	5	Del Rio					19792
				999	9	Balance of county					99999
	234	000	2	999	9	Van Zandt		467	5	0000	
	235	292	1			Victoria		469	4	8750	
				162	4	Victoria					75428
				999	9	Balance of county					99999
	236	000	2			Walker		471	4	0000	
				077	5	Huntsville					35528
				999	9	Balance of county					99999
	237	127	1	999	9	Waller		473	6	3360	
	238	000	2	999	9	Ward		475	6	0000	
	239	000	2			Washington		477	5	0000	
				022	6	Brenham					10156
				999	9	Balance of county					99999
	240	157	1			Webb		479	3	4080	
				091	3	Laredo					41464
				999	9	Balance of county					99999
	241	000	2			Wharton		481	5	0000	
				050	6	El Campo					22864
				999	9	Balance of county					99999
	242	000	2	999	9	Wheeler		483	6	0000	
	243	302	1			Wichita		485	3	9080	
				026	6	Burkburnett					11368
				171	4	Wichita Falls, part					79000
				999	9	Balance of county					99999
	244	000	2			Wilbarger		487	6	0000	
				161	6	Vernon					75308
				999	9	Balance of county					99999
	245	000	2	999	9	Willacy		489	6	0000	
	246	019	1			Williamson		491	3	0640	
				010	2	Austin, part					05000
				065	6	Georgetown					29336
				134	5	Round Rock, part					63500
				151	6	Taylor					71948
				999	9	Balance of county					99999
	247	248	1	999	9	Wilson		493	6	7240	
	248	000	2	999	9	Winkler		495	6	0000	
	249	000	2	999	9	Wise		497	5	0000	
	250	000	2	999	9	Wood		499	5	0000	
	251	000	2	999	9	Yoakum		501	6	0000	
	252	000	2	999	9	Young		503	6	0000	
	253	000	2	999	9	Zapata		505	6	0000	
	254	000	2	999	9	Zavala		507	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
45						Utah	49				
	001	000	2	999	9	Beaver		001	6	0000	
	002	000	2			Box Elder		003	5	0000	
				003	6	Brigham City					08460
				999	9	Balance of county					99999
	003	000	2			Cache		005	4	0000	
				009	5	Logan					45860
				999	9	Balance of county					99999
	004	000	2	999	9	Carbon		007	6	0000	
	005	000	2	999	9	Daggett		009	6	0000	
	006	246	1			Davis		011	3	7160	
				002	5	Bountiful					07690
				005	6	Centerville					11980
				006	6	Clearfield					13850
				007	6	Kaysville					40360
				008	5	Layton					43660
				999	9	Balance of county					99999
	007	000	2	999	9	Duchesne		013	6	0000	
	008	000	2	999	9	Emery		015	6	0000	
	009	000	2	999	9	Garfield		017	6	0000	
	010	000	2	999	9	Grand		019	6	0000	
	011	000	2			Iron		021	6	0000	
				004	6	Cedar City					11320
				999	9	Balance of county					99999
	012	000	2	999	9	Juab		023	6	0000	
	013	000	2	999	9	Kane		025	6	0000	
	014	000	2	999	9	Millard		027	6	0000	
	015	000	2	999	9	Morgan		029	6	0000	
	016	000	2	999	9	Piute		031	6	0000	
	017	000	2	999	9	Rich		033	6	0000	
	018	246	1			Salt Lake		035	1	7160	
				010	6	Midvale					49710
				011	5	Murray					53230
				017	6	Riverton					64340
				020	3	Salt Lake City					67000
				021	4	Sandy					67550
				022	6	South Jordan					70850
				024	6	South Salt Lake					71070
				028	5	West Jordan					82950
				029	4	West Valley City					83445
				999	9	Balance of county					99999
	019	000	2	999	9	San Juan		037	6	0000	
	020	000	2	999	9	Sanpete		039	6	0000	
	021	000	2	999	9	Sevier		041	6	0000	
	022	000	2	999	9	Summit		043	6	0000	
	023	000	2			Tooele		045	5	0000	
				027	6	Tooele					76680
				999	9	Balance of county					99999
	024	000	2	999	9	Uintah		047	6	0000	
	025	222	1			Utah		049	2	6520	
				001	6	American Fork					01310
				014	4	Orem					57300
				015	6	Pleasant Grove					60930
				016	4	Provo					62470
				025	6	Spanish Fork					71290
				026	6	Springville					72280
				999	9	Balance of county					99999
	026	000	2	999	9	Wasatch		051	6	0000	
	027	000	2			Washington		053	5	0000	
				019	5	St. George					65330
				999	9	Balance of county					99999
	028	000	2	999	9	Wayne		055	6	0000	
	029	246	1			Weber		057	3	7160	
				012	6	North Ogden					55100
				013	4	Ogden					55980
				018	6	Roy					65110
				023	6	South Ogden					70960
				999	9	Balance of county					99999

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
46						Vermont	50				
	001	000	2	999	9	Addison		001	5	0000	
	002	000	2	999	9	Bennington		003	5	0000	
	003	000	2	999	9	Caledonia		005	5	0000	
	004	044	1			Chittenden		007	3	1303	
				001	5	Burlington					10675
				003	6	South Burlington					66175
				999	9	Balance of county					99999
	005	000	2	999	9	Essex		009	6	0000	
	006	044	1	999	9	Franklin		011	5	1303	
	007	044	1	999	9	Grand Isle		013	6	1303	
	008	000	2	999	9	Lamoille		015	6	0000	
	009	000	2	999	9	Orange		017	5	0000	
	010	000	2	999	9	Orleans		019	6	0000	
	011	000	2			Rutland		021	4	0000	
				002	6	Rutland					61225
				999	9	Balance of county					99999
	012	000	2	999	9	Washington		023	4	0000	
	013	000	2	999	9	Windham		025	5	0000	
	014	000	2	999	9	Windsor		027	4	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
47						Virginia	51				
	001	000	2	999	9	Accomack		001	5	0000	
	002	052	1	999	9	Albemarle		003	4	1540	
	003	296	1	001	3	Alexandria city		510	3	8840	01000
	004	000	2	999	9	Alleghany		005	6	0000	
	005	000	2	999	9	Amelia		007	6	0000	
	006	171	1	999	9	Amherst		009	5	4640	
	007	000	2	999	9	Appomattox		011	6	0000	
	008	296	1	002	3	Arlington		013	3	8840	03000
	009	000	2	999	9	Augusta		015	4	0000	
	010	000	2	999	9	Bath		017	6	0000	
	011	171	1	999	9	Bedford		019	5	4640	
	012	171	1	999	9	Bedford city		515	6	4640	99999
	013	000	2	999	9	Bland		021	6	0000	
	014	234	1	999	9	Botetourt		023	6	6800	
	015	140	1	004	6	Bristol city		520	6	3660	09816
	016	000	2	999	9	Brunswick		025	6	0000	
	017	000	2	999	9	Buchanan		027	5	0000	
	018	000	2	999	9	Buckingham		029	6	0000	
	019	000	2	999	9	Buena Vista city		530	6	0000	99999
	020	171	1	999	9	Campbell		031	5	4640	
	021	000	2	999	9	Caroline		033	6	0000	
	022	000	2	999	9	Carroll		035	5	0000	
	023	232	1	999	9	Charles City		036	6	6760	
	024	000	2	999	9	Charlotte		037	6	0000	
	025	052	1	005	5	Charlottesville city		540	5	1540	14968
	026	200	1	006	3	Chesapeake city		550	3	5720	16000
	027	232	1	999	9	Chesterfield		041	3	6760	
	028	296	1	999	9	Clarke		043	6	8840	
	029	000	2	999	9	Clifton Forge city		560	6	0000	99999
	030	232	1	008	6	Colonial Heights city		570	6	6760	18448
	031	000	2	999	9	Covington city		580	6	0000	99999
	032	000	2	999	9	Craig		045	6	0000	
	033	296	1	999	9	Culpeper		047	5	8840	
	034	000	2	999	9	Cumberland		049	6	0000	
	035	068	1	009	4	Danville city		590	4	1950	21344
	036	000	2	999	9	Dickenson		051	6	0000	
	037	232	1	999	9	Dinwiddie		053	6	6760	
	038	000	2	999	9	Emporia city		595	6	0000	99999
	039	000	2	999	9	Essex		057	6	0000	
	040	296	1			Fairfax		059	1	8840	
				015	6	Herndon					36648
				032	6	Vienna					81072
				999	9	Balance of county					99999
	041	296	1	010	6	Fairfax city		600	6	8840	26496
	042	296	1	999	9	Falls Church city		610	6	8840	99999
	043	296	1	999	9	Fauquier		061	5	8840	
	044	000	2	999	9	Floyd		063	6	0000	
	045	052	1	999	9	Fluvanna		065	6	1540	
	046	000	2	999	9	Franklin		067	5	0000	
	047	000	2	999	9	Franklin city		620	6	0000	99999
	048	000	2	999	9	Frederick		069	5	0000	
	049	296	1	011	6	Fredericksburg city		630	6	8840	29744
	050	000	2	999	9	Galax city		640	6	0000	99999
	051	000	2	999	9	Giles		071	6	0000	
	052	200	1	999	9	Gloucester		073	5	5720	
	053	232	1	999	9	Goochland		075	6	6760	
	054	000	2	999	9	Grayson		077	6	0000	
	055	052	1	999	9	Greene		079	6	1540	
	056	000	2	999	9	Greensville		081	6	0000	
	057	000	2	999	9	Halifax		083	5	0000	
	057	000	2	999	9	South Boston city		083	5	0000	99999
	058	200	1	013	3	Hampton city		650	3	5720	35000
	059	232	1	999	9	Hanover		085	4	6760	
	060	000	2	014	5	Harrisonburg city		660	5	0000	35624
	061	232	1	999	9	Henrico		087	3	6760	
	062	000	2	999	9	Henry		089	4	0000	
	063	000	2	999	9	Highland		091	6	0000	
	064	232	1	016	6	Hopewell city		670	6	6760	38424
	065	200	1	999	9	Isle of Wight		093	5	5720	
	066	200	1	999	9	James City		095	5	5720	
	067	000	2	999	9	King and Queen		097	6	0000	
	068	296	1	999	9	King George		099	6	8840	
	069	000	2	999	9	King William		101	6	0000	
	070	000	2	999	9	Lancaster		103	6	0000	

Vital Statistics Codes					FIPS Codes					
St	Cnty	P/MSA	M/NM	City P/S	Area Names	St	Cnty	P/S	P/MSA	Place
47					Virginia	51				
	071	000	2	999 9	Lee		105	6	0000	
	072	000	2	999 9	Lexington city		678	6	0000	99999
	073	296	1		Loudoun		107	4	8840	
				017 6	Leesburg					44984
				999 9	Balance of county					99999
	074	000	2	999 9	Louisa		109	6	0000	
	075	000	2	999 9	Lunenburg		111	6	0000	
	076	171	1	018 4	Lynchburg city		680	4	4640	47672
	077	000	2	999 9	Madison		113	6	0000	
	078	296	1	019 5	Manassas city		683	5	8840	48952
	079	296	1	999 9	Manassas Park city		685	6	8840	99999
	080	000	2	020 6	Martinsville city		690	6	0000	49784
	081	200	1	999 9	Mathews		115	6	5720	
	082	000	2	999 9	Mecklenburg		117	5	0000	
	083	000	2	999 9	Middlesex		119	6	0000	
	084	000	2		Montgomery		121	4	0000	
				003 5	Blacksburg					07784
				007 6	Christiansburg					16608
				999 9	Balance of county					99999
	085	000	2	999 9	Nelson		125	6	0000	
	086	232	1	999 9	New Kent		127	6	6760	
	087	200	1	021 3	Newport News city		700	3	5720	56000
	088	200	1	022 2	Norfolk city		710	2	5720	57000
	089	000	2	999 9	Northampton		131	6	0000	
	090	000	2	999 9	Northumberland		133	6	0000	
	091	000	2	999 9	Norton city		720	6	0000	99999
	092	000	2	999 9	Nottoway		135	6	0000	
	093	000	2	999 9	Orange		137	6	0000	
	094	000	2	999 9	Page		139	6	0000	
	095	000	2	999 9	Patrick		141	6	0000	
	096	232	1	023 5	Petersburg city		730	5	6760	61832
	097	068	1	999 9	Pittsylvania		143	4	1950	
	098	200	1	024 6	Poquoson city		735	6	5720	63768
	099	200	1	025 3	Portsmouth city		740	3	5720	64000
	100	232	1	999 9	Powhatan		145	6	6760	
	101	000	2	999 9	Prince Edward		147	6	0000	
	102	232	1	999 9	Prince George		149	5	6760	
	103	296	1	999 9	Prince William		153	3	8840	
	104	000	2	999 9	Pulaski		155	5	0000	
	105	000	2	026 6	Radford city		750	6	0000	65392
	106	000	2	999 9	Rappahannock		157	6	0000	
	107	000	2	999 9	Richmond		159	6	0000	
	108	232	1	027 3	Richmond city		760	3	6760	67000
	109	234	1	999 9	Roanoke		161	4	6800	
	110	234	1	028 4	Roanoke city		770	4	6800	68000
	111	000	2	999 9	Rockbridge		163	6	0000	
	112	000	2	999 9	Rockingham		165	4	0000	
	113	000	2	999 9	Russell		167	5	0000	
	114	234	1	029 6	Salem city		775	6	6800	70000
	115	140	1	999 9	Scott		169	6	3660	
	116	000	2	999 9	Shenandoah		171	5	0000	
	117	000	2	999 9	Smyth		173	5	0000	
	118	000	2	999 9	Southampton		175	6	0000	
	120	296	1	999 9	Spotsylvania		177	4	8840	
	121	296	1	999 9	Stafford		179	4	8840	
	122	000	2	030 6	Staunton city		790	6	0000	75216
	123	200	1	031 4	Suffolk city		800	4	5720	76432
	124	000	2	999 9	Surry		181	6	0000	
	125	000	2	999 9	Sussex		183	6	0000	
	126	000	2	999 9	Tazewell		185	5	0000	
	127	200	1	033 2	Virginia Beach city		810	2	5720	82000
	128	296	1		Warren		187	5	8840	
				012 6	Front Royal					29968
				999 9	Balance of county					99999
	129	140	1	999 9	Washington		191	5	3660	
	130	000	2	034 6	Waynesboro city		820	6	0000	83680
	131	000	2	999 9	Westmoreland		193	6	0000	
	132	200	1	035 6	Williamsburg city		830	6	5720	86160
	133	000	2	036 6	Winchester city		840	6	0000	86720
	134	000	2	999 9	Wise		195	5	0000	
	135	000	2	999 9	Wythe		197	5	0000	
	136	200	1	999 9	York		199	5	5720	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
48						Washington	53				
	001	000	2	999	9	Adams		001	6	0000	
	002	000	2	999	9	Asotin		003	6	0000	
	003	231	1			Benton		005	3	6740	
				014	5	Kennewick					35275
				033	5	Richland					58235
				999	9	Balance of county					99999
	004	000	2			Chelan		007	4	0000	
				041	6	Wenatchee					77105
				999	9	Balance of county					99999
	005	000	2			Clallam		009	4	0000	
				028	6	Port Angeles					55365
				999	9	Balance of county					99999
	006	220	1			Clark		011	3	6440	
				039	5	Vancouver					74060
				999	9	Balance of county					99999
	007	000	2	999	9	Columbia		013	6	0000	
	008	000	2			Cowlitz		015	4	0000	
				013	6	Kelso					35065
				018	5	Longview					40245
				999	9	Balance of county					99999
	009	000	2	999	9	Douglas		017	5	0000	
	010	000	2	999	9	Ferry		019	6	0000	
	011	231	1			Franklin		021	5	6740	
				027	6	Pasco					53545
				999	9	Balance of county					99999
	012	000	2	999	9	Garfield		023	6	0000	
	013	000	2			Grant		025	4	0000	
				022	6	Moses Lake					47245
				999	9	Balance of county					99999
	014	000	2			Grays Harbor		027	4	0000	
				001	6	Aberdeen					00100
				999	9	Balance of county					99999
	015	260	1			Island		029	4	7600	
				025	6	Oak Harbor					50360
				999	9	Balance of county					99999
	016	000	2	999	9	Jefferson		031	6	0000	
	017	260	1			King		033	0	7600	
				003	5	Auburn					03180
				004	4	Bellevue					05210
				006	6	Bothell, part					07380
				009	6	Des Moines					17635
				015	5	Kent					35415
				016	5	Kirkland					35940
				021	6	Mercer Island					45005
				031	5	Redmond					57535
				032	5	Renton					57745
				034	1	Seattle					63000
				038	6	Tukwila					72625
				999	9	Balance of county					99999
	018	040	1			Kitsap		035	3	1150	
				007	5	Bremerton					07695
				999	9	Balance of county					99999
	019	000	2			Kittitas		037	5	0000	
				011	6	Ellensburg					21240
				999	9	Balance of county					99999
	020	000	2	999	9	Klickitat		039	6	0000	
	021	000	2			Lewis		041	4	0000	
				008	6	Centralia					11160
				999	9	Balance of county					99999
	022	000	2	999	9	Lincoln		043	6	0000	
	023	000	2	999	9	Mason		045	5	0000	
	024	000	2	999	9	Okanogan		047	5	0000	
	025	000	2	999	9	Pacific		049	6	0000	
	026	000	2	999	9	Pend Oreille		051	6	0000	
	027	277	1			Pierce		053	1	8200	
				030	6	Puyallup					56695
				037	3	Tacoma					70000
				999	9	Balance of county					99999
	028	000	2	999	9	San Juan		055	6	0000	
	029	000	2			Skagit		057	4	0000	
				002	6	Anacortes					01990
				024	6	Mount Vernon					47560
				999	9	Balance of county					99999
	030	000	2	999	9	Skamania		059	6	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
48						Washington	53				
	031	260	1			Snohomish		061	2	7600	
				006	6	Bothell, part					07380
				010	5	Edmonds					20750
				012	4	Everett					22640
				019	5	Lynnwood					40840
				020	6	Marysville					43955
				023	6	Mountlake Terrace					47490
				999	9	Balance of county					99999
	032	268	1			Spokane		063	2	7840	
				035	3	Spokane					67000
				999	9	Balance of county					99999
	033	000	2			Stevens		065	5	0000	
	034	205	1			Thurston		067	3	5910	
				017	6	Lacey					36745
				026	5	Olympia					51300
				999	9	Balance of county					99999
	035	000	2			Wahkiakum		069	6	0000	
	036	000	2			Walla Walla		071	5	0000	
				040	5	Walla Walla					75775
				999	9	Balance of county					99999
	037	026	1			Whatcom		073	3	0860	
				005	4	Bellingham					05280
				999	9	Balance of county					99999
	038	000	2			Whitman		075	5	0000	
				029	6	Pullman					56625
				999	9	Balance of county					99999
	039	306	1			Yakima		077	3	9260	
				036	6	Sunnyside					68750
				042	4	Yakima					80010
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
49						West Virginia	54				
	001	000	2	999	9	Barbour		001	6	0000	
	002	296	1			Berkeley		003	4	8840	
				007	6	Martinsburg					52060
				999	9	Balance of county					99999
	003	000	2	999	9	Boone		005	5	0000	
	004	000	2	999	9	Braxton		007	6	0000	
	005	273	1			Brooke		009	5	8080	
				014	6	Weirton, part					85156
				999	9	Balance of county					99999
	006	128	1			Cabell		011	4	3400	
				006	4	Huntington, part					39460
				999	9	Balance of county					99999
	007	000	2	999	9	Calhoun		013	6	0000	
	008	000	2	999	9	Clay		015	6	0000	
	009	000	2	999	9	Doddridge		017	6	0000	
	010	000	2	999	9	Fayette		019	5	0000	
	011	000	2	999	9	Gilmer		021	6	0000	
	012	000	2	999	9	Grant		023	6	0000	
	013	000	2	999	9	Greenbrier		025	5	0000	
	014	000	2	999	9	Hampshire		027	6	0000	
	015	273	1			Hancock		029	5	8080	
				014	6	Weirton, part					85156
				999	9	Balance of county					99999
	016	000	2	999	9	Hardy		031	6	0000	
	017	000	2			Harrison		033	4	0000	
				004	6	Clarksburg					15628
				999	9	Balance of county					99999
	018	000	2	999	9	Jackson		035	5	0000	
	019	296	1	999	9	Jefferson		037	5	8840	
	020	050	1			Kanawha		039	3	1480	
				003	4	Charleston					14600
				011	6	St. Albans					71212
				012	6	South Charleston					75292
				999	9	Balance of county					99999
	021	000	2	999	9	Lewis		041	6	0000	
	022	000	2	999	9	Lincoln		043	6	0000	
	023	000	2	999	9	Logan		045	5	0000	
	024	000	2	999	9	McDowell		047	5	0000	
	025	000	2			Marion		049	4	0000	
				005	6	Fairmont					26452
				999	9	Balance of county					99999
	026	300	1			Marshall		051	5	9000	
				009	6	Moundsville					56020
				015	5	Wheeling, part					86452
				999	9	Balance of county					99999
	027	000	2	999	9	Mason		053	5	0000	
	028	000	2			Mercer		055	4	0000	
				002	6	Bluefield					08524
				999	9	Balance of county					99999
	029	066	1	999	9	Mineral		057	5	1900	
	030	000	2	999	9	Mingo		059	5	0000	
	031	000	2			Monongalia		061	4	0000	
				008	5	Morgantown					55756
				999	9	Balance of county					99999
	032	000	2	999	9	Monroe		063	6	0000	
	033	000	2	999	9	Morgan		065	6	0000	
	034	000	2	999	9	Nicholas		067	5	0000	
	035	300	1			Ohio		069	4	9000	
				015	5	Wheeling, part					86452
				999	9	Balance of county					99999
	036	000	2	999	9	Pendleton		071	6	0000	
	037	000	2	999	9	Pleasants		073	6	0000	
	038	000	2	999	9	Pocahontas		075	6	0000	
	039	000	2	999	9	Preston		077	5	0000	
	040	050	1	999	9	Putnam		079	5	1480	
	041	000	2			Raleigh		081	4	0000	
				001	6	Beckley					05332
				999	9	Balance of county					99999
	042	000	2	999	9	Randolph		083	5	0000	
	043	000	2	999	9	Ritchie		085	6	0000	
	044	000	2	999	9	Roane		087	6	0000	
	045	000	2	999	9	Summers		089	6	0000	
	046	000	2	999	9	Taylor		091	6	0000	
	047	000	2	999	9	Tucker		093	6	0000	

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
49						West Virginia	54				
	048	000	2	999	9	Tyler	095	6		0000	
	049	000	2	999	9	Upshur	097	6		0000	
	050	128	1			Wayne	099	5		3400	
				006	4	Huntington, part					39460
				999	9	Balance of county					99999
	051	000	2	999	9	Webster	101	6		0000	
	052	000	2	999	9	Wetzel	103	6		0000	
	053	000	2	999	9	Wirt	105	6		0000	
	054	211	1			Wood	107	4		6020	
				010	5	Parkersburg					62140
				013	6	Vienna					83500
				999	9	Balance of county					99999
	055	000	2	999	9	Wyoming	109	5		0000	

Vital Statistics Codes					FIPS Codes					
St	Cnty	P/MSA	M/NM	City P/S	Area Names	St	Cnty	P/S	P/MSA	Place
50					Wisconsin	55				
001	000	2	999	9	Adams	001	6		0000	
002	000	2	999	9	Ashland	003	6		0000	
003	000	2	999	9	Barron	005	5		0000	
004	000	2	999	9	Bayfield	007	6		0000	
005	115	1			Brown	009	3		3080	
				001	6	Allouez village				01175
				003	6	Ashwaubenon village				03425
				011	6	De Pere				19775
				019	4	Green Bay				31000
				999	9	Balance of county				99999
006	000	2	999	9	Buffalo	011	6		0000	
007	000	2	999	9	Burnett	013	6		0000	
008	013	1			Calumet	015	5		0460	
				002	4	Appleton, part				02375
				030	6	Menasha, part				50825
				999	9	Balance of county				99999
009	082	1			Chippewa	017	4		2290	
				009	6	Chippewa Falls				14575
				012	4	Eau Claire, part				22300
				999	9	Balance of county				99999
010	000	2	999	9	Clark	019	5		0000	
011	000	2	999	9	Columbia	021	5		0000	
012	000	2	999	9	Crawford	023	6		0000	
013	173	1			Dane	025	2		4720	
				013	6	Fitchburg				25950
				026	3	Madison				48000
				034	6	Middleton				51575
				051	6	Sun Prairie				78600
				999	9	Balance of county				99999
014	000	2			Dodge	027	4		0000	
				004	6	Beaver Dam				05900
				054	6	Watertown, part				83975
				999	9	Balance of county				99999
015	000	2	999	9	Door	029	5		0000	
016	080	1			Douglas	031	5		2240	
				052	5	Superior				78700
				999	9	Balance of county				99999
017	000	2			Dunn	033	5		0000	
				032	6	Menomonie				51025
				999	9	Balance of county				99999
018	082	1			Eau Claire	035	4		2290	
				012	4	Eau Claire, part				22300
				999	9	Balance of county				99999
019	000	2	999	9	Florence	037	6		0000	
020	000	2			Fond du Lac	039	4		0000	
				014	5	Fond du Lac				26275
				999	9	Balance of county				99999
021	000	2	999	9	Forest	041	6		0000	
022	000	2	999	9	Grant	043	5		0000	
023	000	2			Green	045	5		0000	
				036	6	Monroe				53750
				999	9	Balance of county				99999
024	000	2	999	9	Green Lake	047	6		0000	
025	000	2	999	9	Iowa	049	6		0000	
026	000	2	999	9	Iron	051	6		0000	
027	000	2	999	9	Jackson	053	6		0000	
028	000	2			Jefferson	055	4		0000	
				015	6	Fort Atkinson				26675
				054	6	Watertown, part				83975
				061	6	Whitewater, part				86925
				999	9	Balance of county				99999
029	000	2	999	9	Juneau	057	6		0000	
030	146	1			Kenosha	059	3		3800	
				024	4	Kenosha				39225
				044	6	Pleasant Prairie village				63300
				999	9	Balance of county				99999
031	000	2	999	9	Kewaunee	061	6		0000	
032	150	1			La Crosse	063	4		3870	
				025	4	La Crosse				40775
				042	6	Onalaska				59925
				999	9	Balance of county				99999
033	000	2	999	9	Lafayette	065	6		0000	
034	000	2	999	9	Langlade	067	6		0000	
035	000	2	999	9	Lincoln	069	5		0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
50						Wisconsin	55				
	036	000	2			Manitowoc	071	4	0000		
				027	5	Manitowoc					48500
				053	6	Two Rivers					81325
				999	9	Balance of county					99999
	037	298	1			Marathon	073	3	8940		
				029	6	Marshfield, part					49675
				056	5	Wausau					84475
				999	9	Balance of county					99999
	038	000	2			Marinette	075	5	0000		
				028	6	Marinette					49300
				999	9	Balance of county					99999
	039	000	2	999	9	Marquette	077	6	0000		
	040	000	2	999	9	Menominee	078	6	0000		
	041	182	1			Milwaukee	079	1	5080		
				007	6	Brown Deer village					10375
				010	6	Cudahy					17975
				016	6	Franklin					27300
				018	6	Glendale					29400
				020	6	Greendale village					31125
				021	5	Greenfield					31175
				035	1	Milwaukee, part					53000
				040	6	Oak Creek					58800
				048	6	Shorewood village					73725
				049	6	South Milwaukee					75125
				057	5	Wauwatosa					84675
				058	4	West Allis					85300
				060	6	Whitefish Bay village					86700
				999	9	Balance of county					99999
	042	000	2	999	9	Monroe	081	5	0000		
	043	000	2	999	9	Oconto	083	5	0000		
	044	000	2	999	9	Oneida	085	5	0000		
	045	013	1			Outagamie	087	3	0460		
				002	4	Appleton, part					02375
				023	6	Kaukauna					38800
				999	9	Balance of county					99999
	046	182	1			Ozaukee	089	4	5080		
				008	6	Cedarburg					13375
				033	6	Mequon					51150
				999	9	Balance of county					99999
	047	000	2	999	9	Pepin	091	6	0000		
	048	183	1			Pierce	093	5	5120		
				046	6	River Falls, part					68275
				999	9	Balance of county					99999
	049	000	2	999	9	Polk	095	5	0000		
	050	000	2			Portage	097	4	0000		
				050	6	Stevens Point					77200
				999	9	Balance of county					99999
	051	000	2	999	9	Price	099	6	0000		
	052	225	1			Racine	101	3	6600		
				045	4	Racine					66000
				999	9	Balance of county					99999
	053	000	2	999	9	Richland	103	6	0000		
	054	138	1			Rock	105	3	3620		
				005	5	Beloit					06500
				022	4	Janesville					37825
				999	9	Balance of county					99999
	055	000	2	999	9	Rusk	107	6	0000		
	056	183	1			St. Croix	109	4	5120		
				046	6	River Falls, part					68275
				999	9	Balance of county					99999
	057	000	2	999	9	Sauk	111	5	0000		
	058	000	2	999	9	Sawyer	113	6	0000		
	059	000	2	999	9	Shawano	115	5	0000		
	060	262	1			Sheboygan	117	3	7620		
				047	5	Sheboygan					72975
				999	9	Balance of county					99999
	061	000	2	999	9	Taylor	119	6	0000		
	062	000	2	999	9	Trempealeau	121	5	0000		
	063	000	2	999	9	Vernon	123	5	0000		
	064	000	2	999	9	Vilas	125	6	0000		
	065	000	2			Walworth	127	4	0000		
				061	6	Whitewater, part					86925
				999	9	Balance of county					99999
	066	000	2	999	9	Washburn	129	6	0000		

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
50						Wisconsin	55				
	067	182	1			Washington		131	4	5080	
				017	6	Germantown village					28875
				035	1	Milwaukee, part					53000
				059	6	West Bend					85350
				999	9	Balance of county					99999
	068	182	1			Waukesha		133	2	5080	
				006	5	Brookfield					10025
				031	5	Menomonee Falls village					51000
				035	1	Milwaukee, part					53000
				037	6	Muskego					55275
				039	5	New Berlin					56375
				041	6	Oconomowoc					59250
				055	4	Waukesha					84250
				999	9	Balance of county					99999
	069	000	2	999	9	Waupaca		135	5	0000	
	070	000	2	999	9	Waushara		137	6	0000	
	071	013	1			Winnebago		139	3	0460	
				002	4	Appleton, part					02375
				030	6	Menasha, part					50825
				038	6	Neenah					55750
				043	4	Oshkosh					60500
				999	9	Balance of county					99999
	072	000	2			Wood		141	4	0000	
				029	6	Marshfield, part					49675
				062	6	Wisconsin Rapids					88200
				999	9	Balance of county					99999

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
51						Wyoming	56				
	001	000	2			Albany		001	5	0000	
				006	5	Laramie					45050
				999	9	Balance of county					99999
	002	000	2	999	9	Big Horn		003	6	0000	
	003	000	2			Campbell		005	5	0000	
				004	6	Gillette					31855
				999	9	Balance of county					99999
	004	000	2	999	9	Carbon		007	6	0000	
	005	000	2	999	9	Converse		009	6	0000	
	006	000	2	999	9	Crook		011	6	0000	
	007	000	2	999	9	Fremont		013	5	0000	
	008	000	2	999	9	Goshen		015	6	0000	
	009	000	2	999	9	Hot Springs		017	6	0000	
	010	000	2	999	9	Johnson		019	6	0000	
	011	054	1			Laramie		021	4	1580	
				002	4	Cheyenne					13900
				999	9	Balance of county					99999
	012	000	2	999	9	Lincoln		023	6	0000	
	013	046	1			Natrona		025	4	1350	
				001	5	Casper					13150
				999	9	Balance of county					99999
	014	000	2	999	9	Niobrara		027	6	0000	
	015	000	2	999	9	Park		029	6	0000	
	016	000	2	999	9	Platte		031	6	0000	
	017	000	2			Sheridan		033	6	0000	
				008	6	Sheridan					69845
				999	9	Balance of county					99999
	018	000	2	999	9	Sublette		035	6	0000	
	019	000	2			Sweetwater		037	5	0000	
				005	6	Green River					33740
				007	6	Rock Springs					67235
				999	9	Balance of county					99999
	020	000	2	999	9	Teton		039	6	0000	
	021	000	2			Uinta		041	6	0000	
				003	6	Evanston					25620
				999	9	Balance of county					99999
	022	000	2	999	9	Washakie		043	6	0000	
	023	000	2	999	9	Weston		045	6	0000	

Vital Statistics Codes							FIPS Codes				
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
52	ZZZ	ZZZ	Z	ZZZ	Z	Puerto Rico	00	000	Z	0000	
53	ZZZ	ZZZ	Z	ZZZ	Z	Virgin Islands	00	000	Z	0000	
54	ZZZ	ZZZ	Z	ZZZ	Z	Guam	00	000	Z	0000	
55	ZZZ	ZZZ	Z	ZZZ	Z	Canada	00	000	Z	0000	
56	ZZZ	ZZZ	Z	ZZZ	Z	Cuba	00	000	Z	0000	
57	ZZZ	ZZZ	Z	ZZZ	Z	Mexico	00	000	Z	0000	
59	ZZZ	ZZZ	Z	ZZZ	Z	Remainder of World	00	000	Z	0000	
61	ZZZ	ZZZ	Z	ZZZ	Z	American Samoa	00	000	Z	0000	
62	ZZZ	ZZZ	Z	ZZZ	Z	Northern Marianas	00	000	Z	0000	

Vital Statistics Geographic Code Outline for Puerto Rico, Virgin Islands, Guam, American Samoa and Northern Marianas

The following pages show in detail the geographic codes used by the Division of Vital Statistics in the processing of vital event data occurring in Puerto Rico, Virgin Islands, Guam, American Samoa or Northern Marianas. When an event occurs to a nonresident of these areas, residence data are coded only to the "State" level; each U.S. state, several western hemisphere countries or the remainder of the world are uniquely identified. Along with the Division of Vital Statistics codes, the Federal Information Processing Standards (FIPS) codes are shown for several items. Both sets of codes appear on the vital event public-use files. Codes are effective with the 1998 data year and are based on results of the 1990 Census.

To aid the user in interpreting the geographic codes, a brief explanation of the codes and of the column headings/abbreviations shown on the following pages are:

Puerto Rico:

State (St): Puerto Rico has its own unique code. In addition, several unique codes are used to identify nonresidents of Puerto Rico.

County (Cnty): Each municipio (county equivalent) is numbered alphabetically.

P/MSA: Primary metropolitan statistical areas and metropolitan statistical areas are those established by the U.S. Office of Management and Budget (OMB) using 1990 Census population counts.

M/NM: Metropolitan counties (code 1) are component counties of P/MSA's
Nonmetropolitan counties (code 2) are not part of any P/MSA.

City or Place: No city/places in Puerto Rico are identified.

Name: Puerto Rico and each municipio are listed along with their respective codes. In addition, places used to identify nonresidents of Puerto Rico are also listed along with their codes.

FIPS: For an explanation of FIPS codes, reference should be made to various National Institute of Standards and Technology (NIST) publications.

Virgin Islands:

State (St): The Virgin Islands has its own unique code. In addition, several unique codes are used to identify nonresidents of the V.I.

County (Cnty): Several Islands (county equivalent) are numbered alphabetically.

P/MSA: None are identified in the Virgin Islands.

M/NM: No metropolitan areas are identified for the Virgin Islands.

City or Place: City/places are numbered alphabetically and identify each city with a population of 10,000 or more in 1990.

P/S: Population size code for city of residence based on the 1990 Census. Refer to the code outline given earlier in this document for specific codes and meanings.

Name: The Virgin Islands as a whole and several islands are listed along with their respective codes. In addition, places used to identify nonresidents of the V.I. are also listed along with their codes.

**Vital Statistics Geographic Code Outline for Puerto Rico,
Virgin Islands, Guam, American Samoa and Northern Marianas- Con.**

Guam:

State (St): Guam has its own unique code. In addition, several unique codes are used to identify nonresidents of Guam.

County (Cnty): None are identified in Guam.

P/MSA: None are identified in Guam.

M/NM: No metropolitan areas are identified for Guam.

City or Place: None are identified in Guam.

P/S: No population size groups are identified for Guam.

Name: Guam as a whole is listed along with its respective code. In addition, places used to identify nonresidents of Guam are also listed along with their codes.

American Samoa:

State (St): American Samoa has its own unique code. In addition, several unique codes are used to identify nonresidents of American Samoa.

County (Cnty): None are identified in American Samoa.

P/MSA: None are identified in American Samoa.

M/NM: No metropolitan areas are identified for American Samoa.

City or Place: None are identified in American Samoa.

P/S: No population size groups are identified for American Samoa.

Name: American Samoa as a whole is listed along with its respective code. In addition, places used to identify nonresidents of American Samoa are also listed along with their codes.

Northern Marianas:

State (St): Northern Marianas has its own unique code. In addition, several unique codes are used to identify nonresidents of Northern Marianas

County (Cnty): None are identified in Northern Marianas.

P/MSA: None are identified in Northern Marianas.

M/NM: No metropolitan areas are identified for Northern Marianas.

City or Place: None are identified in Northern Marianas.

P/S: No population size groups are identified for Northern Marianas.

Name: Northern Marianas as a whole is listed along with its respective code. In addition, places used to identify nonresidents of Northern Marianas are also listed along with their codes.

List of Primary Metropolitan Statistical Areas
and their Component Counties
For the United States and Puerto Rico

Vital Statistics Codes					Area Names	FIPS Codes			
St	Cnty	P/MSA	M/NM	City		St	Cnty	P/MSA	Place
01	000	999	9	000	Alabama	01	000	0000	00000
02	000	999	9	000	Alaska	02	000	0000	00000
03	000	999	9	000	Arizona	04	000	0000	00000
04	000	999	9	000	Arkansas	05	000	0000	00000
05	000	999	9	000	California	06	000	0000	00000
06	000	999	9	000	Colorado	08	000	0000	00000
07	000	999	9	000	Connecticut	09	000	0000	00000
08	000	999	9	000	Delaware	10	000	0000	00000
09	000	999	9	000	District of Columbia	11	000	0000	00000
10	000	999	9	000	Florida	12	000	0000	00000
11	000	999	9	000	Georgia	13	000	0000	00000
12	000	999	9	000	Hawaii	15	000	0000	00000
13	000	999	9	000	Idaho	16	000	0000	00000
14	000	999	9	000	Illinois	17	000	0000	00000
15	000	999	9	000	Indiana	18	000	0000	00000
16	000	999	9	000	Iowa	19	000	0000	00000
17	000	999	9	000	Kansas	20	000	0000	00000
18	000	999	9	000	Kentucky	21	000	0000	00000
19	000	999	9	000	Louisiana	22	000	0000	00000
20	000	999	9	000	Maine	23	000	0000	00000
21	000	999	9	000	Maryland	24	000	0000	00000
22	000	999	9	000	Massachusetts	25	000	0000	00000
23	000	999	9	000	Michigan	26	000	0000	00000
24	000	999	9	000	Minnesota	27	000	0000	00000
25	000	999	9	000	Mississippi	28	000	0000	00000
26	000	999	9	000	Missouri	29	000	0000	00000
27	000	999	9	000	Montana	30	000	0000	00000
28	000	999	9	000	Nebraska	31	000	0000	00000
29	000	999	9	000	Nevada	32	000	0000	00000
30	000	999	9	000	New Hampshire	33	000	0000	00000
31	000	999	9	000	New Jersey	34	000	0000	00000
32	000	999	9	000	New Mexico	35	000	0000	00000
33	000	999	9	000	New York	36	000	0000	00000
34	000	999	9	000	North Carolina	37	000	0000	00000
35	000	999	9	000	North Dakota	38	000	0000	00000
36	000	999	9	000	Ohio	39	000	0000	00000

Vital Statistics Codes					Area Names	FIPS Codes			
St	Cnty	P/MSA	M/NM	City		St	Cnty	P/MSA	Place
37	000	999	9	000	Oklahoma	40	000	0000	00000
38	000	999	9	000	Oregon	41	000	0000	00000
39	000	999	9	000	Pennsylvania	42	000	0000	00000
40	000	999	9	000	Rhode Island	44	000	0000	00000
41	000	999	9	000	South Carolina	45	000	0000	00000
42	000	999	9	000	South Dakota	46	000	0000	00000
43	000	999	9	000	Tennessee	47	000	0000	00000
44	000	999	9	000	Texas	48	000	0000	00000
45	000	999	9	000	Utah	49	000	0000	00000
46	000	999	9	000	Vermont	50	000	0000	00000
47	000	999	9	000	Virginia	51	000	0000	00000
48	000	999	9	000	Washington	53	000	0000	00000
49	000	999	9	000	West Virginia	54	000	0000	00000
50	000	999	9	000	Wisconsin	55	000	0000	00000
51	000	999	9	000	Wyoming	56	000	0000	00000

Vital Statistics Codes				Area Names	FIPS Codes		
St Cnty	P/MSA	M/NM	City		St Cnty	P/MSA	Place
52				Puerto Rico	72		
	001	000	2	999	Adjuntas	001	0000
	002	001	1	999	Aguada	003	0060
	003	001	1	999	Aguadilla	005	0060
	004	006	1	999	Aguas Buenas	007	7440
	005	000	2	999	Aibonito	009	0000
	006	004	1	999	Anasco	011	4840
	007	002	1	999	Arecibo	013	0470
	008	000	2	999	Arroyo	015	0000
	009	006	1	999	Barceloneta	017	7440
	010	000	2	999	Barranquitas	019	0000
	011	006	1	999	Bayamon	021	7440
	012	004	1	999	Cabo Rojo	023	4840
	013	003	1	999	Caguas	025	1310
	014	002	1	999	Camuy	027	0470
	015	006	1	999	Canovanas	029	7440
	016	006	1	999	Carolina	031	7440
	017	006	1	999	Catano	033	7440
	018	003	1	999	Cayey	035	1310
	019	006	1	999	Ceiba	037	7440
	020	000	2	999	Ciales	039	0000
	021	003	1	999	Cidra	041	1310
	022	000	2	999	Coamo	043	0000
	023	006	1	999	Comerio	045	7440
	024	006	1	999	Corozal	047	7440
	025	000	2	999	Culebra	049	0000
	026	006	1	999	Dorado	051	7440
	027	006	1	999	Fajardo	053	7440
	028	006	1	999	Florida	054	7440
	029	000	2	999	Guanica	055	0000
	030	000	2	999	Guayama	057	0000
	031	005	1	999	Guayanilla	059	6360
	032	006	1	999	Guaynabo	061	7440
	033	003	1	999	Gurabo	063	1310
	034	002	1	999	Hatillo	065	0470
	035	004	1	999	Hormigueros	067	4840
	036	006	1	999	Humacao	069	7440
	037	000	2	999	Isabela	071	0000
	038	000	2	999	Jayuya	073	0000
	039	005	1	999	Juana Diaz	075	6360
	040	006	1	999	Juncos	077	7440
	041	000	2	999	Lajas	079	0000
	042	000	2	999	Lares	081	0000
	043	000	2	999	Las Marias	083	0000
	044	006	1	999	Las Piedras	085	7440
	045	006	1	999	Loiza	087	7440
	046	006	1	999	Luquillo	089	7440
	047	006	1	999	Manati	091	7440
	048	000	2	999	Maricao	093	0000
	049	000	2	999	Maunabo	095	0000
	050	004	1	999	Mayaguez	097	4840
	051	001	1	999	Moca	099	0060
	052	006	1	999	Morovis	101	7440
	053	006	1	999	Naguabo	103	7440
	054	006	1	999	Naranjito	105	7440
	055	000	2	999	Orocovis	107	0000
	056	000	2	999	Patillas	109	0000
	057	005	1	999	Penuelas	111	6360
	058	005	1	999	Ponce	113	6360
	059	000	2	999	Quebradillas	115	0000
	060	000	2	999	Rincon	117	0000
	061	006	1	999	Rio Grande	119	7440
	062	004	1	999	Sabana Grande	121	4840
	063	000	2	999	Salinas	123	0000
	064	004	1	999	San German	125	4840
	065	006	1	999	San Juan	127	7440
	066	003	1	999	San Lorenzo	129	1310
	067	000	2	999	San Sebastian	131	0000
	068	000	2	999	Santa Isabel	133	0000
	069	006	1	999	Toa Alta	135	7440
	070	006	1	999	Toa Baja	137	7440
	071	006	1	999	Trujillo Alto	139	7440
	072	000	2	999	Utuado	141	0000
	073	006	1	999	Vega Alta	143	7440
	074	006	1	999	Vega Baja	145	7440

Vital Statistics Codes					Area Names	FIPS Codes			
St	Cnty	P/MSA	M/NM	City		St	Cnty	P/MSA	Place
52					Puerto Rico	72			
	075	000	2	999	Vieques		147	0000	
	076	005	1	999	Villalba		149	6360	
	077	006	1	999	Yabucoa		151	7440	
	078	005	1	999	Yauco		153	6360	
53					Virgin Islands	78			
	001	000	2	999	St. Croix		010	0000	
	002	000	2	999	St. John		020	0000	
	003	000	2		St. Thomas		030	0000	
				001	Charlotte Amalie				99999
				999	Balance of area				99999
54					Guam	66			
	000	000	2		Guam		010	0000	
				000	Guam				99999
55	ZZZ	ZZZ	Z	ZZZ	Canada	00	000	0000	00000
56	ZZZ	ZZZ	Z	ZZZ	Cuba	00	000	0000	00000
57	ZZZ	ZZZ	Z	ZZZ	Mexico	00	000	0000	00000
59	ZZZ	ZZZ	Z	ZZZ	Remainder of World	00	000	0000	00000
61					American Samoa	60			
	000	000	2		American Samoa		000	0000	
				000	American Samoa				99999
62					Northern Marianas	69			
	000	000	2		Northern Marianas		000	0000	
				000	Northern Marianas				99999

List of Primary Metropolitan Statistical Areas
and their Component Counties
For the United States and Puerto Rico

United States
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Vital Statistics Codes					FIPS Codes	
P/MSA	State	County	P/MSA Name and County Components	P/MSA	State	Cnty
001	44		Abilene, TX, MSA	0040		
		221	Texas Taylor		48	441
002	36		Akron, OH, PMSA	0080		
		067	Ohio Portage		39	133
		077	Summit			153
003	11		Albany, GA, MSA	0120		
		047	Georgia Dougherty		13	095
		088	Lee			177
004	33		Albany-Schenectady-Troy, NY, MSA	0160		
			New York		36	
		001	Albany			001
		027	Montgomery			057
		039	Rensselaer			083
		042	Saratoga			091
		043	Schenectady			093
		044	Schoharie			095
005	32		Albuquerque, NM, MSA	0200		
			New Mexico		35	
		001	Bernalillo			001
		024	Sandoval			043
		033	Valencia			061
006	19		Alexandria, LA, MSA	0220		
			Louisiana		22	
		040	Rapides			079
007	39		Allentown-Bethlehem-Easton, PA, MSA	0240		
			Pennsylvania		42	
		013	Carbon			025
		039	Lehigh			077
		048	Northampton			095
008	39		Altoona, PA, MSA	0280		
			Pennsylvania		42	
		007	Blair			013
009	44		Amarillo, TX, MSA	0320		
			Texas		48	
		188	Potter			375
		191	Randall			381
010	02		Anchorage, AK, MSA	0380		
			Alaska		02	
		003	Anchorage			020
011	23		Ann Arbor, MI, PMSA	0440		
			Michigan		26	
		046	Lenawee			091
		047	Livingston			093
		081	Washtenaw			161
012	01		Anniston, AL, MSA	0450		
			Alabama		01	
		008	Calhoun			015
013	50		Appleton-Oshkosh-Neenah, WI, MSA	0460		
			Wisconsin		55	
		008	Calumet			015
		045	Outagamie			087
		071	Winnebago			139
014	34		Asheville, NC, MSA	0480		
			North Carolina		37	
		011	Buncombe			021
		058	Madison			115

United States
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Vital Statistics Codes					FIPS Codes	
P/MSA	State	County	P/MSA Name and County Components	P/MSA	State	Cnty
015	11		Athens, GA, MSA	0500	13	
		029	Georgia			059
		097	Clarke			195
		108	Madison			219
			Oconee			
016	11		Atlanta, GA, MSA	0520	13	
		007	Georgia			013
		008	Barrow			015
		022	Bartow			045
		028	Carroll			057
		031	Cherokee			063
		033	Clayton			067
		038	Cobb			077
		044	Coweta			089
		048	De Kalb			097
		056	Douglas			113
		058	Fayette			117
		060	Forsyth			121
		067	Fulton			135
		075	Gwinnett			151
		107	Henry			217
		110	Newton			223
		112	Paulding			227
		122	Pickens			247
		126	Rockdale			255
		147	Spalding			297
			Walton			
017	31		Atlantic-Cape May, NJ, PMSA	0560	34	
		001	New Jersey			001
		005	Atlantic			009
			Cape May			
018	11		Augusta-Aiken, GA-SC, MSA	0600	13	
		036	Georgia			073
		094	Columbia			189
		121	McDuffie			245
	41		South Carolina		45	
		002	Aiken			003
		019	Edgefield			037
019	44		Austin-San Marcos, TX, MSA	0640	48	
		011	Texas			021
		028	Bastrop			055
		105	Caldwell			209
		227	Hays			453
		246	Travis			491
			Williamson			
020	05		Bakersfield, CA, MSA	0680	06	
		015	California			029
			Kern			
021	21		Baltimore, MD, PMSA	0720	24	
		002	Maryland			003
		003	Anne Arundel			005
		004	Baltimore			510
		007	Baltimore city			013
		013	Carroll			025
		014	Harford			027
		018	Howard			035
			Queen Anne's			
022	20		Bangor, ME, NECMA	0733	23	
		010	Maine			019
			Penobscot			
023	22		Barnstable-Yarmouth, MA, NECMA	0743	25	
		001	Massachusetts			001
			Barnstable			

United States
Puerto Rico

Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
024	19		Baton Rouge, LA, MSA	0760		
			Louisiana		22	
		003	Ascension			005
		017	East Baton Rouge			033
		032	Livingston			063
		061	West Baton Rouge			121
025	44		Beaumont-Port Arthur, TX, MSA	0840		
			Texas		48	
		100	Hardin			199
		123	Jefferson			245
		181	Orange			361
026	48		Bellingham, WA, MSA	0860		
			Washington		53	
		037	Whatcom			073
027	23		Benton Harbor, MI, MSA	0870		
			Michigan		26	
		011	Berrien			021
028	31		Bergen-Passaic, NJ, PMSA	0875		
			New Jersey		34	
		002	Bergen			003
		016	Passaic			031
029	27		Billings, MT, MSA	0880		
			Montana		30	
		056	Yellowstone			111
030	25		Biloxi-Gulfport-Pascagoula, MS, MSA	0920		
			Mississippi		28	
		023	Hancock			045
		024	Harrison			047
		030	Jackson			059
031	33		Binghamton, NY, MSA	0960		
			New York		36	
		003	Broome			007
		050	Tioga			107
032	01		Birmingham, AL, MSA	1000		
			Alabama		01	
		005	Blount			009
		037	Jefferson			073
		058	St. Clair			115
		059	Shelby			117
033	35		Bismarck, ND, MSA	1010		
			North Dakota		38	
		008	Burleigh			015
		030	Morton			059
034	15		Bloomington, IN, MSA	1020		
			Indiana		18	
		053	Monroe			105
035	14		Bloomington-Normal, IL, MSA	1040		
			Illinois		17	
		057	McLean			113
036	13		Boise City, ID, MSA	1080		
			Idaho		16	
		001	Ada			001
		014	Canyon			027

United States
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Vital Statistics Codes			P/MSA Name and County Components	FIPS P/MSA	Codes	
P/MSA	State	County			State	Cnty
037	22		Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH Massachusetts	1123	25	
		003	Bristol			005
		005	Essex			009
		009	Middlesex			017
		011	Norfolk			021
		012	Plymouth			023
		013	Suffolk			025
		014	Worcester			027
	30		New Hampshire		33	
		006	Hillsborough			011
		008	Rockingham			015
		009	Strafford			017
038	06		Boulder-Longmont, CO, PMSA Colorado	1125	08	
		007	Boulder			013
039	44		Brazoria, TX, PMSA Texas	1145	48	
		020	Brazoria			039
040	48		Bremerton, WA, PMSA Washington	1150	53	
		018	Kitsap			035
041	44		Brownsville-Harlingen-San Benito, TX, MSA Texas	1240	48	
		031	Cameron			061
042	44		Bryan-College Station, TX, MSA Texas	1260	48	
		021	Brazos			041
043	33		Buffalo-Niagara Falls, NY, MSA New York	1280	36	
		014	Erie			029
		030	Niagara			063
044	46		Burlington, VT, NECMA Vermont	1303	50	
		004	Chittenden			007
		006	Franklin			011
		007	Grand Isle			013
045	36		Canton-Massillon, OH, MSA Ohio	1320	39	
		010	Carroll			019
		076	Stark			151
046	51		Casper, WY, MSA Wyoming	1350	56	
		013	Natrona			025
047	16		Cedar Rapids, IA, MSA Iowa	1360	19	
		057	Linn			113
048	14		Champaign-Urbana, IL, MSA Illinois	1400	17	
		010	Champaign			019
049	41		Charleston-North Charleston, SC, MSA South Carolina	1440	45	
		008	Berkeley			015
		010	Charleston			019
		018	Dorchester			035
050	49		Charleston, WV, MSA West Virginia	1480	54	
		020	Kanawha			039
		040	Putnam			079

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Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
051	34		Charlotte-Gastonia-Rock Hill, NC-SC, MSA	1520		
			North Carolina		37	
		013	Cabarrus			025
		036	Gaston			071
		055	Lincoln			109
		060	Mecklenburg			119
		080	Rowan			159
		090	Union			179
	41		South Carolina		45	
		046	York			091
052	47		Charlottesville, VA, MSA	1540		
			Virginia		51	
		002	Albemarle			003
		025	Charlottesville city			540
		045	Fluvanna			065
		055	Greene			079
053	11		Chattanooga, TN-GA, MSA	1560		
			Georgia		13	
		023	Catoosa			047
		041	Dade			083
		146	Walker			295
	43		Tennessee		47	
		033	Hamilton			065
		058	Marion			115
054	51		Cheyenne, WY, MSA	1580		
			Wyoming		56	
		011	Laramie			021
055	14		Chicago, IL, PMSA	1600		
			Illinois		17	
		016	Cook			031
		019	De Kalb			037
		022	Du Page			043
		032	Grundy			063
		045	Kane			089
		047	Kendall			093
		049	Lake			097
		056	McHenry			111
		099	Will			197
056	05		Chico-Paradise, CA, MSA	1620		
			California		06	
		004	Butte			007
057	15		Cincinnati, OH-KY-IN, PMSA	1640		
			Indiana		18	
		015	Dearborn			029
		058	Ohio			115
	18		Kentucky		21	
		008	Boone			015
		019	Campbell			037
		039	Gallatin			077
		041	Grant			081
		059	Kenton			117
		096	Pendleton			191
	36		Ohio		39	
		008	Brown			015
		013	Clermont			025
		031	Hamilton			061
		083	Warren			165
058	18		Clarksville-Hopkinsville, TN-KY, MSA	1660		
			Kentucky		21	
		024	Christian			047
	43		Tennessee		47	
		063	Montgomery			125

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Vital Statistics Codes					FIPS	Codes	
P/MSA	State	County	P/MSA Name and County Components	P/MSA	State	Cnty	
059	36		Cleveland-Lorain-Elyria, OH, PMSA	1680			
			Ohio		39		
		004	Ashtabula				007
		018	Cuyahoga				035
		028	Geauga				055
		043	Lake				085
		047	Lorain				093
		052	Medina				103
060	06		Colorado Springs, CO, MSA	1720			
			Colorado		08		
		021	El Paso				041
061	26		Columbia, MO, MSA	1740			
			Missouri		29		
		010	Boone				019
062	41		Columbia, SC, MSA	1760			
			South Carolina		45		
		032	Lexington				063
		040	Richland				079
063	01		Columbus, GA-AL, MSA	1800			
			Alabama		01		
		057	Russell				113
			Georgia		13		
		026	Chattahoochee				053
		072	Harris				145
		106	Muscogee				215
064	36		Columbus, OH, MSA	1840			
			Ohio		39		
		021	Delaware				041
		023	Fairfield				045
		025	Franklin				049
		045	Licking				089
		049	Madison				097
		065	Pickaway				129
065	44		Corpus Christi, TX, MSA	1880			
			Texas		48		
		178	Nueces				355
		205	San Patricio				409
066	21		Cumberland, MD-WV, MSA	1900			
			Maryland		24		
		001	Allegany				001
		49	West Virginia		54		
		029	Mineral				057
067	44		Dallas, TX, PMSA	1920			
			Texas		48		
		043	Collin				085
		057	Dallas				113
		061	Denton				121
		070	Ellis				139
		107	Henderson				213
		116	Hunt				231
		129	Kaufman				257
		199	Rockwall				397
068	47		Danville, VA, MSA	1950			
			Virginia		51		
		035	Danville city				590
		097	Pittsylvania				143
069	14		Davenport-Moline-Rock Island, IA-IL, MSA	1960			
			Illinois		17		
		037	Henry				073
		081	Rock Island				161
			Iowa		19		
		082	Scott				163

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Vital Statistics Codes			P/MSA Name and County Components	FIPS P/MSA	Codes	
P/MSA	State	County			State	Cnty
070	36		Dayton-Springfield, OH, MSA	2000		
			Ohio		39	
		012	Clark			023
		029	Greene			057
		055	Miami			109
		057	Montgomery			113
071	10		Daytona Beach, FL, MSA	2020		
			Florida		12	
		018	Flagler			035
		064	Volusia			127
072	01		Decatur, AL, MSA	2030		
			Alabama		01	
		040	Lawrence			079
		052	Morgan			103
073	14		Decatur, IL, MSA	2040		
			Illinois		17	
		058	Macon			115
074	06		Denver, CO, PMSA	2080		
			Colorado		08	
		001	Adams			001
		003	Arapahoe			005
		016	Denver			031
		018	Douglas			035
		030	Jefferson			059
075	16		Des Moines, IA, MSA	2120		
			Iowa		19	
		025	Dallas			049
		077	Polk			153
		091	Warren			181
076	23		Detroit, MI, PMSA	2160		
			Michigan		26	
		044	Lapeer			087
		050	Macomb			099
		058	Monroe			115
		063	Oakland			125
		074	St. Clair			147
		082	Wayne			163
077	01		Dothan, AL, MSA	2180		
			Alabama		01	
		023	Dale			045
		035	Houston			069
078	08		Dover, DE, MSA	2190		
			Delaware		10	
		001	Kent			001
079	16		Dubuque, IA, MSA	2200		
			Iowa		19	
		031	Dubuque			061
080	24		Duluth-Superior, MN-WI, MSA	2240		
			Minnesota		27	
		069	St. Louis			137
		50	Wisconsin		55	
		016	Douglas			031
081	33		Dutchess County, NY, PMSA	2281		
			New York		36	
		013	Dutchess			027
082	50		Eau Claire, WI, MSA	2290		
			Wisconsin		55	
		009	Chippewa			017
		018	Eau Claire			035

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Vital Statistics Codes P/MSA	State	County	P/MSA Name and County Components	FIPS P/MSA	Codes	
					State	Cnty
083	44	071	El Paso, TX, MSA Texas El Paso	2320	48	141
084	15	020	Elkhart-Goshen, IN, MSA Indiana Elkhart	2330	18	039
085	33	007	Elmira, NY, MSA New York Chemung	2335	36	015
086	37	024	Enid, OK, MSA Oklahoma Garfield	2340	40	047
087	39	025	Erie, PA, MSA Pennsylvania Erie	2360	42	049
088	38	020	Eugene-Springfield, OR, MSA Oregon Lane	2400	41	039
089	15	065	Evansville-Henderson, IN-KY, MSA Indiana Posey	2440	18	129
		082	Vanderburgh			163
	18	087	Warrick			173
		051	Kentucky Henderson		21	101
090	24	014	Fargo-Moorhead, ND-MN, MSA Minnesota Clay	2520	27	027
	35	009	North Dakota Cass		38	017
091	34	026	Fayetteville, NC, MSA North Carolina Cumberland	2560	37	051
092	04	004	Fayetteville-Springdale-Rogers, AR, MSA Arkansas Benton	2580	05	007
		072	Washington			143
093	23	025	Flint, MI, PMSA Michigan Genesee	2640	26	049
094	01	017	Florence, AL, MSA Alabama Colbert	2650	01	033
		039	Lauderdale			077
095	41	021	Florence, SC, MSA South Carolina Florence	2655	45	041
096	06	035	Fort Collins-Loveland, CO, MSA Colorado Larimer	2670	08	069
097	10	006	Fort Lauderdale, FL, PMSA Florida Broward	2680	12	011
098	10	036	Fort Myers-Cape Coral, FL, MSA Florida Lee	2700	12	071

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Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
099	10		Fort Pierce-Port St. Lucie, FL, MSA	2710		
		043	Florida		12	
		056	Martin			085
			St. Lucie			111
100	04		Fort Smith, AR-OK, MSA	2720		
		017	Arkansas		05	
		066	Crawford			033
			Sebastian			131
	37		Oklahoma		40	
		068	Sequoyah			135
101	10		Fort Walton Beach, FL, MSA	2750		
		046	Florida		12	
			Okaloosa			091
102	15		Fort Wayne, IN, MSA	2760		
		001	Indiana		18	
		002	Adams			001
		017	Allen			003
		035	De Kalb			033
		090	Huntington			069
		092	Wells			179
			Whitley			183
103	44		Fort Worth-Arlington, TX, PMSA	2800		
		111	Texas		48	
		126	Hood			221
		184	Johnson			251
		220	Parker			367
			Tarrant			439
104	05		Fresno, CA, MSA	2840		
		010	California		06	
		020	Fresno			019
			Madera			039
105	01		Gadsden, AL, MSA	2880		
		028	Alabama		01	
			Etowah			055
106	10		Gainesville, FL, MSA	2900		
		001	Florida		12	
			Alachua			001
107	44		Galveston-Texas City, TX, PMSA	2920		
		084	Texas		48	
			Galveston			167
108	15		Gary, IN, PMSA	2960		
		045	Indiana		18	
		064	Lake			089
			Porter			127
109	33		Glens Falls, NY, MSA	2975		
		053	New York		36	
		054	Warren			113
			Washington			115
110	34		Goldsboro, NC, MSA	2980		
		096	North Carolina		37	
			Wayne			191
111	24		Grand Forks, ND-MN, MSA	2985		
		060	Minnesota		27	
			Polk			119
	35		North Dakota		38	
		018	Grand Forks			035

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Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
112	23		Grand Rapids-Muskegon-Holland, MI, MSA	3000	26	
		003	Michigan			005
		041	Allegan			081
		061	Kent			121
		070	Muskegon			139
			Ottawa			
113	27		Great Falls, MT, MSA	3040	30	
		007	Montana			013
			Cascade			
114	06		Greeley, CO, PMSA	3060	08	
		062	Colorado			123
			Weld			
115	50		Green Bay, WI, MSA	3080	55	
		005	Wisconsin			009
			Brown			
116	34		Greensboro--Winston-Salem--High Point, NC, MSA	3120	37	
		001	North Carolina			001
		029	Alamance			057
		030	Davidson			059
		034	Davie			067
		041	Forsyth			081
		076	Guilford			151
		085	Randolph			169
		099	Stokes			197
			Yadkin			
117	34		Greenville, NC, MSA	3150	37	
		074	North Carolina			147
			Pitt			
118	41		Greenville-Spartanburg-Anderson, SC, MSA	3160	45	
		004	South Carolina			007
		011	Anderson			021
		023	Cherokee			045
		039	Greenville			077
		042	Pickens			083
			Spartanburg			
119	21		Hagerstown, MD, PMSA	3180	24	
		022	Maryland			043
			Washington			
120	36		Hamilton-Middletown, OH, PMSA	3200	39	
		009	Ohio			017
			Butler			
121	39		Harrisburg-Lebanon-Carlisle, PA, MSA	3240	42	
		021	Pennsylvania			041
		022	Cumberland			043
		038	Dauphin			075
		050	Lebanon			099
			Perry			
122	07		Hartford, CT, NECMA	3283	09	
		002	Connecticut			003
		004	Hartford			007
		007	Middlesex			013
			Tolland			
123	25		Hattiesburg, MS, MSA	3285	28	
		018	Mississippi			035
		037	Forrest			073
			Lamar			
124	34		Hickory-Morganton, NC, MSA	3290	37	
		002	North Carolina			003
		012	Alexander			023
		014	Burke			027
		018	Caldwell			035
			Catawba			

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Vital Statistics P/MSA	Codes		P/MSA Name and County Components	FIPS P/MSA	Codes	
	State	County			State	Cnty
125	12		Honolulu, HI, MSA	3320		
		002	Hawaii Honolulu		15	003
126	19		Houma, LA, MSA	3350		
		029	Louisiana		22	057
		055	Lafourche Terrebonne			109
127	44		Houston, TX, PMSA	3360		
			Texas		48	
		036	Chambers			071
		079	Fort Bend			157
		101	Harris			201
		146	Liberty			291
		170	Montgomery			339
		237	Waller			473
128	18		Huntington-Ashland, WV-KY-OH, MSA	3400		
			Kentucky		21	
		010	Boyd			019
		022	Carter			043
		045	Greenup			089
	36		Ohio		39	
		044	Lawrence			087
	49		West Virginia		54	
		006	Cabell			011
		050	Wayne			099
129	01		Huntsville, AL, MSA	3440		
			Alabama		01	
		042	Limestone			083
		045	Madison			089
130	15		Indianapolis, IN, MSA	3480		
			Indiana		18	
		006	Boone			011
		029	Hamilton			057
		030	Hancock			059
		032	Hendricks			063
		041	Johnson			081
		048	Madison			095
		049	Marion			097
		055	Morgan			109
		073	Shelby			145
131	16		Iowa City, IA, MSA	3500		
			Iowa		19	
		052	Johnson			103
132	23		Jackson, MI, MSA	3520		
			Michigan		26	
		038	Jackson			075
133	25		Jackson, MS, MSA	3560		
			Mississippi		28	
		025	Hinds			049
		045	Madison			089
		061	Rankin			121
134	43		Jackson, TN, MSA	3580		
			Tennessee		47	
		057	Madison			113
135	10		Jacksonville, FL, MSA	3600		
			Florida		12	
		010	Clay			019
		016	Duval			031
		045	Nassau			089
		055	St. Johns			109
136	34		Jacksonville, NC, MSA	3605		
			North Carolina		37	
		067	Onslow			133

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Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
137	33		Jamestown, NY, MSA	3610		
		006	New York Chautauqua		36	013
138	50		Janesville-Beloit, WI, MSA	3620		
		054	Wisconsin Rock		55	105
139	31		Jersey City, NJ, PMSA	3640		
		009	New Jersey Hudson		34	017
140	43		Johnson City-Kingsport-Bristol, TN-VA, MSA	3660		
		010	Tennessee Carter		47	019
		037	Hawkins			073
		082	Sullivan			163
		086	Unicoi			171
		090	Washington			179
	47		Virginia		51	
		015	Bristol city			520
		115	Scott			169
		129	Washington			191
141	39		Johnstown, PA, MSA	3680		
		011	Pennsylvania Cambria		42	021
		056	Somerset			111
142	26		Joplin, MO, MSA	3710		
		049	Missouri Jasper		29	097
		073	Newton			145
143	23		Kalamazoo-Battle Creek, MI, MSA	3720		
		013	Michigan Calhoun		26	025
		039	Kalamazoo			077
		080	Van Buren			159
144	14		Kankakee, IL, PMSA	3740		
		046	Illinois Kankakee		17	091
145	17		Kansas City, MO-KS, MSA	3760		
		046	Kansas Johnson		20	091
		052	Leavenworth			103
		061	Miami			121
		105	Wyandotte			209
	26		Missouri		29	
		019	Cass			037
		024	Clay			047
		025	Clinton			049
		048	Jackson			095
		054	Lafayette			107
		083	Platte			165
		089	Ray			177
146	50		Kenosha, WI, PMSA	3800		
		030	Wisconsin Kenosha		55	059
147	44		Killeen-Temple, TX, MSA	3810		
		014	Texas Bell		48	027
		050	Coryell			099

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Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
148	43		Knoxville, TN, MSA	3840	47	
		001	Tennessee			001
		005	Anderson			009
		047	Blount			093
		053	Knox			105
		078	Loudon			155
		087	Sevier			173
			Union			
149	15		Kokomo, IN, MSA	3850	18	
			Indiana			
		034	Howard			067
		080	Tipton			159
150	24		La Crosse, WI-MN, MSA	3870	27	
			Minnesota			
		028	Houston			055
	50		Wisconsin		55	
		032	La Crosse			063
151	19		Lafayette, LA, MSA	3880	22	
			Louisiana			
		001	Acadia			001
		028	Lafayette			055
		049	St. Landry			097
		050	St. Martin			099
152	15		Lafayette, IN, MSA	3920	18	
			Indiana			
		012	Clinton			023
		079	Tippecanoe			157
153	19		Lake Charles, LA, MSA	3960	22	
			Louisiana			
		010	Calcasieu			019
154	10		Lakeland-Winter Haven, FL, MSA	3980	12	
			Florida			
		053	Polk			105
155	39		Lancaster, PA, MSA	4000	42	
			Pennsylvania			
		036	Lancaster			071
156	23		Lansing-East Lansing, MI, MSA	4040	26	
			Michigan			
		019	Clinton			037
		023	Eaton			045
		033	Ingham			065
157	44		Laredo, TX, MSA	4080	48	
			Texas			
		240	Webb			479
158	32		Las Cruces, NM, MSA	4100	35	
			New Mexico			
		008	Dona Ana			013
159	03		Las Vegas, NV-AZ, MSA	4120	04	
			Arizona			
		009	Mohave			015
	29		Nevada		32	
		003	Clark			003
		013	Nye			023
160	17		Lawrence, KS, MSA	4150	20	
			Kansas			
		023	Douglas			045
161	37		Lawton, OK, MSA	4200	40	
			Oklahoma			
		016	Comanche			031

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Vital Statistics Codes			P/MSA Name and County Components	FIPS P/MSA	Codes	
P/MSA	State	County			State	Cnty
162	20	001	Lewiston-Auburn, ME, NECMA Maine Androscoggin	4243	23	001
163	18	009 025 034 057 076 105 120	Lexington, KY, MSA Kentucky Bourbon Clark Fayette Jessamine Madison Scott Woodford	4280	21	017 049 067 113 151 209 239
164	36	002 006	Lima, OH, MSA Ohio Allen Auglaize	4320	39	003 011
165	28	055	Lincoln, NE, MSA Nebraska Lancaster	4360	31	109
166	04	023 043 060 063	Little Rock-North Little Rock, AR, MSA Arkansas Faulkner Lonoke Pulaski Saline	4400	05	045 085 119 125
167	44	092 102 230	Longview-Marshall, TX, MSA Texas Gregg Harrison Upshur	4420	48	183 203 459
168	05	019	Los Angeles-Long Beach, CA, PMSA California Los Angeles	4480	06	037
169	15	010 022 031 072	Louisville, KY-IN, MSA Indiana Clark Floyd Harrison Scott	4520	18	019 043 061 143
	18	015 056 093	Kentucky Bullitt Jefferson Oldham		21	029 111 185
170	44	152	Lubbock, TX, MSA Texas Lubbock	4600	48	303
171	47	006 011 012 020 076	Lynchburg, VA, MSA Virginia Amherst Bedford Bedford city Campbell Lynchburg city	4640	51	009 019 515 031 680
172	11	011 076 084 111 143	Macon, GA, MSA Georgia Bibb Houston Jones Peach Twiggs	4680	13	021 153 169 225 289
173	50	013	Madison, WI, MSA Wisconsin Dane	4720	55	025

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Vital Statistics Codes			P/MSA Name and County Components	FIPS P/MSA	Codes	
P/MSA	State	County			State	Cnty
174	36		Mansfield, OH, MSA	4800		
		017	Ohio		39	
		070	Crawford			033
			Richland			139
175	44		McAllen-Edinburg-Mission, TX, MSA	4880		
		108	Texas		48	
			Hidalgo			215
176	38		Medford-Ashland, OR, MSA	4890		
		015	Oregon		41	
			Jackson			029
177	10		Melbourne-Titusville-Palm Bay, FL, MSA	4900		
		005	Florida		12	
			Brevard			009
178	04		Memphis, TN-AR-MS, MSA	4920		
		018	Arkansas		05	
		25	Crittenden		28	035
		017	Mississippi			
			De Soto			033
		43	Tennessee		47	
		024	Fayette			047
		079	Shelby			157
		084	Tipton			167
179	05		Merced, CA, MSA	4940		
		024	California		06	
			Merced			047
180	10		Miami, FL, PMSA	5000		
		013	Florida		12	
			Dade			025
181	31		Middlesex-Somerset-Hunterdon, NJ, PMSA	5015		
		010	New Jersey		34	
		012	Hunterdon			019
		018	Middlesex			023
			Somerset			035
182	50		Milwaukee-Waukesha, WI, PMSA	5080		
		041	Wisconsin		55	
		046	Milwaukee			079
		067	Ozaukee			089
		068	Washington			131
			Waukesha			133
183	24		Minneapolis-St. Paul, MN-WI, MSA	5120		
		002	Minnesota		27	
		010	Anoka			003
		013	Carver			019
		019	Chisago			025
		027	Dakota			037
		030	Hennepin			053
		062	Isanti			059
		070	Ramsey			123
		071	Scott			139
		082	Sherburne			141
		086	Washington			163
			Wright			171
	50		Wisconsin		55	
		048	Pierce			093
		056	St. Croix			109
184	01		Mobile, AL, MSA	5160		
		002	Alabama		01	
		049	Baldwin			003
			Mobile			097
185	05		Modesto, CA, MSA	5170		
		050	California		06	
			Stanislaus			099

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Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
186	31		Monmouth-Ocean, NJ, PMSA	5190		
		013	New Jersey		34	
		015	Monmouth			025
			Ocean			029
187	19		Monroe, LA, MSA	5200		
		037	Louisiana		22	
			Ouachita			073
188	01		Montgomery, AL, MSA	5240		
		001	Alabama		01	
		026	Autauga			001
		051	Elmore			051
			Montgomery			101
189	15		Muncie, IN, MSA	5280		
		018	Indiana		18	
			Delaware			035
190	41		Myrtle Beach, SC, MSA	5330		
		026	South Carolina		45	
			Horry			051
191	10		Naples, FL, MSA	5345		
		011	Florida		12	
			Collier			021
192	43		Nashville, TN, MSA	5360		
		011	Tennessee		47	
		019	Cheatham			021
		022	Davidson			037
		074	Dickson			043
		075	Robertson			147
		083	Rutherford			149
		094	Sumner			165
		095	Williamson			187
			Wilson			189
193	33		Nassau-Suffolk, NY, PMSA	5380		
		028	New York		36	
		048	Nassau			059
			Suffolk			103
194	07		New Haven-Bridgeport-Stamford-Danbury-Waterbury,	5483		
		001	CT, NECMA		09	
		005	Connecticut			001
			Fairfield			009
			New Haven			
195	07		New London-Norwich, CT, NECMA	5523		
		006	Connecticut		09	
			New London			011
196	19		New Orleans, LA, MSA	5560		
		026	Louisiana		22	
		036	Jefferson			051
		038	Orleans			071
		044	Plaquemines			075
		045	St. Bernard			087
		047	St. Charles			089
		048	St. James			093
		052	St. John the Baptist			095
			St. Tammany			103
197	33		New York, NY, PMSA	5600		
		029	New York		36	
		038	New York city			005
		040	Putnam			079
		056	Rockland			087
			Westchester			119

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Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
198	31		Newark, NJ, PMSA	5640		
			New Jersey		34	
		007	Essex			013
		014	Morris			027
		019	Sussex			037
		020	Union			039
		021	Warren			041
199	33		Newburgh, NY-PA, PMSA	5660		
			New York		36	
		034	Orange			071
	39		Pennsylvania		42	
		052	Pike			103
200	34		Norfolk-Virginia Beach-Newport News, VA-NC, MSA	5720		
			North Carolina		37	
		027	Currituck			053
	47		Virginia		51	
		026	Chesapeake city			550
		052	Gloucester			073
		058	Hampton city			650
		065	Isle of Wight			093
		066	James City			095
		081	Mathews			115
		087	Newport News city			700
		088	Norfolk city			710
		098	Poquoson city			735
		099	Portsmouth city			740
		123	Suffolk city			800
		127	Virginia Beach city			810
		132	Williamsburg city			830
		136	York			199
201	05		Oakland, CA, PMSA	5775		
			California		06	
		001	Alameda			001
		007	Contra Costa			013
202	10		Ocala, FL, MSA	5790		
			Florida		12	
		042	Marion			083
203	44		Odessa-Midland, TX, MSA	5800		
			Texas		48	
		068	Ector			135
		165	Midland			329
204	37		Oklahoma City, OK, MSA	5880		
			Oklahoma		40	
		009	Canadian			017
		014	Cleveland			027
		042	Logan			083
		044	McClain			087
		055	Oklahoma			109
		063	Pottawatomie			125
205	48		Olympia, WA, PMSA	5910		
			Washington		53	
		034	Thurston			067
206	16		Omaha, NE-IA, MSA	5920		
			Iowa		19	
		078	Pottawattamie			155
	28		Nebraska		31	
		013	Cass			025
		028	Douglas			055
		077	Sarpy			153
		089	Washington			177
207	05		Orange County, CA, PMSA	5945		
			California		06	
		030	Orange			059

United States
Puerto Rico

Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
208	10		Orlando, FL, MSA	5960		
			Florida		12	
		035	Lake			069
		048	Orange			095
		049	Osceola			097
		059	Seminole			117
209	18		Owensboro, KY, MSA	5990		
			Kentucky		21	
		030	Daviess			059
210	10		Panama City, FL, MSA	6015		
			Florida		12	
		003	Bay			005
211	36		Parkersburg-Marietta, WV-OH, MSA	6020		
			Ohio		39	
		084	Washington			167
		49	West Virginia		54	
		054	Wood			107
212	10		Pensacola, FL, MSA	6080		
			Florida		12	
		017	Escambia			033
		057	Santa Rosa			113
213	14		Peoria-Pekin, IL, MSA	6120		
			Illinois		17	
		072	Peoria			143
		090	Tazewell			179
		102	Woodford			203
214	31		Philadelphia, PA-NJ, PMSA	6160		
			New Jersey		34	
		003	Burlington			005
		004	Camden			007
		008	Gloucester			015
		017	Salem			033
			Pennsylvania		42	
		009	Bucks			017
		015	Chester			029
		023	Delaware			045
		046	Montgomery			091
		051	Philadelphia			101
215	03		Phoenix-Mesa, AZ, MSA	6200		
			Arizona		04	
		008	Maricopa			013
		012	Pinal			021
216	04		Pine Bluff, AR, MSA	6240		
			Arkansas		05	
		035	Jefferson			069
217	39		Pittsburgh, PA, MSA	6280		
			Pennsylvania		42	
		002	Allegheny			003
		004	Beaver			007
		010	Butler			019
		026	Fayette			051
		063	Washington			125
		065	Westmoreland			129
218	22		Pittsfield, MA, NECMA	6323		
			Massachusetts		25	
		002	Berkshire			003
219	20		Portland, ME, NECMA	6403		
			Maine		23	
		003	Cumberland			005

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Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
220	38		Portland-Vancouver, OR-WA, PMSA	6440		
			Oregon		41	
		003	Clackamas			005
		005	Columbia			009
		026	Multnomah			051
		034	Washington			067
		036	Yamhill			071
	48		Washington		53	
		006	Clark			011
221	40		Providence-Warwick-Pawtucket, RI, NECMA	6483		
			Rhode Island		44	
		001	Bristol			001
		002	Kent			003
		004	Providence			007
		005	Washington			009
222	45		Provo-Orem, UT, MSA	6520		
			Utah		49	
		025	Utah			049
223	06		Pueblo, CO, MSA	6560		
			Colorado		08	
		051	Pueblo			101
224	10		Punta Gorda, FL, MSA	6580		
			Florida		12	
		008	Charlotte			015
225	50		Racine, WI, PMSA	6600		
			Wisconsin		55	
		052	Racine			101
226	34		Raleigh-Durham-Chapel Hill, NC, MSA	6640		
			North Carolina		37	
		019	Chatham			037
		032	Durham			063
		035	Franklin			069
		051	Johnston			101
		068	Orange			135
		092	Wake			183
227	42		Rapid City, SD, MSA	6660		
			South Dakota		46	
		051	Pennington			103
228	39		Reading, PA, MSA	6680		
			Pennsylvania		42	
		006	Berks			011
229	05		Redding, CA, MSA	6690		
			California		06	
		045	Shasta			089
230	29		Reno, NV, MSA	6720		
			Nevada		32	
		016	Washoe			031
231	48		Richland-Kennewick-Pasco, WA, MSA	6740		
			Washington		53	
		003	Benton			005
		011	Franklin			021

United States
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Vital Statistics Codes					FIPS Codes	
P/MSA	State	County	P/MSA Name and County Components	P/MSA	State	Cnty
232	47		Richmond-Petersburg, VA, MSA	6760	51	
		023	Virginia			036
		027	Charles City			041
		030	Chesterfield			570
		037	Colonial Heights city			053
		053	Dinwiddie			075
		059	Goochland			085
		061	Hanover			087
		064	Henrico			670
		086	Hopewell city			127
		096	New Kent			730
		100	Petersburg city			145
		102	Powhatan			149
		108	Prince George			760
			Richmond city			
233	05		Riverside-San Bernardino, CA, PMSA	6780	06	
		033	California			065
		036	Riverside			071
			San Bernardino			
234	47		Roanoke, VA, MSA	6800	51	
		014	Virginia			023
		109	Botetourt			161
		110	Roanoke			770
		114	Roanoke city			775
			Salem city			
235	24		Rochester, MN, MSA	6820	27	
		055	Minnesota			109
			Olmsted			
236	33		Rochester, NY, MSA	6840	36	
		018	New York			037
		024	Genesee			051
		026	Livingston			055
		033	Monroe			069
		035	Ontario			073
		055	Orleans			117
			Wayne			
237	14		Rockford, IL, MSA	6880	17	
		004	Illinois			007
		071	Boone			141
		101	Ogle			201
			Winnebago			
238	34		Rocky Mount, NC, MSA	6895	37	
		033	North Carolina			065
		064	Edgecombe			127
			Nash			
239	05		Sacramento, CA, PMSA	6920	06	
		009	California			017
		031	El Dorado			061
		034	Placer			067
			Sacramento			
240	23		Saginaw-Bay City-Midland, MI, MSA	6960	26	
		009	Michigan			017
		056	Bay			111
		073	Midland			145
			Saginaw			
241	24		St. Cloud, MN, MSA	6980	27	
		005	Minnesota			009
		073	Benton			145
			Stearns			
242	26		St. Joseph, MO, MSA	7000	29	
		002	Missouri			003
		011	Andrew			021
			Buchanan			

United States
Puerto Rico

Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
243	14		St. Louis, MO-IL, MSA	7040		
			Illinois		17	
		014	Clinton			027
		042	Jersey			083
		060	Madison			119
		067	Monroe			133
		082	St. Clair			163
	26		Missouri		29	
		036	Franklin			071
		050	Jefferson			099
		057	Lincoln			113
		092	St. Charles			183
		095	St. Louis			189
		096	St. Louis city			510
		110	Warren			219
244	38		Salem, OR, PMSA	7080		
			Oregon		41	
		024	Marion			047
		027	Polk			053
245	05		Salinas, CA, MSA	7120		
			California		06	
		027	Monterey			053
246	45		Salt Lake City-Ogden, UT, MSA	7160		
			Utah		49	
		006	Davis			011
		018	Salt Lake			035
		029	Weber			057
247	44		San Angelo, TX, MSA	7200		
			Texas		48	
		226	Tom Green			451
248	44		San Antonio, TX, MSA	7240		
			Texas		48	
		015	Bexar			029
		046	Comal			091
		094	Guadalupe			187
		247	Wilson			493
249	05		San Diego, CA, MSA	7320		
			California		06	
		037	San Diego			073
250	05		San Francisco, CA, PMSA	7360		
			California		06	
		021	Marin			041
		038	San Francisco			075
		041	San Mateo			081
251	05		San Jose, CA, PMSA	7400		
			California		06	
		043	Santa Clara			085
252	05		San Luis Obispo-Atascadero-Paso Robles, CA, MSA	7460		
			California		06	
		040	San Luis Obispo			079
253	05		Santa Barbara-Santa Maria-Lompoc, CA, MSA	7480		
			California		06	
		042	Santa Barbara			083
254	05		Santa Cruz-Watsonville, CA, PMSA	7485		
			California		06	
		044	Santa Cruz			087
255	32		Santa Fe, NM, MSA	7490		
			New Mexico		35	
		016	Los Alamos			028
		027	Santa Fe			049

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Vital Statistics P/MSA	Codes State	County	P/MSA Name and County Components	FIPS P/MSA	Codes	
					State	Cnty
256	05	049	Santa Rosa, CA, PMSA California Sonoma	7500	06	097
257	10	041 058	Sarasota-Bradenton, FL, MSA Florida Manatee Sarasota	7510	12	081 115
258	11	015 025 051	Savannah, GA, MSA Georgia Bryan Chatham Effingham	7520	13	029 051 103
259	39	019 035 040 066	Scranton--Wilkes-Barre--Hazleton, PA, MSA Pennsylvania Columbia Lackawanna Luzerne Wyoming	7560	42	037 069 079 131
260	48	015 017 031	Seattle-Bellevue-Everett, WA, PMSA Washington Island King Snohomish	7600	53	029 033 061
261	39	043	Sharon, PA, MSA Pennsylvania Mercer	7610	42	085
262	50	060	Sheboygan, WI, MSA Wisconsin Sheboygan	7620	55	117
263	44	091	Sherman-Denison, TX, MSA Texas Grayson	7640	48	181
264	19	008 009 060	Shreveport-Bossier City, LA, MSA Louisiana Bossier Caddo Webster	7680	22	015 017 119
265	16	097 28 022	Sioux City, IA-NE, MSA Iowa Woodbury Nebraska Dakota	7720	19 31	193 043
266	42	041 049	Sioux Falls, SD, MSA South Dakota Lincoln Minnehaha	7760	46	083 099
267	15	071	South Bend, IN, MSA Indiana St. Joseph	7800	18	141
268	48	032	Spokane, WA, MSA Washington Spokane	7840	53	063
269	14	065 084	Springfield, IL, MSA Illinois Menard Sangamon	7880	17	129 167

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Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
270	26		Springfield, MO, MSA	7920		
			Missouri		29	
		022	Christian			043
		039	Greene			077
		113	Webster			225
271	22		Springfield, MA, NECMA	8003		
			Massachusetts		25	
		007	Hampden			013
		008	Hampshire			015
272	39		State College, PA, MSA	8050		
			Pennsylvania		42	
		014	Centre			027
273	36		Steubenville-Weirton, OH-WV, MSA	8080		
			Ohio		39	
		041	Jefferson			081
		49	West Virginia		54	
		005	Brooke			009
		015	Hancock			029
274	05		Stockton-Lodi, CA, MSA	8120		
			California		06	
		039	San Joaquin			077
275	41		Sumter, SC, MSA	8140		
			South Carolina		45	
		043	Sumter			085
276	33		Syracuse, NY, MSA	8160		
			New York		36	
		005	Cayuga			011
		025	Madison			053
		032	Onondaga			067
		036	Oswego			075
277	48		Tacoma, WA, PMSA	8200		
			Washington		53	
		027	Pierce			053
278	10		Tallahassee, FL, MSA	8240		
			Florida		12	
		020	Gadsden			039
		037	Leon			073
279	10		Tampa-St. Petersburg-Clearwater, FL, MSA	8280		
			Florida		12	
		027	Hernando			053
		029	Hillsborough			057
		051	Pasco			101
		052	Pinellas			103
280	15		Terre Haute, IN, MSA	8320		
			Indiana		18	
		011	Clay			021
		083	Vermillion			165
		084	Vigo			167
281	04		Texarkana, TX-Texarkana, AR, MSA	8360		
			Arkansas		05	
		046	Miller			091
		44	Texas		48	
		019	Bowie			037
282	36		Toledo, OH, MSA	8400		
			Ohio		39	
		026	Fulton			051
		048	Lucas			095
		087	Wood			173
283	17		Topeka, KS, MSA	8440		
			Kansas		20	
		089	Shawnee			177

United States
Puerto Rico

Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
284	31	011	Trenton, NJ, PMSA New Jersey Mercer	8480	34	021
285	03	011	Tucson, AZ, MSA Arizona Pima	8520	04	019
286	37	019 057 066 072 073	Tulsa, OK, MSA Oklahoma Creek Osage Rogers Tulsa Wagoner	8560	40	037 113 131 143 145
287	01	063	Tuscaloosa, AL, MSA Alabama Tuscaloosa	8600	01	125
288	44	212	Tyler, TX, MSA Texas Smith	8640	48	423
289	33	021 031	Utica-Rome, NY, MSA New York Herkimer Oneida	8680	36	043 065
290	05	028 048	Vallejo-Fairfield-Napa, CA, PMSA California Napa Solano	8720	06	055 095
291	05	056	Ventura, CA, PMSA California Ventura	8735	06	111
292	44	235	Victoria, TX, MSA Texas Victoria	8750	48	469
293	31	006	Vineland-Millville-Bridgeton, NJ, PMSA New Jersey Cumberland	8760	34	011
294	05	054	Visalia-Tulare-Porterville, CA, MSA California Tulare	8780	06	107
295	44	155	Waco, TX, MSA Texas McLennan	8800	48	309

United States
Puerto Rico

Vital Statistics Codes		FIPS Codes				
P/MSA	State	County	P/MSA Name and County Components	P/MSA	State	Cnty
296			Washington, DC-MD-VA-WV, PMSA	8840		
	09		Dist. of Columbia		11	
		001	District of Columbia			001
	21		Maryland		24	
		005	Calvert			009
		009	Charles			017
		011	Frederick			021
		016	Montgomery			031
		017	Prince George's			033
	47		Virginia		51	
		003	Alexandria city			510
		008	Arlington			013
		028	Clarke			043
		033	Culpeper			047
		040	Fairfax			059
		041	Fairfax city			600
		042	Falls Church city			610
		043	Fauquier			061
		049	Fredericksburg city			630
		068	King George			099
		073	Loudoun			107
		078	Manassas city			683
		079	Manassas Park city			685
		103	Prince William			153
		120	Spotsylvania			177
		121	Stafford			179
		128	Warren			187
	49		West Virginia		54	
		002	Berkeley			003
		019	Jefferson			037
297			Waterloo-Cedar Falls, IA, MSA	8920		
	16		Iowa		19	
		007	Black Hawk			013
298			Wausau, WI, MSA	8940		
	50		Wisconsin		55	
		037	Marathon			073
299			West Palm Beach-Boca Raton, FL, MSA	8960		
	10		Florida		12	
		050	Palm Beach			099
300			Wheeling, WV-OH, MSA	9000		
	36		Ohio		39	
		007	Belmont			013
	49		West Virginia		54	
		026	Marshall			051
		035	Ohio			069
301			Wichita, KS, MSA	9040		
	17		Kansas		20	
		008	Butler			015
		040	Harvey			079
		087	Sedgwick			173
302			Wichita Falls, TX, MSA	9080		
	44		Texas		48	
		005	Archer			009
		243	Wichita			485
303			Williamsport, PA, MSA	9140		
	39		Pennsylvania		42	
		041	Lycoming			081
304			Wilmington-Newark, DE-MD, PMSA	9160		
	08		Delaware		10	
		002	New Castle			003
	21		Maryland		24	
		008	Cecil			015

United States
Puerto Rico

Vital Statistics Codes			P/MSA Name and County Components	FIPS Codes		
P/MSA	State	County		P/MSA	State	Cnty
305	34		Wilmington, NC, MSA	9200	37	
		010	North Carolina			019
		065	Brunswick			129
			New Hanover			
306	48		Yakima, WA, MSA	9260	53	
		039	Washington			077
			Yakima			
307	05		Yolo, CA, PMSA	9270	06	
		057	California			113
			Yolo			
308	39		York, PA, MSA	9280	42	
		067	Pennsylvania			133
			York			
309	36		Youngstown-Warren, OH, MSA	9320	39	
		015	Ohio			029
		050	Columbiana			099
		078	Mahoning			155
			Trumbull			
310	05		Yuba City, CA, MSA	9340	06	
		051	California			101
		058	Sutter			115
			Yuba			
311	03		Yuma, AZ, MSA	9360	04	
		015	Arizona			027
			Yuma			

List of Primary Metropolitan Statistical Areas
and their Component Counties
For the United States and Puerto Rico

United States
Puerto Rico

Vital Statistics Codes					FIPS Codes
P/MSA	State	County	P/MSA Name and County Components	P/MSA	State Cnty
001	52		Aguadilla, PR, MSA Puerto Rico	0060	72
		002	Aguada		003
		003	Aguadilla		005
		051	Moca		099
002	52		Arecibo, PR, PMSA Puerto Rico	0470	72
		007	Arecibo		013
		014	Camuy		027
		034	Hatillo		065
003	52		Caguas, PR, PMSA Puerto Rico	1310	72
		013	Caguas		025
		018	Cayey		035
		021	Cidra		041
		033	Gurabo		063
		066	San Lorenzo		129
004	52		Mauaguez, PR, MSA Puerto Rico	4840	72
		006	Anasco		011
		012	Cabo Rojo		023
		035	Hormigueros		067
		050	Mayaguez		097
		062	Sabana Grande		121
		064	San German		125
005	52		Ponce, PR, MSA Puerto Rico	6360	72
		031	Guayanilla		059
		039	Juana Diaz		075
		057	Penuelas		111
		058	Ponce		113
		076	Villalba		149
		078	Yauco		153
006	52		San Juan-Bayamon, PR, PMSA Puerto Rico	7440	72
		004	Aguas Buenas		007
		009	Barceloneta		017
		011	Bayamon		021
		015	Canovanas		029
		016	Carolina		031
		017	Catano		033
		019	Ceiba		037
		023	Comerio		045
		024	Corozal		047
		026	Dorado		051
		027	Fajardo		053
		028	Florida		054
		032	Guaynabo		061
		036	Humacao		069
		040	Juncos		077
		044	Las Piedras		085
		045	Loiza		087
		046	Luquillo		089
		047	Manati		091
		052	Morovis		101
		053	Naguabo		103
		054	Naranjito		105
		061	Rio Grande		119
		065	San Juan		127
		069	Toa Alta		135
		070	Toa Baja		137
		071	Trujillo Alto		139
		073	Vega Alta		143
		074	Vega Baja		145
		077	Yabucoa		151

TECHNICAL APPENDIX FROM

**VITAL STATISTICS OF
THE UNITED STATES**

1999

NATALITY

**U.S. DEPARTMENT OF
HEALTH AND HUMAN SERVICES**

**CENTERS FOR DISEASE CONTROL AND PREVENTION
NATIONAL CENTER FOR HEALTH STATISTICS**

Hyattsville, Maryland: March 2001

VITAL STATISTICS OF THE UNITED STATES: NATALITY, 1999
TECHNICAL APPENDIX

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A copy of the technical appendix may be obtained by contacting the National Center for Health Statistics, Reproductive Statistics Branch at 301-458-4111.

**VITAL STATISTICS OF THE UNITED STATES: NATALITY, 1999
TECHNICAL APPENDIX**

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Introduction

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This document provides detailed information on the variables and the quality and completeness of the data on the public-use file for 1999 births, published by the Centers for Disease Control and Prevention's National Center for Health Statistics (1). This report supplements the Technical notes of "Births: Final Data for 1999" (2) and provides a thorough discussion of the definitions, coding, quality and completeness of the 1999 birth data (1). In addition, this report is recommended for use with the public-use file for 1999 births, available on CD-ROM from the National Center for Health Statistics, and the tabulated data of "Vital Statistics of the United States, 1999, Volume I, Natality" (in preparation).

Definition of live birth

Every product of conception that gives a sign of life after birth, regardless of the length of the pregnancy, is considered a live birth. This concept is included in the definition set forth by the World Health Organization in 1950 and revised in 1988 by a working group formed by the American Academy of Pediatrics and the American College of Obstetricians and Gynecologists (3,4,5):

Live birth is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which, after such separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered liveborn.

This definition distinguishes in precise terms a live birth from a fetal death (see the section on fetal deaths in the Technical Appendix of volume II, *Vital Statistics of the United States*). In the interest of comparable natality statistics, both the Statistical Commission of the United Nations and the Centers for Disease Control and Prevention's National Center for Health Statistics (NCHS) have adopted this definition (6,7).

History of birth-registration area

The national birth-registration area was proposed in 1850 and established in 1915. By 1933 all 48 States and the District of Columbia were participating in the registration system. The organized territories of Hawaii and Alaska were admitted in 1929 and 1950, respectively; data from these areas were prepared separately until they became States--Alaska in 1959 and Hawaii in 1960. Currently the birth-registration system of the United States covers the 50 States, the District of Columbia, the independent registration area of New York City, Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands. However, in the statistical tabulations, "United States" refers only to the aggregate of the 50 States (including New York City) and the District of Columbia.

The original birth-registration area of 1915 consisted of 10 States and the District of Columbia. The growth of this area is indicated in table 4-1. This table also presents for each year through 1932 the estimated midyear population of the United States and of those States included in the registration system.

Because of the growth of the area for which data have been collected and tabulated, a national series of geographically comparable data before 1933 can be obtained only by estimation. Annual estimates of births were prepared by P. K. Whelpton for 1909-34 (8). These estimates include adjustments for underregistration and for States that were not part of the birth-registration area before 1933.

Sources of data

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Natality statistics

Since 1985 natality statistics for all States and the District of Columbia have been based on information from the total file of records. The information is received on electronic files of individual records processed by the States and provided to NCHS through the Vital Statistics Cooperative Program. NCHS receives these files from the registration offices of all States, the District of Columbia, and New York City. Information for Puerto Rico and the Virgin Islands is also received through the Vital Statistics Cooperative Program. Information for Guam is obtained from microfilm copies of original birth certificates and is based on the total file of records for all years. Data from American Samoa first became available in 1997. Data from the Commonwealth of the Northern Mariana Islands (referred to as Northern Marianas) first became available in 1998. Similar to data from Guam, the data are obtained from microfilm copies of original birth certificates and are based on the total file of records.

Birth statistics for years prior to 1951 and for 1955 are based on the total file of birth records. Statistics for 1951-54, 1956-66, and 1968-71 are based on 50-percent samples except for data for Guam and the Virgin Islands, which are based on all records filed. During the processing of the 1967 data the sampling rate was reduced from 50 percent to 20 percent. For details of this procedure and its consequences for the 1967 data see pages 3-9 to 3-11 in volume I of *Vital Statistics of the United States, 1967*. From 1972 to 1984 statistics are based on all records filed in the States submitting computer tapes and on a 50-percent sample of records in all other States.

Information for years prior to 1970 for Puerto Rico, the Virgin Islands, and Guam is published in the annual vital statistics reports of the Department of Health of the Commonwealth of Puerto Rico, the Department of Public Health of the Virgin Islands, the Department of Public Health and Social Services of the Government of Guam, and in selected *Vital Statistics of the United States* annual reports.

U.S. natality data are limited to births occurring within the United States, including those occurring to U.S. residents and nonresidents. Births to nonresidents of the United States have been excluded from all tabulations by place of residence beginning in 1970 (for further discussion see "Classification by occurrence and residence"). Births occurring to U.S. citizens outside the United States are not included in any tabulations in this report. Similarly the data for Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Northern Marianas are limited to births registered in these areas.

Standard certificate of live birth

The U.S. Standard Certificate of Live Birth, issued by the Public Health Service, has served for many years as the principal means of attaining uniformity in the content of the documents used to collect information on births in the United States. It has been modified in each State to the extent required by the particular State's needs or by special provisions of the State's vital statistics law. However, most State certificates conform closely in content to the standard certificate.

The first standard certificate of birth was developed in 1900. Since then, it has been revised periodically by the national vital statistics agency through consultation with State health officers and registrars; Federal agencies concerned with vital statistics; national, State, and county medical societies; and others working in public health, social welfare, demography, and insurance. This procedure has assured careful evaluation of each item for its current and future usefulness for legal, medical, 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, dropped when their usefulness appeared to be limited.

1989 revision--Effective January 1, 1989, a revised U.S. Standard Certificate of Live Birth (figure 4-A) replaced the 1978 revision. This revision provided a wide variety of new information on maternal and infant health characteristics, representing a significant departure from previous versions in both content and format. The most significant format change was the use of check boxes to obtain detailed medical and health information about the mother and child. It has been demonstrated that this format produces higher quality and more complete information than do open-ended items.

The reformatted items included "Medical Risk Factors for This Pregnancy," which combines the former items "Complications of Pregnancy" and "Concurrent Illnesses or Conditions Affecting the Pregnancy." "Complications

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of Labor and/or Delivery” and “Congenital Anomalies of Child” also have been revised from the open-ended format. For each of these items at least 15 specific conditions have been identified.

Several new items were added to the revised certificate. Included are items to obtain information on tobacco and alcohol use during pregnancy, weight gain during pregnancy, obstetric procedures, method of delivery, and abnormal conditions of the newborn. These items can be used to monitor the health practices of the mother that can affect pregnancy and the use of technology in childbirth, and to identify babies with specific abnormal conditions. When combined with other socioeconomic and health data, these items provide a wealth of information relevant to the etiology of low birth weight and other adverse pregnancy outcomes.

Another modification was the addition of a Hispanic identifier for the mother and father. Although NCHS had recommended that States add items to identify the Hispanic or ethnic origin of the newborn's parents, concurrent with the 1978 revision of the U.S. Standard Certificate of Live Birth and reported data from the cooperating States since that year, the items were new to the U.S. Standard Certificate for 1989.

The 1989 revised certificate also provided more detail than previously requested on the birth attendant and place of birth. This permits a more in-depth analysis of the number and characteristics of births by attendant and type of facility and a comparison of differences in outcome. For further discussion see individual sections for each item.

Classification of data

One of the principal values of vital statistics data is realized through the presentation of rates that are computed by relating the vital events of a class to the population of a similarly defined class. Vital statistics and population statistics, therefore, must be classified according to similarly defined systems and tabulated in comparable groups. Even when the variables common to both, such as geographic area, age, race, and sex, have been similarly classified and tabulated, differences between the enumeration method of obtaining population data and the registration method of obtaining vital statistics data may result in significant discrepancies.

The general rules used to classify geographic and personal items for live births are set forth in “Vital Statistics Classification and Coding Instructions for Live Birth Records, 1999,” *NCHS Instruction Manual*, Part 3a (9). This material is incorporated in the basic file layout on the CD-ROM. The instruction materials are for States to use in coding the data items; they do not include any NCHS recodes. So, the file layout is a better source of information, since it provides the exact codes and recodes that are available. The classification of certain important items is discussed in the following pages. See table A for a listing of items and the percent of records that were not stated for each State, Puerto Rico, Virgin Islands, Guam, American Samoa, and the Northern Marianas.

Classification by occurrence and residence

Births to U.S. residents occurring outside this country are not reallocated to the United States. In tabulations by place of residence, births occurring within the United States to U.S. citizens and to resident aliens are allocated to the usual place of residence of the mother in the United States, as reported on the birth certificate. Beginning in 1970 births to nonresidents of the United States occurring in the United States are excluded from these tabulations. From 1966 to 1969 births occurring in the United States to mothers who were nonresidents of the United States were considered as births to residents of the exact place of occurrence; in 1964 and 1965 all such births were allocated to “balance of county” of occurrence even if the birth occurred in a city. The change in coding beginning in 1970 to exclude births to nonresidents of the United States from residence data significantly affects the comparability of data with years before 1970 only for Texas.

For the total United States the tabulations by place of residence and by place of occurrence are not identical. Births to nonresidents of the United States are included in data by place of occurrence but excluded from data by place of residence, as previously indicated. See table B for the number of births by residence and occurrence for the 50 States and the District of Columbia for 1999.

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Residence error--A nationwide test of birth-registration completeness in 1950 provided measures of residence error for natality statistics. According to this test, errors in residence reporting for the country as a whole tend to overstate the number of births to residents of urban areas and to understate the number of births to residents of other areas. This tendency has assumed special importance because of a concomitant development--the increased utilization of hospitals in cities by residents of nearby places--with the result that a number of births are erroneously reported as having occurred to residents of urban areas. Another factor that contributes to this overstatement of urban births is the customary practice of using "city" addresses for persons living outside the city limits. Residence error should be taken into consideration in interpreting data for small areas and for cities. Both birth and infant mortality patterns can be affected.

Incomplete residence--Beginning in 1973 where only the State of residence is reported with no city or county specified and the State named is different from the State of occurrence, the birth is allocated to the largest city of the State of residence. Before 1973 such births were allocated to the exact place of occurrence.

Geographic classification

The rules followed in the classification of geographic areas for live births are contained in the instruction manual mentioned previously. The geographic code structure for 1999 is given in another manual, "Vital Records Geographic Classification, 1995," *NCHS Instruction Manual*, Part 8 is included with the documentation file on CD-ROM (1). The geographic code structure in use is based on results of the 1990 Census of Population.

United States--In the statistical tabulations, "United States" refers only to the aggregate of the 50 States and the District of Columbia. Alaska has been included in the U.S. tabulations since 1959 and Hawaii since 1960.

Metropolitan statistical areas--The metropolitan statistical areas and primary metropolitan statistical areas (MSA's and PMSA's) used in this report are those established by the U.S. Office of Management and Budget as of April 1, 1990, and used by the U.S. Bureau of the Census (10) except in the New England States.

Except in the New England States, an MSA has either a city with a population of at least 50,000, or a Bureau of the Census urbanized area of at least 50,000 and a total MSA population of at least 100,000. A PMSA consists of a large urbanized county, or cluster of counties, that demonstrates very strong internal economic and social links and has a population over 1 million. When PMSA's are defined, the large area of which they are component parts is designated a Consolidated Metropolitan Statistical Area (CMSA) (11).

In the New England States the U.S. Office of Management and Budget uses towns and cities rather than counties as geographic components of MSA's and PMSA's. NCHS cannot, however, use this classification for these States because its data are not coded to identify all towns. Instead, the New England County Metropolitan Areas (NECMA's) are used. These areas are established by the U.S. Office of Management and Budget (12) and are made up of county units.

Metropolitan and nonmetropolitan counties--Independent cities and counties included in MSA's and PMSA's or NECMA's are included in data for metropolitan counties; all other counties are classified as nonmetropolitan.

Population-size groups--Beginning in 1994 vital statistics data for cities and certain other urban places have been classified according to the population enumerated in the 1990 Census of Population. Data are available for individual cities and other urban places of 100,000 or more population. Data for the remaining areas not separately identified are shown in the tables under the heading "Balance of area" or "Balance of county." Classification of areas for 1982-93 was determined by the population enumerated in the 1980 Census of Population. As a result of changes in the enumerated population between 1980 and 1990, some urban places identified in previous reports are no longer included, and a number of other urban places have been added.

Urban places other than incorporated cities for which vital statistics data are shown in the tabulated data in "Vital Statistics of the United States, Natality" include the following:

- C Each town in New England, New York, and Wisconsin and each township in Michigan, New Jersey, and Pennsylvania that had no incorporated municipality as a subdivision and had either 25,000 inhabitants or more,

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or a population of 10,000 to 25,000 and a density of 1,000 persons or more per square mile.

- C Each county in States other than those indicated above that had no incorporated municipality within its boundary and had a density of 1,000 persons or more per square mile. (Arlington County, Virginia, is the only county classified as urban under this rule.)
- C Each place in Hawaii with 10,000 or more population. (There are no incorporated cities in Hawaii.)

Places of less than 100,000 population are not separately identified on the public-use file because of confidentiality limitations.

Race or national origin

Beginning with the 1989 data year, birth data are tabulated primarily by race of mother. In 1988 and prior years the race or national origin shown in tabulations was that of the newborn child. The race of the child was determined for statistical purposes by an algorithm based on the race of the mother and father as reported on the birth certificate. When the parents were of the same race, the race of the child was the same as the race of the parents. When the parents were of different races and one parent was white, the child was assigned to the race of the other parent. When the parents were of different races and neither parent was white, the child was assigned to the race of the father, with one exception--if either parent was Hawaiian, the child was assigned to Hawaiian. If race was missing for one parent, the child was assigned the race of the parent for whom it was reported. When information on race was missing for both parents, the race of the child was considered not stated and the birth was allocated according to rules discussed on page 4 of the Technical Appendix, volume I, *Vital Statistics of the United States*, 1988. In 1989 the criteria for reporting the race of the parents did not change and continues to reflect the response of the informant (usually the mother). Beginning with the 1992 issue of *Vital Statistics of the United States*, Volume I, *Nativity*, trend data for years beginning with 1980 have been retabulated by race of mother.

The most important factor influencing the decision to tabulate births by race of the mother was the decennial revision of the U.S. Standard Certificate of Live Birth in 1989. This revision included many more health questions that are directly associated with the mother, including alcohol and tobacco use, weight gain during pregnancy, medical risk factors, obstetric procedures, complications of labor and/or delivery, and method of delivery. Additionally, many of the other items that have been on the birth certificate for more than two decades also relate directly to the mother, for example, marital status, education level, and receipt of prenatal care. It is more appropriate to use the race of the mother than the race of the child in tabulating these items.

A second factor has been the increasing incidence of interracial parentage. When race is aggregated into the four categories mandated in 1977 by the Office of Management and Budget, the proportion of children born to parents of different races is 5.1 percent, more than double the percent in 1977 (2.0 percent). More than half of these births were to white mothers and fathers of another race (55 percent in 1999). There have been two major consequences of the increasing interracial parentage. One is the effect on birth rates by race. The number of white births under the former procedures has been arbitrarily limited to infants whose parents were both white (or one parent if the race of only one parent was reported). At the same time, the number of births of other races has been arbitrarily increased to include all births to white mothers and fathers of other races. Thus, prior to 1989, if race of mother had been used, birth rates per 1,000 white women in a given age group would have been higher, while comparable rates for black women and women of other races would have been lower. The other consequence of increasing interracial parentage is the impact on the racial differential in various characteristics of births, particularly in cases where there is generally a large racial disparity, such as the incidence of low birthweight. In this instance, the racial differential is larger when the data are tabulated by race of mother rather than by race of child. The same effect has been noted for characteristics such as nonmarital childbearing, preterm births, late or no prenatal care, and low educational attainment of mother.

The third factor influencing the change is the growing proportion of births with race of father not stated, 14 percent in 1999. Although this proportion has stabilized and declined slightly in the 1990's, it is still higher than in 1979, 11 percent. The high proportion of records with the father's race not reported reflects the increase in the

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proportion of births to unmarried women; in many cases no information is reported on the father. These births were already assigned the race of the mother because there is no alternative. Tabulating births by race of mother provides a more uniform approach, rather than a necessarily arbitrary combination of parental races.

The change in the tabulation of births by race presents some problems when analyzing birth data by race, particularly trend data. The problem is likely to be acute for races other than white and black.

The categories for race or national origin are "White," "Black," "American Indian" (including Aleuts and Eskimos), "Chinese," "Japanese," "Hawaiian," "Filipino," and "Other Asian or Pacific Islander" (including Asian Indian). Before 1992 there was also an "other" category, which is now combined with the "Not stated" category. Before 1978 the category "Other Asian or Pacific Islander" was not identified separately but included with "Other" races. The separation of this category from "other" allows identification of the category "Asian or Pacific Islander" by combining the new category "Other Asian or Pacific Islander" with Chinese, Japanese, Hawaiian, and Filipino.

Beginning in 1992, NCHS contracted with seven States with the highest API populations to code births to additional API subgroups. The API subgroups include births to Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and other API women. The seven States included in this reporting area are: California, Hawaii, Illinois, New Jersey, New York, Texas, and Washington. At least two-thirds of the U.S. population of each of these additional API groups lived in the seven-State reporting area (13). The data are available on the detailed natality tapes and CD-ROMs beginning with the 1992 data year. An analytic report based on the 1992 data year is also available upon request (14). Minnesota began reporting additional API subgroups in 1996 and Virginia began reporting in 1998. Missouri and West Virginia started reporting in 1999 for a total of 11 reporting states.

The category "White" comprises births reported as white and births where race, as distinguished from Hispanic origin, is reported as Hispanic. Before 1964 all births for which race or national origin was not stated were classified as white. Beginning in 1964 changes in the procedures for allocating race when race or national origin is not stated have changed the composition of this category. (See discussion on "Race or national origin not stated.")

If the race or national origin of an Asian parent is ill-defined or not clearly identifiable with one of the categories used in the classification (for example, if "Oriental" is entered), an attempt is made to determine the specific race or national origin from the entry for place of birth. If the birthplace is China, Japan, or the Philippines, the race of the parent is assigned to that category. When race cannot be determined from birthplace, it is assigned to the category "Other Asian or Pacific Islander."

Race or national origin not stated--If the race of the mother is not defined or not identifiable with one of the categories used in the classification (0.6 percent of births in 1999) and the race of the father is known, the race of the father is assigned to the mother. Where information for both parents is missing, the race of the mother is allocated electronically according to the specific race of the mother on the preceding record with a known race of mother. Data for both parents were missing for only 0.4 percent of birth certificates for 1999. Nearly all statistics by race or national origin for the United States as a whole in 1962 and 1963 are affected by a lack of information for New Jersey, which did not report the race of the parents in those years. Birth rates by race for those years are computed on a population base that excluded New Jersey. For the method of estimating the U.S. population by age, sex, and race excluding New Jersey in 1962 and 1963, see page 4-8 in the Technical Appendix of volume I, *Vital Statistics of the United States*, 1963.

Age of mother

Beginning in 1989 an item on the birth certificate asks for "Date of Birth." In previous years, "Age (at time of this birth)" was requested. Not all States revised this item and therefore the age of mother either is derived from the reported month and year of birth or coded as stated on the certificate. In 1999, the mother's age was reported directly by five States (Kentucky, Nevada, North Dakota, Virginia, and Wyoming) and American Samoa. From 1964 to 1996, the age of mother was edited for 10-49 years. When the age of mother was computed to be under 10 years or 50 years or over, it was considered not stated and was assigned as described below. Beginning in 1997, age of mother is edited for ages 10-54 years. When the age of mother is computed to be under 10 years or 55 years or

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over, it is considered not stated and was assigned as described below. A review and verification of unedited birth data for 1996 showed that the vast majority of births reported as occurring to women aged 50 years and older were to women aged 50-54 years. The number of births to women 50-54 years is too small for computing age-specific birth rates. These births have been included with births to women 45-49 for computing birth rates.

Age-specific birth rates are based on populations of women by age, prepared by the U.S. Bureau of the Census. In census years the decennial census counts are used. In intercensal years, estimates of the population of women by age are published by the U.S. Bureau of the Census in *Current Population Reports*.

The 1990 Census of Population derived age in completed years as of April 1, 1990, from the responses to questions on age at last birthday and month and year of birth, with the latter given preference. In the 1960, 1970, and the 1980 Census of Population, age was also derived from month and year of birth. "Age in completed years" was asked in censuses before 1960. This was nearly the equivalent of the former birth certificate question, which the 1950 test of matched birth and census records confirms by showing a high degree of consistency in reporting age in these two sources (15). More recently, reporting of maternal age on the birth certificate was compared with reporting of age in a survey of women who had recently given birth. Reporting of age was very consistent between the two sources (16).

Median age of mother--Median age is the value that divides an age distribution into two equal parts, one-half of the values being less and one-half being greater. Median ages of mothers for 1960 to the present have been computed from birth rates for 5-year age groups rather than from birth frequencies. This method eliminates the effects of changes in the age composition of the childbearing population over time. Changes in the median ages from year to year can thus be attributed solely to changes in the age-specific birth rates. Trend data on the median age is shown in table 1-5 of "Vital Statistics of the United States, volume 1, natality (at <http://www.cdc.gov/nchs/datawh/statab/unpubd/natality/natab97.htm>).

Not stated date of birth of mother-- In 1999, age of mother was not reported on 0.02% of the records. Beginning in 1964 birth records with date of birth of mother and/or age of mother not stated have had age imputed according to the age of mother from the previous birth record of the same race and total-birth order (total of fetal deaths and live births). (See "Computer Edits for Natality Data, Effective 1993" NCHS Instruction Manual, Part 12, page 9; available on request from the Division of Vital Statistics.) In 1963 birth records with age not stated were allocated according to the age appearing on the record previously processed for a mother of identical race and parity (number of live births). For 1960-62 not stated ages were distributed in proportion to the known ages for each racial group. Before 1960 this was done for age-specific birth rates but not for the birth frequency tables, which showed a separate category for age not stated.

Age of father

Age of father is derived from the reported date of birth or coded as stated on the birth certificate. If the age is under 10 years, it is considered not stated and grouped with those cases for which age is not stated on the certificate. Information on age of father is often missing on birth certificates of children born to unmarried mothers, greatly inflating the number of "not stated" in all tabulations by age of father. In computing birth rates by age of father, births tabulated as age of father not stated are distributed in the same proportions as births with known age within each 5-year-age classification of the mother. This procedure is followed because, while father's age is missing in 14 percent of the birth certificates in 1999, one third of these were on records where the mother is a teenager. This distribution procedure is done separately by race. The resulting distributions are summed to form a composite frequency distribution that is the basis for computing birth rates by age of father. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded. Births with age of father not stated are distributed only for rates and means, not for frequency tabulations (2).

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Live-birth order and parity

Live-birth order and parity classifications refer to the total number of live births the mother has had including the 1999 birth. Fetal deaths are excluded.

Live-birth order indicates what number the present birth represents; for example, a baby born to a mother who has had two previous live births (even if one or both are not now living) has a live-birth order of three. Parity indicates how many live births a mother has had. Before delivery a mother having her first baby has a parity of zero and a mother having her third baby has a parity of two. After delivery the mother of a baby who is a first live birth has a parity of one and the mother of a baby who is a third live birth has a parity of three.

Live-birth order and parity are determined from two items on the birth certificate, "Live births now living" and "Live births now dead."

Not stated birth order--Before 1969 if both of these items were blank, the birth was considered a first birth. Beginning in 1969, births for which the pregnancy history items were not completed have been tabulated as live-birth order not stated. As a result of this revised procedure, 22,686 births in 1969 that would have been assigned to the "First birth order" category under the old rules were assigned to the "Not stated" category.

All births tabulated in the "Not stated birth order" category are excluded from the computation of percents. In computing birth rates by live-birth order, births tabulated as birth order not stated are distributed in the same proportion as births of known live-birth order.

Date of last live birth

The date of last live birth was added to the U.S. Standard Certificate of Live Birth in 1968 for the purpose of providing information on child spacing. The interval since the last live birth is the difference between the date of last live birth and the date of present birth.

Beginning in 1995, NCHS ceased to collect information on the date of last live birth and thus the information on interval is only available from birth certificate data from 1968-94.

Educational attainment

Data on the educational attainment of both parents were collected beginning in 1968 and tabulated for publication in 1969 for the first time. Data on educational attainment is currently available only for the mother. Beginning in 1995, NCHS ceased to collect information on the educational attainment of the father and thus the information is available from birth certificate data only for 1969-94.

The educational attainment of the mother is defined as "the number of years of school completed." Only those years completed in "regular" schools are counted, that is, a formal educational system of public schools or the equivalent in accredited private or parochial schools. Business or trade schools, such as beauty and barber schools, are not considered "regular" schools for the purposes of this item. No attempt has been made to convert years of school completed in foreign school systems, ungraded school systems, and so forth, to equivalent grades in the American school system. Such entries are included in the category "not stated."

Women who have completed only a partial year in high school or college are tabulated as having completed the highest preceding grade. For those certificates on which a specific degree is stated, years of school completed is coded to the level at which the degree is most commonly attained; for example, women reporting B.A., A.B., or B.S. degrees are considered to have completed 16 years of school.

Education not stated--The category "Not stated" includes all records in reporting areas for which there is no information on years of school completed as well as all records for which the information provided is not compatible with coding specifications.

Births tabulated as education not stated are excluded from the computations of percents.

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Marital status

National estimates of births to unmarried women are based on two methods of determining marital status. For 1994 through 1996, birth certificates in 45 states and the District of Columbia included a question about the mother's marital status. Beginning in 1997, the marital status of women giving birth in California and Nevada is determined by a direct question in the birth registration process. Beginning June 15, 1998, Connecticut discontinued inferring the mother's marital status and added a direct question on mother's marital status to the State's birth certificate.

In the two States (Michigan and New York) which used inferential procedures to compile birth statistics by marital status in 1999, a birth is inferred as nonmarital if either of these factors is present: a paternity acknowledgment was received or the father's name is missing. In recent years, a number of States have extended their efforts to identify the fathers when the parents are not married in order to enforce child support obligations. The presence of a paternity acknowledgment therefore is the most reliable indicator that the birth is nonmarital in the States not reporting this information directly; this is now the key indicator in the nonreporting States. The inferential procedures in current use represent a substantial departure from the method used before 1980 as well as those used during the 1980's to prepare national estimates of births to unmarried women, before 1980 the incidence of births to unmarried women in States with no direct question on marital status was assumed to be the same as the incidence in reporting States in the same geographic division (17). Inferential procedures in use during the 1980's relied heavily on a comparison of the surnames of the parents and the child to infer the mother's marital status. The procedures now in use depend, as noted above, on very reliable indicators, namely a paternity affidavit or missing information on the father.

The procedures for reporting marital status in California, Nevada, New York City changed beginning January 1, 1997. The methods used to determine marital status and the impact of the procedures on the data were discussed in detail in a previous report (17).

The use of inferential marital status data together with information from a direct question represents an attempt to use related information on the birth certificate to improve the quality of national data as well as to provide data for the individual nonreporting States. An evaluation of this method and its validity for California (the largest nonreporting State until 1997) has been published (18). Because of the continued substantial increases in nonmarital childbearing throughout the 1980's, the data have been intensively evaluated by the Division of Vital Statistics, NCHS (17).

The mother's marital status was not reported in 1999 on 0.03 percent of the birth records in States reporting this information from a direct question. Marital status was imputed as "married" for these records.

When births to unmarried women are reported as second or higher order births, it is not known whether the mother was married or unmarried when the previous deliveries occurred, because her marital status at the time of these earlier births is not available from the birth record.

Rates for 1940 and 1950 are based on decennial census counts. Rates for 1955-97 are based on a smoothed series of population estimates (17,19). Because of sampling error, the original U.S. Bureau of the Census population estimates by marital status fluctuate erratically from year to year; therefore, they have been smoothed so that the rates do not show similar variations. These rates differ from those published in volumes of *Vital Statistics of the United States* before 1969, which were based on the original estimates provided annually by the U.S. Bureau of the Census. Birth rates by marital status for 1971-79 have been revised and differ from rates published before 1980 in volumes of *Vital Statistics of the United States* (see "Computation of rates and other measures").

Place of delivery and attendant at birth

The 1989 revision of the U.S. Standard Certificate of Live Birth included separate categories for freestanding birthing centers, the mother's residence, and clinic or doctor's office as the place of birth. Prior to 1989, place of birth was classified simply as either "In hospital" or "Not in hospital." Births occurring in hospitals, institutions, clinics, centers, or homes were included in the category "In hospital." In this context the word "homes" does not refer to the mother's residence but to an institution, such as a home for unmarried women. Birthing centers were

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included in either category, depending on each State's assessment of the facility. Beginning in 1989 births occurring in clinics and in birthing centers not attached to a hospital are classified as "Not in hospital." This change in classification may account in part for the lower proportion of "In hospital" births compared with previous years. (The change in classification of clinics should have minor impact because comparatively few births occur in these facilities, but the effect of any change in classification of freestanding birthing centers is unknown.)

Beginning in 1975 the attendant at birth and place of delivery items were coded independently, primarily to permit the identification of the person in attendance at hospital deliveries. The 1989 certificate includes separate classifications for doctor of medicine (MD), doctor of osteopathy (DO), certified nurse midwife (CNM), other midwife, and other attendants. In earlier certificates births attended by certified nurse midwives were grouped with those attended by lay midwives. The 1989 certificate also facilitated the identification of home births, births in freestanding birthing centers, and births in clinics or physician offices.

Data for the "In hospital" category for 1975-88 include all births in clinics or maternity centers, regardless of the attendant. Data for 1975-77 published before 1980 included clinic and center births in the category "In hospital" only when the attendant was a physician. Therefore, data shown for 1975-77 published after 1980 differ from data published before 1980. As a result of this change, for 1975 an additional 12,352 births were classified as occurring in hospitals, raising the percent of births occurring in hospitals from 98.7 to 99.1. Similarly, for 1976 the number of births occurring in hospitals increased by 14,133 and the percent in hospitals raised from 98.6 to 99.1; for 1977 the increase is 15,937 and the percent in hospitals raised from 98.5 to 99.0. For 1974 and earlier the "In hospital" category includes all births in hospitals or institutions and births in clinics, centers, or maternity homes only when attended by physicians.

The "Not in hospital" category includes births for which no information is reported on place of birth. Before 1975 births for which the stated place of birth was a "doctor's office" and delivery was by a physician were included in the category "In hospital." Beginning in 1975 these births were tabulated as "Not in hospital" and included with births delivered by physicians in this category. Although the actual number of such births is unknown, the effect of the change is minimal. In 1974, 0.3 percent of all births were delivered by physicians outside of hospitals; in 1975 this proportion was 0.4 percent.

Babies born on the way to or on arrival at the hospital are classified as having been born in the hospital. This may account for some of the hospital births not delivered by physicians or midwives.

Beginning in 1993, all in-hospital births occurring in Illinois where the attendant was classified as an "other" midwife were changed to certified nurse-midwife. This was necessary because almost all of these births were delivered by midwives certified by the American College of Nurse Midwives but because Illinois does not certify midwives, many of these births were classified as "other" midwives.

Procedures in some hospitals may require that a physician be listed as the attendant for every birth and that a physician sign each birth certificate, even if the birth is attended by a midwife and no physician is physically present. Therefore, the number of live births attended by midwives may be understated in some areas.

Birthweight

Birthweight is reported in some areas in pounds and ounces rather than in grams. However, the metric system has been used in tabulating and presenting the statistics to facilitate comparison with data published by other groups. The categories for birthweight were changed in 1979 to be consistent with the recommendations in the *Ninth Revision of the International Classification of Diseases (ICD-9)* and remain the same for the Tenth Revision of the International Classification of Diseases (ICD-10) (4). The categories in gram intervals and their equivalents in pounds and ounces are as follows:

Less than 500 grams = 1 lb 1 oz or less

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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

The ICD-9 defines low birthweight as less than 2,500 grams. This is a shift of 1 gram from the previous criterion of 2,500 grams or less, which was recommended by the American Academy of Pediatrics in 1935 and adopted in 1948 by the World Health Organization in the *Sixth Revision of the International Lists of Diseases and Causes of Death*.

After data classified by pounds and ounces are converted to grams, median weights are computed and rounded before publication. To establish the continuity of class intervals needed to convert pounds and ounces to grams, the end points of these intervals are assumed to be half an ounce less at the lower end and half an ounce more at the upper end. For example, 2 lb 4 oz-3 lb 4 oz is interpreted as 2 lb 3 ½ oz-3 lb 4 ½ oz.

Births for which birthweight is not reported are excluded from the computation of percents and medians.

Period of gestation

The period of gestation is defined as beginning with the first day of the last normal menstrual period (LMP) and ending with the day of the birth. 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 the LMP.

Births occurring before 37 completed weeks of gestation are considered to be “preterm” or “premature” for purposes of classification. At 37-41 weeks gestation, births are considered to be “term,” and at 42 completed weeks and over, “postterm.” These distinctions are according to the ICD-9 and ICD-10 (4) definitions.

The 1989 revision of the U.S. Standard Certificate of Live Birth included a new item, “clinical estimate of gestation,” that is being compared with length of gestation computed from the LMP date when the latter appears to be inconsistent with birthweight. This is done for normal weight births of apparently short gestations and very low birthweight births reported to be full term. The clinical estimate also was used if the date of the LMP was not reported. The period of gestation for 5.1 percent of the births in 1999 was based on the clinical estimate of gestation. For 97 percent of these records the clinical estimate was used because the LMP date was not reported. For the remaining 3 percent the clinical estimate was used because it was compatible with the reported birth weight, whereas the LMP-computed gestation was not. In cases where the reported birthweight was inconsistent with both the LMP-computed gestation and the clinical estimate of gestation, the LMP-computed gestation was used if it was within 5 weeks of the clinical estimate and birth weight was reclassified as “not stated.” This was necessary for 336 births, less than 0.01 percent of all birth records in 1999. If the reported birthweight was inconsistent with both the LMP-computed gestation and the clinical estimate of gestation, gestation and birthweight were classified as “not stated” if the LMP-computed gestation was not within 5 weeks of the clinical estimate. These changes result in only a very small discontinuity in the data.

Before 1981 the period of gestation was computed only when there was a valid month, day, and year of LMP. However, length of gestation could not be determined from a substantial number of live-birth certificates each year because the day of LMP was missing. Beginning in 1981 weeks of gestation have been imputed for records with missing day of LMP when there is a valid month and year. Each such record is assigned the gestational period in weeks of the preceding record that has a complete LMP date with the same computed months of gestation and the same 500-gram birthweight interval. The effect of the imputation procedure is to increase slightly the proportion of

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preterm births and to lower the proportion of births at 39, 40, 41, and 42 weeks of gestation. A more complete discussion of this procedure and its implications is presented in a previous report (20).

Because of postconception bleeding or menstrual irregularities, the presumed date of LMP may be in error. In these instances the computed gestational period may be longer or shorter than the true gestational period, but the extent of such errors is unknown.

Month of pregnancy prenatal care began

For those records in which the name of the month is entered for this item, instead of first, second, third, and so forth, the month of pregnancy in which prenatal care began is determined from the month named and the month last normal menses began. For these births, if the item "Date last normal menses began" is not stated, the month of pregnancy in which prenatal care began is tabulated as not stated.

Number of prenatal visits

Tabulations of the number of prenatal visits were presented for the first time in 1972. Beginning in 1989 these data were collected from the birth certificates of all States. Percent distributions and the median number of prenatal visits exclude births to mothers who had no prenatal care.

Apgar score

The 1- and 5-minute Apgar scores were added to the U.S. Standard Certificate of Live Birth in 1978 to evaluate the condition of the newborn infant at 1 and 5 minutes after birth. The Apgar score is a useful measure of the need for resuscitation and a predictor of the infant's chances of surviving the first year of life. It is a summary measure of the infant's condition based on heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each of these factors is given a score of 0, 1, or 2; the sum of these 5 values is the Apgar score, which ranges from 0 to 10. A score of 10 is optimum, and a low score raises some doubts about the survival and subsequent health of the infant. Beginning in 1995, NCHS only collected information on the 5-minute Apgar score. Since 1991, the reporting area for the 5-minute Apgar score has been comprised of 48 States and the District of Columbia, accounting for 78 percent of all births in the United States in 1999. California and Texas did not have information on Apgar scores on their birth certificate.

Tobacco and alcohol use during pregnancy

The checkbox format allows for classification of a mother as a smoker or drinker during pregnancy and for reporting the average number of cigarettes smoked per day or drinks consumed per week. When smoking and/or drinking status is not reported or is inconsistent with the quantity of cigarettes or drinks reported, the status is changed to be consistent with the amount reported. For example, if the drinking status is reported as "no" but one or more average drinks a week are reported, the mother is classified as a drinker. If the number of cigarettes smoked per day is reported as one or more, the mother is considered a smoker. When one (or a fraction of one) drink a week is recorded, the mother is classified as a drinker. For records on which the number of drinks or number of cigarettes is reported as a span, for example, 10-15, the lower number is used. The number of drinkers and number of drinks reported on birth certificates are believed to underestimate actual alcohol use.

For 1999, information on number of cigarettes smoked per day was reported in a consistent manner for 46 States, the District of Columbia, and New York City (figure 4-A). Indiana and New York State (except for New York City) reported this information but in a format that was inconsistent with the NCHS standards. This reporting area accounted for 87 percent of all births in the U.S. in 1999. Information was not available for California and South Dakota.

Weight gained during pregnancy

Weight gain is reported in pounds. A loss of weight is reported as zero gain. Computations of median weight

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gain were based on ungrouped data. This item was included on the certificates of 49 States and the District of Columbia; California did not report this information. This reporting area excluding California accounted for 87 percent of all births in the United States in 1999.

Medical risk factors for this pregnancy

An item on medical risk factors was included on the 1989 birth certificate, but 2 States did not report all of the 16 risk factors in 1999. Texas did not report genital herpes or uterine bleeding, and Kansas did not report Rh sensitization.

The format allows for the designation of more than one risk factor and includes a choice of "None." Accordingly, if the item is not completed, it is classified as "Not stated."

The following definitions are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the Association for Vital Records and Health Statistics (21).

Definitions of medical terms:

Anemia--Hemoglobin level of less than 10.0 g/dL during pregnancy or a hematocrit of less than 30 percent during pregnancy.

Cardiac disease--Disease of the heart.

Acute or chronic lung disease--Disease of the lungs during pregnancy.

Diabetes--Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset, and gestational diabetes during pregnancy.

Genital herpes--Infection of the skin of the genital area by herpes simplex virus.

Hydramnios/oligohydramnios--Any noticeable excess (hydramnios) or lack (oligohydramnios) of amniotic fluid.

Hemoglobinopathy--A blood disorder caused by alteration in the genetically determined molecular structure of hemoglobin (for example, sickle cell anemia).

Hypertension, chronic--Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation.

Hypertension, pregnancy-associated--An increase in blood pressure of at least 30 mm Hg systolic or 15 mm Hg diastolic on two measurements taken 6 hours apart after the 20th week of gestation.

Eclampsia--The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of pre-eclampsia.

Incompetent cervix--Characterized by painless dilation of the cervix in the second trimester or early in the third trimester of pregnancy, with prolapse of membranes through the cervix and ballooning of the membranes into the vagina, followed by rupture of membranes and subsequent expulsion of the fetus.

Previous infant 4,000+ grams--The birthweight of a previous live-born child was over 4,000 grams (8 lbs 13 oz).

Previous preterm or small-for-gestational-age infant--Previous birth of an infant prior to term (before 37 completed weeks of gestation) or of an infant weighing less than the 10th percentile for gestational age using a standard weight-for-age chart.

Renal disease--Kidney disease.

Rh sensitization--The process or state of becoming sensitized to the Rh factor as when an Rh-negative woman is pregnant with an Rh-positive fetus.

Uterine bleeding--Any clinically significant bleeding during the pregnancy, taking into consideration the stage of pregnancy; any second or third trimester bleeding of the uterus prior to the onset of labor.

Obstetric procedures

This item includes six specific obstetric procedures. Birth records with "Obstetric procedures" left blank are

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considered “not stated.” Data on obstetric procedures were reported by all States and the District of Columbia in 1999.

The following definitions are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the National Association for Public Health Statistics and Information Systems (NAPHSIS), formerly the Association for Vital Records and Health Statistics (21).

Definitions of medical terms:

Amniocentesis--Surgical transabdominal perforation of the uterus to obtain amniotic fluid to be used in the detection of genetic disorders, fetal abnormalities, and fetal lung maturity.

Electronic fetal monitoring--Monitoring with external devices applied to the maternal abdomen or with internal devices with an electrode attached to the fetal scalp and a catheter through the cervix into the uterus, to detect and record fetal heart tones and uterine contractions.

Induction of labor--The initiation of uterine contractions before the spontaneous onset of labor by medical and/or surgical means for the purpose of delivery.

Stimulation of labor--Augmentation of previously established labor by use of oxytocin.

Tocolysis--Use of medications to inhibit preterm uterine contractions to extend the length of pregnancy and therefore avoid a preterm birth.

Ultrasound--Visualization of the fetus and placenta by means of sound waves.

Complications of labor and/or delivery

The checkbox format allows for the selection of 15 specific complications and for the designation of more than 1 complication where appropriate. A choice of “None” is also included. Accordingly, if the item is not completed, it is classified as “not stated.”

All States and the District of Columbia included this item on their birth certificates in 1999. However, Texas did not report all of the complications. Texas did not report anesthetic complications or fetal distress.

The following definitions are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials (21).

Definitions of medical terms:

Febrile--A fever greater than 100 degrees F. or 38 C. occurring during labor and/or delivery.

Meconium, moderate/heavy--Meconium consists of undigested debris from swallowed amniotic fluid, various products of secretion, excretion, and shedding by the gastrointestinal tract; moderate to heavy amounts of meconium in the amniotic fluid noted during labor and/or delivery.

Premature rupture of membranes (more than 12 hours)--Rupture of the membranes at any time during pregnancy and more than 12 hours before the onset of labor.

Abruptio placenta--Premature separation of a normally implanted placenta from the uterus.

Placenta previa--Implantation of the placenta over or near the internal opening of the cervix.

Other excessive bleeding--The loss of a significant amount of blood from conditions other than abruptio placenta or placenta previa.

Seizures during labor--Maternal seizures occurring during labor from any cause.

Precipitous labor (less than 3 hours)--Extremely rapid labor and delivery lasting less than 3 hours.

Prolonged labor (more than 20 hours)--Abnormally slow progress of labor lasting more than 20 hours.

Dysfunctional labor--Failure to progress in a normal pattern of labor.

Breech/malpresentation--At birth, the presentation of the fetal buttocks rather than the head, or other malpresentation.

Cephalopelvic disproportion--The relationship of the size, presentation, and position of the fetal head to the maternal pelvis prevents dilation of the cervix and/or descent of the fetal head.

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Cord prolapse--Premature expulsion of the umbilical cord in labor before the fetus is delivered.

Anesthetic complications--Any complication during labor and/or delivery brought on by an anesthetic agent or agents.

Fetal distress--Signs indicating fetal hypoxia (deficiency in amount of oxygen reaching fetal tissues).

Abnormal conditions of the newborn

This item provides information on eight specific abnormal conditions. More than one abnormal condition may be reported for a given birth or "None" may be selected. If the item is not completed it is tabulated as "not stated." This item was included on the birth certificates of all States and the District of Columbia in 1999. However, four areas did not include all conditions. Nebraska and Texas did not report birth injury, New York City did not report assisted ventilation less than 30 minutes or assisted ventilation of 30 minutes or more, and Wisconsin did not report fetal alcohol syndrome.

The following definitions are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics (21).

Definitions of medical terms:

Anemia--Hemoglobin level of less than 13.0 g/dL or a hematocrit of less than 39 percent.

Birth injury--Impairment of the infant's body function or structure due to adverse influences that occurred at birth.

Fetal alcohol syndrome--A syndrome of altered prenatal growth and development occurring in infants born of women who consumed excessive amounts of alcohol during pregnancy.

Hyaline membrane disease/RDS--A disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth.

Meconium aspiration syndrome--Aspiration of meconium by the fetus or newborn, affecting the lower respiratory system.

Assisted ventilation (less than 30 minutes)--A mechanical method of assisting respiration for newborns with respiratory failure.

Assisted ventilation (30 minutes or more)--Newborn placed on assisted ventilation for 30 minutes or longer.

Seizures--A seizure of any etiology.

Congenital anomalies of child

The data provided in this item relate to 21 specific anomalies or anomaly groups. It is well documented that congenital anomalies, except for the most visible and most severe, are incompletely reported on birth certificates (22). The completeness of reporting specific anomalies depends on how easily they are recognized in the short time between birth and birth-registration. Forty-nine States and the District of Columbia included this item on their birth certificates (New Mexico did not). This reporting area included 99 percent of all births in the United States in 1999. The format allows for the identification of more than one anomaly including a choice of "None" should no anomalies be evident. The category "not stated" includes birth records for which the item is not completed.

The following definitions are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials (21).

Definitions of medical terms:

Anencephalus--Absence of the cerebral hemispheres.

Spina bifida/meningocele--Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.

Hydrocephalus--Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with

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consequent enlargement of the cranium.

Microcephalus--A significantly small head.

Other central nervous system anomalies--Other specified anomalies of the brain, spinal cord, and nervous system.

Heart malformations--Congenital anomalies of the heart.

Other circulatory/respiratory anomalies--Other specified anomalies of the circulatory and respiratory systems.

Rectal atresia/stenosis--Congenital absence, closure, or narrowing of the rectum.

Tracheo-esophageal fistula/Esophageal atresia--An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.

Omphalocele/gastroschisis--An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

Other gastrointestinal anomalies--Other specified congenital anomalies of the gastrointestinal system.

Malformed genitalia--Congenital anomalies of the reproductive organs.

Renal agenesis--One or both kidneys are completely absent.

Other urogenital anomalies--Other specified congenital anomalies of the organs concerned in the production and excretion of urine, together with organs of reproduction.

Cleft lip/palate--Cleft lip is a fissure of elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.

Polydactyly/syndactyly/adactyly--Polydactyly is the presence of more than five digits on either hands and/or feet; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.

Club foot--Deformities of the foot, which is twisted out of shape or position.

Diaphragmatic hernia--Herniation of the abdominal contents through the diaphragm into the thoracic cavity usually resulting in respiratory distress.

Other musculoskeletal/integumental anomalies--Other specified congenital anomalies of the muscles, skeleton, or skin.

Down's syndrome--The most common chromosomal defect with most cases resulting from an extra chromosome (trisomy 21).

Other chromosomal anomalies--All other chromosomal aberrations.

Method of delivery

The birth certificate contains a checkbox item on method of delivery. The choices include vaginal delivery, with the additional options of forceps, vacuum, and vaginal birth after previous cesarean section (VBAC), as well as a choice of primary or repeat cesarean. When only forceps, vacuum, or VBAC is checked, a vaginal birth is assumed. In 1999 this information was collected from the birth certificates of all States and the District of Columbia.

Several rates are computed for method of delivery. The overall cesarean section rate or total cesarean rate is computed as the proportion of all births that were delivered by cesarean section. The primary cesarean rate is a measure that relates the number of women having a primary cesarean birth to all women giving birth who have never had a cesarean delivery. The denominator for this rate is the sum of women with a vaginal birth excluding VBACs and women with a primary cesarean birth. The rate for vaginal birth after previous cesarean (VBAC) delivery is computed by relating all VBAC deliveries to the sum of VBAC and repeat cesarean deliveries, that is, to women with a previous cesarean section. VBAC rates for first births exist because the rates are computed on the basis of previous pregnancies, not just live births.

Hispanic parentage

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Concurrent with the 1978 revision of the U.S. Certificate of Live Birth, NCHS recommended that items to identify the Hispanic or ethnic origin of the newborn's parents be included on birth certificates and has tabulated and evaluated these data from the reporting States. The 1989 revision of the U.S. Standard Certificate of Live Births includes items to identify the Hispanic origin of the parents. All 50 States and the District of Columbia reported Hispanic origin of the parents for 1999. In 1989 Louisiana, New Hampshire, and Oklahoma did not report this information; in 1990 New Hampshire and Oklahoma did not report, and in 1991-92 New Hampshire did not report Hispanic origin.

In computing birth and fertility rates for the Hispanic population, births with origin of mother not stated are included with non-Hispanic births rather than being distributed. Thus, rates for the Hispanic population are underestimates of the true rates to the extent that the births with origin of mother not stated (1.2 percent in 1999) were actually to Hispanic mothers. The population with origin not stated was imputed. The effect on the rates is believed to be small.

Quality of data

Although vital statistics data are useful for a variety of administrative and scientific purposes, they cannot be correctly interpreted unless various qualifying factors and methods of classification are taken into account. The factors to be considered depend on the specific purposes for which the data are to be used. It is not feasible to discuss all the pertinent factors in the use of vital statistics tabulations, but some of the more important ones should be mentioned.

Most of the factors limiting the use of data arise from imperfections in the original records or from the impracticability of tabulating these data in very detailed categories. These limitations should not be ignored, but their existence does not lessen the value of the data for most general purposes.

Completeness of registration

An estimated 99 percent of all births occurring in the United States in 1999 were registered; for white births registration was 99.4 percent complete and for all other births, 98.6 percent complete. These estimates are based on the results of the 1964-68 test of birth-registration completeness according to place of delivery (in or out of hospital) and race and on the 1999 proportions of births in these categories. The primary purpose of the test was to obtain current measures of registration completeness for births in and out of hospital by race on a national basis. Data for States were not available as they had been from the previous birth-registration tests in 1940 and 1950. A detailed discussion of the method and results of the 1964-68 birth-registration test is available (23). A more recent test has not been conducted.

The 1964-68 test has provided an opportunity to revise the estimates of birth-registration completeness for the years since the previous test in 1950 to reflect the improvement in registration. This has been done using registration completeness figures from the two tests by place of delivery and race. Estimates of registration completeness for four groups (based on place of delivery and race) for 1951-65 were computed by interpolation between the test results. (It was assumed that the data from the more recent test are for 1966, the midpoint of the test period.) The results of the 1964-68 test are assumed to prevail for 1966 and later years. These estimates were used with the proportions of births registered in these categories to obtain revised numbers of births adjusted for underregistration for each year. The overall percent of birth-registration completeness by race was then computed. Data adjusted for underregistration for 1951-59 have been revised to be consistent with the 1964-68 test results and differ slightly from data shown in annual reports for years before 1969. For these years the published number of births and birth rates for both racial groups have been revised slightly downward because the 1964-68 test indicated that previous adjustments to registered births were slightly inflated. Because registration completeness figures by age of mother and by live-birth order are not available from the 1964-68 test, it must be assumed that the relationships among these variables have not changed since 1950.

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*Discontinuation of adjustment for underregistration, 1960--*Adjustment for underregistration of births was discontinued in 1960 when birth registration for the United States was estimated to be 99.1 percent complete. This removed a bias introduced into age-specific rates when adjusted births classified by age were used. Age-specific rates are calculated by dividing the number of births to an age group of mothers by the population of women in that age group. Tests have shown that population figures are likely to be understated through census undercounts; these errors compensate for underregistration of births. Adjustment for underregistration of births, therefore, removes the compensating effect of under enumeration, biasing the age-specific rates more than when uncorrected birth and population data are used. (For further details see page 4-11 in the Technical Appendix of volume I, Vital Statistics of the United States, 1963.)

The age-specific rates used in the cohort fertility tables are an exception to the above statement. These rates are computed from births corrected for underregistration and population estimates adjusted for under enumeration and misstatement of age. Adjusted birth and population estimates are used for the cohort rates because they are an integral part of a series of rates, estimated with a consistent methodology. It was considered desirable to maintain consistency with respect to the cohort rates, even though it means that they will not be precisely comparable with other rates shown for 5-year age groups.

Completeness of reporting

Interpretation of these data must include evaluation of item completeness. The percent "not stated" is one measure of the quality of the data. Completeness of reporting varies among items and States. See table A for the percent of birth records on which specified items were not stated.

Quality control procedures

As electronic files are received at NCHS, they are automatically checked for completeness, individual item code validity, and unacceptable inconsistencies between data items. The registration area is notified of any problems. In addition, NCHS staff review the files on an ongoing basis to detect problems in overall quality such as inadequate reporting for certain items, failure to follow NCHS coding rules, and systems and software errors. Traditionally, quality assurance procedures were limited to review and analysis of differences between the NCHS and registration area code assignments for a small sample of records. In recent years, as electronic birth registration became prevalent, this procedure was augmented by analyses of year to year and area to area variations in the data. These analyses are based on preliminary tabulations of the data that are cumulated by state on a year to date basis each month. All differences that are judged to have consequences for quality and completeness are investigated by NCHS. In the review process, statistical tests are used to call initial attention to differences for possible follow-up. As necessary, registration areas are informed of differences encountered in the tables and asked to verify the counts or to determine the nature of the differences. Missing records (except those permanently voided) and other problems detected by NCHS are resolved and corrections transmitted to NCHS in the same manner as for those corrections identified by the registration area.

Random variation and significance testing for natality data

The number of births reported for an area is essentially a complete count, since more than 99 percent of all births are registered. While this number is not subject to sampling error, it may be affected by nonsampling errors such as mistakes in recording the mother's residence or age during the registration process.

When the number of births is used for analytic purposes the number of events that actually occurred can be thought of as one in a large series of possible results that could have occurred under the same circumstances. When considered in this way, the number of births is subject to random variation. The probable range of values may be estimated from the actual figures according to certain statistical assumptions.

The **confidence interval** (CI) is the range of values for the number of births, birth rates, or percent of births that you could expect in 95 out of 100 cases. The **confidence limits** are the end points of this range of values (the highest and lowest values). Confidence limits tell you how much the number of events or rates could vary under

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similar circumstances.

Confidence limits for numbers, rates, and percents can be estimated from the actual number of events. Procedures differ for rates and percents and also differ depending on the number of births on which these statistics are based. Below are detailed procedures and examples for each type of case.

95 percent Confidence Interval: 100 or more births

When the number of events is greater than 100, the data are assumed to be approximately normally distributed. Formulas for 95-percent confidence limits are:

$$\text{Lower limit} = B - (1.96 \times \sqrt{B})$$

$$\text{Upper limit} = B + (1.96 \times \sqrt{B})$$

where:

B = the number of births

Example

Suppose the number of first births to white women 40-44 years of age was 14,108. The 95-percent confidence limits for this number would be:

$$\begin{aligned} \text{Lower limit} &= 14,108 - [1.96 \times \sqrt{14,108}] \\ &= 14,108 - 233 \\ &= 13,875 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= 14,108 + [1.96 \times \sqrt{14,108}] \\ &= 14,108 + 233 \\ &= 14,341 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual number of first births to white women 40-44 years of age would lie between 13,875 and 14,341.

95 percent Confidence Interval: 1-99 births

When the number of births is less than 100 and the rate is small, the data are assumed to follow a Poisson probability distribution. Confidence limits are estimated using the following formulas:

$$\text{Lower limit} = B \times L$$

$$\text{Upper limit} = B \times U$$

where:

B = the number of births

L = the value in Table C that corresponds to the number B , using the 95 percent CI column

U = the value in Table C that corresponds to the number B , using the 95 percent CI column

Example

Suppose the number of first births to American Indian women 40-44 years of age was 47. The confidence limits for this number would be:

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$$\begin{aligned}\text{Lower limit} &= B \times L \\ &= 47 \times 0.73476 \\ &= 35\end{aligned}$$

$$\begin{aligned}\text{Upper limit} &= B \times U \\ &= 47 \times 1.32979 \\ &= 63\end{aligned}$$

This means that the chances are 95 out of 100 that the actual number of first births to American Indian women 40-44 years of age would lie between 35 and 63.

Computing confidence intervals for rates

The same statistical assumptions can be used to estimate the variability in birth rates. Again, one formula is used for rates based on numbers of events less than 100, and another formula for rates based on numbers of 100 or greater. For our purposes, assume that the denominators of these rates (the population estimates) have no error. While this assumption is technically correct only for denominators based on the census which occurs every 10 years, the error in intercensal population estimates is usually small, difficult to measure, and therefore not considered.

95 percent Confidence Interval: 100 or more births

In this case, use the following formula for the birth rate R based on the number of births B:

$$\begin{aligned}\text{Lower limit} &= R - [1.96 \times R / \sqrt{B}] \\ \text{Upper limit} &= R + [1.96 \times R / \sqrt{B}]\end{aligned}$$

where:

$$\begin{aligned}R &= \text{rate (births per 1,000 population)} \\ B &= \text{the number of births}\end{aligned}$$

Example

Suppose the first birth rate for white women 40-44 years of age was 1.55 per thousand, based on 14,108 births in the numerator. Therefore, the 95-percent confidence interval would be:

$$\begin{aligned}\text{Lower limit} &= 1.55 - [1.96 \times (1.55 / \sqrt{14,108})] \\ &= 1.55 - .026 \\ &= 1.52\end{aligned}$$

$$\begin{aligned}\text{Upper limit} &= 1.55 + [1.96 \times (1.55 / \sqrt{14,108})] \\ &= 1.55 + .026 \\ &= 1.58\end{aligned}$$

This means that the chances are 95 out of 100 that the actual first birth rate for white women 40-44 years of age lies between 1.52 and 1.58.

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95 percent Confidence Interval: 1-99 births

When the number of events in the numerator is less than 20, an asterisk is shown in place of the rate because there were too few births to compute a statistically reliable rate. When the number of events in the numerator is greater than 20 but less than 100, the confidence interval for a rate can be estimated using the two formulas which follow and the values in the 95 percent CI column of Table C.

$$\begin{aligned} \text{Lower limit} &= R \times L \\ \text{Upper limit} &= R \times U \end{aligned}$$

where:

- R = rate (births per 1,000 population)
- L = the value in Table C that corresponds to the number B in the numerator of the rate
- U = the value in Table C that corresponds to the number B in the numerator of the rate

Example

Suppose that the first birth rate for American Indian women 40-44 years of age was 0.54 per thousand, based on 47 births in the numerator. Using Table C:

$$\begin{aligned} \text{Lower limit} &= 0.54 \times 0.73476 = .40 \\ \text{Upper limit} &= 0.54 \times 1.32979 = .72 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual first birth rate for American Indian women 40-44 year of age lies between .40 and .72.

Computing confidence intervals for Hispanic subgroups

Tables 6, 8, 9, and 14 in "Births: Final Data for 1999" and tables 1-4 and 1-12 in Vital Statistics of the United States, part I Natality show birth and fertility rates for Mexicans, Puerto Ricans, Cubans, and "Other" Hispanics. Population estimates are derived from the U.S. Bureau of the Census' Current Population Survey and adjusted to resident population control totals. As a result, the rates are subject to the variability of the denominator as well as the numerator. For these Hispanic subgroups only (not for all origin, total Hispanic, total non-Hispanic, non-Hispanic white, or non-Hispanic black populations), the formulas above would be substituted by the following formulas:

Approximate 95 percent Confidence Interval: 100 or more births

When the number of events in the numerator is greater than 100, the confidence interval for the birth rate can be estimated from the following formulas:

For crude and age-specific birth rates,

$$\begin{aligned} \text{Lower limit:} & R \pm 1.96 \left(R \left(\sqrt{\left(\frac{1}{B}\right) \% f \left(a \% \frac{b}{P}\right)} \right) \right) \\ \text{Upper limit:} & R \pm 1.96 \left(R \left(\sqrt{\left(\frac{1}{B}\right) \% f \left(a \% \frac{b}{P}\right)} \right) \right) \end{aligned}$$

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where

R = rate (births per 1,000 population).

B = total number of births upon which rate is based

f = factor that depends on whether the population estimate is based on demographic analysis or CPS and the number of years used, equals 0.670 for single year.

a and b are single year averages of the 1998 and 1999 CPS standard error parameters; a equals -0.000238 and b equals 7,486 (24,25).

P = total estimated population upon which rate is based

Example

Suppose that the fertility rate of Cuban American women 15-44 years of age was 51.2 per thousand based on 13,088 births in the numerator and an estimated resident population of 255,399 in the denominator. The 95 percent confidence interval would be:

$$\begin{aligned} \text{Lower limit} &= 51.2 - 1.96 * 51.2 * \sqrt{\frac{1}{13,088} + 0.670 * 0.000238 + \frac{7,486}{255,399}} \\ &= 51.2 - 1.96 * 51.2 * \sqrt{0.000076405 + (0.670 * 0.029073)} \\ &= 51.2 - 1.96 * 51.2 * \sqrt{0.019555} \\ &= 51.2 - 1.96 * 51.2 * 0.13984 \\ &= 37.17 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= 51.2 + 1.96 * 51.2 * \sqrt{\frac{1}{13,088} + 0.670 * 0.000238 + \frac{7,486}{255,399}} \\ &= 51.2 + 1.96 * 51.2 * \sqrt{0.000076405 + (0.670 * 0.029073)} \\ &= 51.2 + 1.96 * 51.2 * \sqrt{0.019555} \\ &= 51.2 + 1.96 * 51.2 * 0.13984 \\ &= 65.23 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual fertility rate of Cuban American women 15-44 years of age lies between 37.17 and 65.23.

Approximate 95 percent Confidence Interval: 1-99 births

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When the number of events in the numerator is less than 20, an asterisk is shown in place of the rate. When the number of events in the numerator is greater than 20 but less than 100, the confidence interval for the birth rate can be estimated using the formulas which follow and the values in Table C.

For crude and age-specific birth rates,

$$\text{Lower: } R (L (1 \& \acute{a}' .96, B) (\left(1 \& 2.576 \sqrt{ f \left(a \% \frac{b}{P} \right) } \right))$$

$$\text{Upper: } R (U (1 \& \acute{a}' .96, B) (\left(1 \& 2.576 \sqrt{ f \left(a \% \frac{b}{P} \right) } \right))$$

where

R = rate (births per 1,000 population).

B = total number of births upon which rate is based.

L = the value in Table C that corresponds to the number *B*, using the 96 percent CI column

U = the value in Table C that corresponds to the number *B*, using the 96 percent CI column

f = factor that depends on whether the population estimate is based on demographic analysis or CPS and the number of years used, equals 0.670 for single year.

a and *b* factors are CPS standard error parameters. (see previous section on 95 percent confidence interval for 100 or more births for description and specific values)

P = total estimated population upon which rate is based.

Example

Suppose that the birth rate of Puerto Rican American women 45-49 years of age was 0.4 per thousand, based on 35 births in the numerator and an estimated resident population of 87,892 in the denominator. Using Table C, the 95 percent confidence interval would be:

$$\begin{aligned} \text{Lower limit} &= 0.4 * 0.68419 * \left(1 - 2.576 \sqrt{0.670 * 0.000238 + \frac{7,486}{87,892}} \right) \\ &= 0.4 * 0.68419 * (1 - 2.576 * .056906) \\ &= 0.4 * 0.68419 * (1 - 2.576 * 0.23855) \\ &= 0.4 * 0.68419 * 0.38549 \\ &= 0.1 \end{aligned}$$

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$$\begin{aligned} \text{Upper limit} &= 0.4 * 1.41047 * \left(1 + 2.576 \sqrt{0.670 * 0.000238 + \frac{7,486}{87,892}} \right) \\ &= 0.4 * 1.41047 * (1 + 2.576 * 0.056906) \\ &= 0.4 * 1.41047 * (1 + 2.576 * 0.23855) \\ &= 0.4 * 1.41047 * 1.61451 \\ &= 0.9 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual birth rate of Puerto Rican American women 45-49 years of age lies between 0.1 and 0.9.

Note: In the formulas above, the confidence limits are estimated from the nonsampling error in the number of births, the numerator, and the sampling error in the population estimate, the denominator. A 96 percent standard error is computed for the numerator and a 99 percent standard error is computed for the denominator in order to compute a 95 percent confidence interval for the rate.

Computing 95 percent Confidence Intervals for percents

In many instances we need to compute the confidence intervals for percents. Percents derive from a binomial distribution. As with birth rates, an asterisk will be shown for any percent which is based on fewer than 20 births in the numerator. We easily compute a 95-percent confidence interval for a percent when the following conditions are met:

$$\begin{aligned} B * p &\geq 5 \quad \text{and} \\ B * q &\geq 5 \end{aligned}$$

where:

$$\begin{aligned} B &= \text{number of births in the denominator} \\ p &= \text{percent divided by 100} \\ q &= 1 - p \end{aligned}$$

For natality data, these conditions will be met except for very rare events in small subgroups. If the conditions are *not* met, the variation in the percent will be so large as to render the confidence intervals meaningless. When these conditions are met the 95-percent confidence interval can be computed using the normal approximation of the binomial. The 95-percent confidence intervals are computed by the following formulas:

$$\text{Lower limit} = p - 1.96 * \sqrt{p * \frac{q}{B}}$$

$$\text{Upper limit} = p + 1.96 * \sqrt{p * \frac{q}{B}}$$

where:

$$\begin{aligned} B &= \text{number of births in the denominator} \\ p &= \text{percent divided by 100} \end{aligned}$$

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$$q = 1 - p$$

Example

Suppose the percent of births to Hispanic women in Alabama that were to unmarried women was 23.0 percent. This was based on 310 births in the numerator and 1,345 births in the denominator. First we test to make sure we can use the normal approximation of the binomial:

$$\begin{aligned} 1,345 \times .230 &= 309 \\ 1,345 \times (1 - .230) & \\ 1,345 \times .770 &= 1,036 \end{aligned}$$

Both 309 and 1,036 are greater than 5 so we can proceed. The 95-percent confidence interval would be:

$$\begin{aligned} \text{Lower limit} &= 0.23 - 1.96 * \sqrt{0.23 * \frac{0.77}{1,345}} \\ &= 0.23 - 0.022 \\ &= 0.208 \text{ or } 20.8 \text{ percent} \\ \text{Upper limit} &= 0.23 + 1.96 * \sqrt{0.23 * \frac{0.77}{1,345}} \\ &= 0.23 + 0.022 \\ &= 0.252 \text{ or } 25.2 \text{ percent} \end{aligned}$$

This means that the chances are 95 out of 100 that the actual percent of births in Alabama to Hispanic women that are to unmarried women lies between 20.8 and 25.2 percent.

Significance testing

Both rates are based on 100 or more events

When both rates are based on 100 or more events, the difference between the two rates is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two rates.

$$1.96 \sqrt{\frac{R_1^2}{N_1} + \frac{R_2^2}{N_2}}$$

where:

- R₁ = the first rate
- R₂ = the second rate

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N_1 = the first number of births
 N_2 = the second number of births

If the difference is **greater** than this statistic, then the difference would occur by chance less than 5 times out of 100. If the difference is **less** than this statistic, the difference might occur by chance more than 5 times out of 100. We say that the difference is not statistically significant at the 95-percent confidence level.

Example

Is the first birth rate for black women 40-44 years of age (1.08 per 1,000) significantly lower than the comparable rate for white women (1.55)? Both rates are based on more than 100 births (1,535 for black women and 14,108 for white women). The difference between the rates is $1.55 - 1.08 = .47$. The statistic is then calculated as follows:

$$\begin{aligned}
 & 1.96 \sqrt{\frac{1.08^2}{1,535} + \frac{1.55^2}{14,108}} \\
 &= 1.96 \times \sqrt{.00076 + .00017} \\
 &= 1.96 \times \sqrt{.00093} \\
 &= 1.96 \times .03 \\
 &= .06
 \end{aligned}$$

The difference between the rates (.47) is greater than this statistic (.06). Therefore, the difference is statistically significant at the 95-percent confidence level.

Significance Testing for Hispanic Subgroups

Tables 6, 8, 9, and 14 in “Births: Final Data for 1999” and tables 1-4 and 1-12 in “Vital Statistics United States, volume 1 natality” showing birth and fertility rates based on population estimates derived from the U.S. Bureau of the Census’ Current Population Survey and adjusted to resident population control totals, the formula above would be substituted by the formula which follows.

When both rates are based on 100 or more events, the difference between the two rates is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two rates.

$$1.96 * \sqrt{R_1^2 * \frac{1}{B_1} + \frac{a}{P_1} + R_2^2 * \frac{1}{B_2} + \frac{a}{P_2}}$$

If the difference is greater than this statistic, then the difference would occur by chance less than 5 times out of 100. If the difference is less than this statistic, the difference might occur by chance more than 5 times out of 100. We say that the difference is not statistically significant at the 95-percent confidence level.

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Example

Suppose the birth rate for Puerto Rican mothers 15-19 years of age (R_1) is 80.6, based on 11,978 births and an estimated population of 148,673, and the birth rate for Cuban mothers 15-19 years of age (R_2) is 27.1, based on 997 births and an estimated population of 36,782. Using the above formula, the z score is computed as follows:

$$1.96 * \sqrt{80.6^2 * \frac{1}{11,978} + 0.670 * 0.000238 + \frac{7,486}{148,673} + 27.1^2 * \frac{1}{997} + 0.670 * 0.000238 + \frac{7,486}{36,782}}$$

$$1.96 * \sqrt{6,496.36 * [0.000083486 + 0.670(0.000238 + 0.050352)] + 734.41 * [0.0010030 + 0.670(0.000238 + 0.20352)]}$$

$$1.96 * \sqrt{(6,496.36 * 0.033660) + (734.41 * 0.13720)}$$

$$1.96 * \sqrt{218.67 + 100.76}$$

$$1.96 * 17.87$$

$$= 35.03$$

Since the difference between the two rates of 53.5 is greater than the value above, the two rates are statistically significant at the 0.05 level of significance.

One of the rates is based on fewer than 100 cases

To compare two rates, when one or both of those rates are based on less than 100 cases, you first compute the confidence intervals for both rates. Then you check to see if those intervals overlap. If they **do** overlap, the difference is not statistically significant at the 95-percent level. If they **do not** overlap, the difference is indeed “statistically significant.”

Example

Is the first birth rate for American Indian women 40-44 years of age (.54 per 1,000) significantly lower than the comparable rate for white women (1.55)? The rate for American Indian women is based on 47 events whereas the rate for white women is based on 14,108 events. The rate for American Indian women is based on less than 100 events; therefore, the first step is to compute the confidence intervals for both rates.

	Lower Limit	Upper Limit
American Indian women	0.40	0.72
White women	1.52	1.58

These two confidence intervals do not overlap. Therefore, the first birth rate for American women 40-44 is significantly lower (at the 95-percent confidence level) than the comparable rate for white women.

Testing differences between two percents

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When testing the difference between two percents, both percents must meet the following conditions:

$$B \times p \geq \$5 \quad \text{and}$$

$$B \times q \geq \$5$$

where:

$$B = \text{number of births in the denominator}$$

$$p = \text{percent divided by 100}$$

$$q = 1 - p$$

When both percents meet these conditions then the difference between the two percents is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two percents.

$$1.96 \sqrt{p(1-p) \left(\frac{1}{B_1} + \frac{1}{B_2} \right)}$$

$$p_1 - p_2 - \frac{B_1 p_1 + B_2 p_2}{B_1 B_2}$$

where:

$$B_1 = \text{the number of births in the denominator for the first percent}$$

$$B_2 = \text{the number of births in the denominator for the second percent}$$

$$p_1 = \text{the first percent divided by 100}$$

$$p_2 = \text{the second percent divided by 100}$$

Example

Is the percent of births to Hispanic women that were to unmarried women higher in Alaska (28.8 percent) than in Alabama (23.0). The number in the denominator was 593 in Alaska and 1,345 in Alabama. The necessary conditions are met for both percents (calculations not shown). The difference between the two percents is .288 - .230 = .058. The statistic is then calculated as follows:

$$1.96 \sqrt{(.2477) (.7523) (.0024)}$$

$$= 1.96 \times .000447$$

$$= 1.96 \times .021$$

$$= .042$$

The difference between the percents (.058) is greater than this statistic (.042). Therefore, the difference is

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statistically significant at the 95-percent confidence level.

Computation of rates and other measures

Population bases

The rates shown in this report were computed on the basis of population statistics prepared by the U.S. Bureau of the Census. Rates for 1940, 1950, 1960, 1970, 1980, and 1990 are based on the population enumerated as of April 1 in the censuses of those years. Rates for all other years are based on the estimated midyear (July 1) population for the respective years. Birth rates for the United States, individual States, and metropolitan areas are based on the total resident populations of the respective areas. Except as noted these populations exclude the Armed Forces abroad but include the Armed Forces stationed in each area. The resident population of the birth- and death-registration States for 1900-32 and for the United States for 1900-99 is shown in table 4-1. In addition, the population including Armed Forces abroad is shown for the United States. Table D shows the sources for these populations.

In both the 1980 and 1990 censuses, a substantial number of persons did not specify a racial group that could be classified as any of the White, Black, American Indian, Eskimo, Aleut, Asian, or Pacific Islander categories on the census form (26). In 1980 the number of persons of "other" race was 6,758,319; in 1990 it was 9,804,847. In both censuses, the large majority of these persons were of Hispanic origin (based on response to a separate question on the form), and many wrote in their Hispanic origin, or Hispanic origin type (for example, Mexican, Puerto Rican) as their race. In both 1980 and 1990, persons of unspecified race were allocated to one of the four tabulated racial groups (white, black, American Indian, Asian or Pacific Islander), based on their response to the Hispanic origin question. These four race categories conform with the 1979 edition of OMB Directive 15 which mandates that race data must contain at least these 4 categories. These categories are also more consistent with the race categories in vital statistics.

In the allocation of unspecified race was carried out using cross-tabulations of age, sex, race, type of Hispanic origin, and county of residence. Persons of Hispanic origin and unspecified race were allocated to either white or black, based on their Hispanic origin type. Persons of "other" race and Mexican origin were categorically assumed to be white, while persons in other Hispanic categories were distributed to white and black *pro rata* within the county-age-sex group. For "other-not-specified" persons who were not Hispanic, race was allocated to white, black, or Asian and Pacific Islander, based on proportions gleaned from sample data. The 20-percent sample (respondents who were enumerated on the longer census form) provided a highly detailed coding of race, which allowed identification of otherwise unidentifiable responses with a specified race category. Allocation proportions were thus established at the State level, which were used to distribute the non-Hispanic persons of "other" race in the 100-percent tabulations.

In 1990 the race modification procedure was carried out using individual census records. Persons whose race could not be specified were assigned to a racial category using a pool of "race donors," which was derived from persons of specified race and the identical response to the Hispanic origin question within the auspices of the same Census District Office. As in 1980, the underlying assumption was that the Hispanic origin response was the major criterion for allocating race. Unlike 1980, persons of Hispanic origin, including Mexican, could be assigned to any racial group, rather than white or black only, and the non-Hispanic component of "other" race was allocated primarily on the basis of geography (District Office), rather than detailed characteristic.

The means by which respondent's age was determined were fundamentally different in the two censuses; therefore, the problems that necessitated the modification were different. In 1980 respondents reported year of

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birth and quarter of birth (within year) on the census form. When census results were tabulated, persons born in the first quarter of the year (before April 1) had age equal to 1980 minus year of birth, while persons born in the last 3 quarters had age equal to 1979 minus year of birth.

In 1990 the quarter year of birth was not reported on the census form, so that direct determination of age from year of birth was impossible. In 1990 census publications age is based on respondents' direct reports of age at last birthday. This definition proved inadequate for postcensal estimates, because it was apparent that many respondents had reported their age at time of either completion of the census form or interview by an enumerator, which could occur several months after the April 1 reference data. As a result, age was biased upward. Modification was based on a respecification of age, for most individual respondents, by year of birth, with allocation to first quarter (persons aged 1990 minus year of birth) and last three quarters (aged 1989 minus year of birth) based on a historical series of registered births by month. This process partially restored the 1980 logic for assignment of age. It was not considered necessary to correct for age overstatement and heaping in 1990, because the availability of age and year of birth on the census form provided elimination of spurious year-of-birth reports in the census data before modification occurred.

Populations for 1999--The population of the United States by age, sex, race, and Hispanic origin is shown in the Census Bureau report United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1999. Washington, DC: U.S. Census Bureau. Internet release, April 11, 2000.
http://www.census.gov/population/estimates/nat_90s_1.html.

Populations for 1998--The population of the United States by age, sex, race, and Hispanic origin is shown in the Census Bureau report United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1998. Washington, DC: U.S. Bureau of the Census. Internet release, June 4, 1999.
<Http://www.census.gov/population/www/estimates/uspop.html>.

Populations for 1997--The population of the United States by age, sex, race, and Hispanic origin is shown in the Census Bureau report United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1997. PPL-91R. U.S. Bureau of the Census. Rounded populations are consistent with U.S. Bureau of the Census file NESTV97. Washington: U.S. Department of Commerce. 1998.

Populations for 1996--The population of the United States by age, sex, race, and Hispanic origin is shown in the Census Bureau report, United States population estimates by age, sex, race and Hispanic origin: 1990 to 1996. U.S. Bureau of the Census. PPL-57. Washington: U.S. Department of Commerce. 1997.

Populations for 1995--The population of the United States by age, sex, race, and Hispanic origin is shown in the Census Bureau report, United States population estimates by age, sex, race and Hispanic origin: 1990 to 1995. U.S. Bureau of the Census. Census file RESDO795, PPL-41. Washington: U.S. Department of Commerce. 1996.

Populations for 1994--The population of the United States by age, sex, race, and Hispanic origin is shown in the Census Bureau report, United States population estimates by age, sex, race and Hispanic origin: 1990 to 1994. U.S. Bureau of the Census. PPL-21. Washington: U.S. Department of Commerce. 1995.

Populations for 1993--The population of the United States by age, sex, race and Hispanic origin is tabulated from Census file RESO793.

Populations for 1992--The population of the United States by age, sex, race and Hispanic origin is tabulated from census file RESPO792.

Populations for 1991--The population of the United States by age, race, and sex is shown in *Current Population Reports*, Series P-25, Number 1095. Monthly population figures were published in *Current Population Reports*, Series P-25, Number 1097.

Populations for 1990--The population of the United States by age, race, and sex, and the population for each State is shown in *Current Population Reports*, Series P-25, Number 1095. The figures have been modified as described above. Monthly population figures were published in *Current Population Reports*, Series P-25, Number 1094.

Population estimates for 1981-89--Birth rates for 1981-89 (except those for cohorts of women) have been revised, based on revised population estimates that are consistent with the 1990 census levels, and thus may differ

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from rates published in volumes of *Vital Statistics of the United States* for these years. The 1990 census counted approximately 1.5 million fewer persons than had earlier been estimated for April 1, 1990. The revised estimates for the United States by age, race, and sex were published by the U.S. Bureau of the Census in *Current Population Reports*, Series P-25, Number 1095. Population estimates by month are based on data published in *Current Population Reports*, Series P-25, Number 1094 and unpublished data. Unpublished revised estimates for States were obtained from the U.S. Bureau of the Census.

Populations for 1980--The population of the United States by age, race, and sex, and the population for each State are shown in tables 4-2 and 4-3 of volume I, *Vital Statistics of the United States*, 1980. The figures by race have been modified as described above. Monthly population figures were published in *Current Population Reports*, Series P-25, Number 899.

Population estimates for 1971-79--Birth rates for 1971-79 (except those for cohorts of women) have been revised, based on revised population estimates that are consistent with the 1980 census levels, and thus may differ from rates published in volumes of *Vital Statistics of the United States* for these years. The 1980 census counted approximately 5.5 million more persons than had earlier been estimated for April 1, 1980 (27). The revised estimates for the United States by age, race, and sex were published by the U.S. Bureau of the Census in *Current Population Reports*, Series P-25, Number 917. Population estimates by month are based on data published in *Current Population Reports*, Series P-25, Number 899. Unpublished revised estimates for States were obtained from the U.S. Bureau of the Census.

Population estimates for 1961-69--Birth rates for 1961-69 are based on revised estimates of the population and thus may differ slightly from rates published before 1976. The revised estimates used in computing these rates were published in *Current Population Reports*, Series P-25, Number 519. The rates for 1961-64 are based on revised estimates of the population published in *Current Population Reports*, Series P-25, Numbers 321 and 324 and may differ slightly from rates published in those years.

Population estimates for 1951-59--Final intercensal estimates of the population by age, race, and sex and total population by State for 1951-59 are shown in tables 4-4 and 4-5 of volume I, *Vital Statistics of the United States*, 1966. Beginning with 1963 these final estimates have been used to compute birth rates for 1951-59 in all issues of *Vital Statistics of the United States*.

Net census undercounts and overcounts

The U.S. Bureau of the Census has conducted extensive research to evaluate the coverage of the U.S. population (including undercount, overcount, and misstatement of age, race, and sex) in the last five decennial censuses 1950, 1960, 1970, 1980, and 1990. These studies provide estimates of the national population, that were not enumerated or over enumerated in the respective censuses, by age, race, and sex (27-29). The report for 1990 (30) includes estimates of net under enumeration and over enumeration for age, sex, and racial subgroups of the national population, modified for race consistency with previous population counts as described in the section "Population bases."

These studies indicate that there are differential coverages in the censuses among the population subgroups; that is, some age, race, and sex groups are more completely enumerated than others. To the extent that these estimates of overcounts or undercounts are valid, that they are substantial, and that they vary among subgroups and geographic areas, census miscounts can have consequences for vital statistics measures (28). However, the effects of undercounts in the census are reduced to the extent that there is underregistration of births. If these two factors are of equal magnitude, rates based on unadjusted populations are more accurate than those based on adjusted populations because the births have not been adjusted for underregistration.

The impact of net census miscounts on vital statistics measures includes the effects on levels of the rates and effects on differentials among groups.

If adjustments were made for persons who were not counted in the census of population, the size of the denominators would generally increase and the rates would be smaller than without an adjustment. Adjusted rates for 1990 can be computed by multiplying the reported rates by ratios of the 1990 census-level population adjusted

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for the estimated net census miscounts, which are shown in table E. A ratio of less than 1.0 indicates a net census undercount and would result in a corresponding decrease in the rate. A ratio in excess of 1.0 indicates a net census overcount and would result in a corresponding increase in the rate.

Enumeration of white females in the childbearing ages was at least 97 percent complete for all ages. Among black women, the undercount ranged up to 5 percent. Generally, females in the childbearing ages were more completely enumerated than males for similar race-age groups.

If vital statistics measures were calculated with adjustments for net census miscounts for each of these subgroups, the resulting rates would have been differentially changed from their original levels; that is, rates for those groups with the greatest estimated overcounts or undercounts would show the greatest relative changes due to these adjustments. Thus the racial differential in fertility between the white and the "All other" population can be affected by such adjustments.

Cohort fertility tables

The various fertility measures shown for cohorts of women are computed from births adjusted for underregistration and population estimates corrected for under enumeration and misstatement of age. Data published after 1974 use revised population estimates prepared by the U.S. Bureau of the Census and have been expanded to include data for the two major racial groups. Heuser has prepared a detailed description of the methods used in deriving these measures as well as more detailed data for earlier years (31). These tables for current years are available at <http://www.cdc.gov/nchs/datawh/statab/unpubd/natalty/natab97.htm>.

Parity distribution--The percent distribution of women by parity (number of children ever born alive to mother) is derived from cumulative birth rates by order of birth. The percent of zero-parity women is found by subtracting the cumulative first birth rate from 1,000 and dividing by 10. The proportions of women at parities one through six are found from the following formula:

$$\text{Percent at N parity} = (\text{cum. rate, order N}) - (\text{cum. rate, order N} + 1) / 10$$

The percent of women at seventh and higher parities is found by dividing the cumulative rate for seventh-order births by 10.

Birth probabilities--birth probabilities indicate the likelihood that a woman of a certain parity and age at the beginning of the year will have a child during the year. Birth probabilities differ from central birth rates in that the denominator for birth probabilities is specific for parity as well as for age.

Total fertility rate

The total fertility rate is the sum of the birth rates by age of mother (in 5-year age groups) multiplied by 5. It is an age-adjusted rate because it is based on the assumption that there are the same number of women in each age group. The rate of 2,075.0 in 1999, for example, means that if a hypothetical group of 1,000 women were to have the same birth rates in each age group that were observed in the actual childbearing population in 1999, they would have a total of 2,075.0 children by the time they reached the end of the reproductive period (taken here to be age 55 years), assuming that all of the women survived to that age.

Seasonal adjustment of rates

The seasonally adjusted birth and fertility rates are computed from the X-11 variant of Census Method II (32). This method of seasonal adjustment used since 1964 differs slightly from the U.S. Bureau of Labor Statistics (BLS) Seasonal Factor Method, which was used for Vital Statistics of the United States, 1964. The fundamental technique is the same in that it is an adaptation of the ratio-to-moving-average method. Before 1964 the method of seasonal adjustment was based on the X-9 variant and other variants of Census Method II. A comparison of the Census Method II with the BLS Seasonal Factor Method shows the differences in the seasonal patterns of births to be

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negligible.

Computations of percents, percent distributions, and medians

Births for which a particular characteristic is unknown were subtracted from the figures for total births that were used as denominators before percents, percent distributions, and medians were computed. The percent of records with missing information for each item is shown by State in table A. The median number of prenatal visits also excludes births to mothers who had no prenatal care. Computations of the median years of school completed and the median number of prenatal visits were based on ungrouped data. The median age of mother is computed from birth rates in 5-year age groups which eliminates the effects of changes in the age composition of the childbearing population over time. The procedures for distributing not stated age of father in order to compute mean ages are described in the section "age of father." An asterisk is shown in place of any derived statistic based on fewer than 20 births in the numerator or denominator.

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References

1. National Center for Health Statistics. natality public use tape and CD-ROM. Hyattsville, Maryland: National Center for Health Statistics. Annual products.
2. Ventura SJ, Martin JA, Curtin SA, Menacker F, Hamilton BE. Births: Final data for 1999. National vital statistics reports; vol 49 no 1. Hyattsville, Maryland: National Center for Health Statistics. 2001.
3. Department of Health and Human Services. Model State Vital Statistics Act and Regulations, 1992 Revision. Publication no. (PHS). 94-1115.
4. World Health Organization. Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death, based on the recommendations of the Tenth Revision Conference, 1987. Geneva: World Health Organization. 1992.
5. American College of Obstetricians and Gynecologists. Guidelines for Perinatal Care, ed. 2, Washington, DC. 308-324. 1988.
6. Kowaleski J. State definitions and reporting requirements for live births, fetal deaths, and induced terminations of pregnancy (1997 revision). Hyattsville, Maryland: National Center for Health Statistics. 1997.
7. Statistical Office of the United Nations. Handbook of vital statistics systems and methods/Department of International Economic and Social Affairs. Studies in methods. Series F, no. 35, ST/ESA/STAT/SER.F35. New York: United Nations. 1985.
8. National Office of Vital Statistics. Births and birth rates in the entire United States, 1909 to 1948. Vital Statistics--Special reports; vol 33 no 8. Washington: Public Health Service. 1950.
9. Division of Vital Statistics. Instruction manual part 3a: Classification and coding instructions for birth records, 1999. Hyattsville, Maryland: National Center for Health Statistics.
<http://www.cdc.gov/nchs/data/3amanual/pdf>.
10. U.S. Bureau of the Census. Population of metropolitan areas and component geography: 1990 and 1980 (6-30-90 definitions). 1990 CPH-L-10. Washington: U.S. Department of Commerce. 1991.
11. U.S. Department of Commerce. Metropolitan statistical area classification. Federal Register; vol 45 no 2. Washington: U.S. Government Printing Office, 956-62. 1980.
12. U.S. Office of Management and Budget. Standard metropolitan statistical areas. Rev. ed. Washington: U.S. Government Printing Office, 89-90. 1975.
13. U.S. Bureau of the Census. 1990 Census of Population. General population characteristics; (1990 CP-1-1). Washington: U.S. Department of Commerce. 1992.
14. Martin JA. Birth characteristics for Asian or Pacific Islander subgroups, 1992. Monthly vital statistics report; vol 43 no 10, suppl. Hyattsville, Maryland: National Center for Health Statistics. 1995.
15. Schachter J. Matched record comparison of birth certificate and census information in the United States, 1950. Vital statistics--Special Reports; vol 47 no12. Washington: Public Health Service. 1962.
16. Schoendorf KC, Parker JD, Batkhan LZ, Kiely JL. Comparability of the birth certificate and 1988 maternal and infant health survey. Vital and health statistics reports; series 2 no 116. Hyattsville, Maryland: National Center for Health Statistics. 1993.
17. Ventura SJ, Bachrach CA. Nonmarital Childbearing in the United States, 1940-99. National vital statistics reports; vol 48 no 16. Hyattsville, Maryland: National Center for Health Statistics. 2000.
18. Berkov B. An evaluation of California's inferred birth statistics for unmarried women. National Center for Health Statistics. Vital Health Stat 2(97). 1985.
19. Ventura SJ. Births to unmarried mothers, United States, 1980-92. National Center for Health Statistics. Vital Health Stat 21(53). 1995.
20. Taffel S, Johnson D, Heuser R. A method for imputing length of gestation on birth certificates. National Center for Health Statistics. Vital Health Stat 2(93). 1982.
21. Brockert JE, Stockbauer JW, Senner JW, et al. Recommended standard medical definitions for the U.S. Standard Certificate of Live Birth, 1989 revision. Paper presented at annual meeting of the Association for the

VITAL STATISTICS OF THE UNITED STATES: NATALITY, 1999
TECHNICAL APPENDIX

- Vital Record and Health Statistics. June 1990.
22. Watkins ML, Edmonds L, McClearn A, et al. The surveillance of birth defects: The usefulness of the revised U.S. standard birth certificate. *Am J Public Health* 86(5):731-34. 1996.
 23. U.S. Bureau of the Census. Test of birth-registration completeness, 1964 to 1968. 1970 census of population and housing; PHC (E)-2. Evaluation and Research Program. Washington: U.S. Department of Commerce. 1973.
 24. U.S. Bureau of the Census. Money income in the United States: 1998 (with separate data on valuation of noncash benefits). Current population reports, consumer income. Series P60-206. Washington: U.S. Government Printing Office. 1999.
 25. U.S. Bureau of the Census. Money income in the United States: 1999 (with separate data on valuation of noncash benefits). Current population reports, consumer income. Series P60-209. Washington: U.S. Government Printing Office. 2000.
 26. U.S. Bureau of the Census. U.S. population estimates, by age, sex, race, and Hispanic origin, 1980-91. Current population reports; series P-25, no 1095. Washington: U.S. Department of Commerce. 1993.
 27. U.S. Bureau of the Census. Coverage of the national population in the 1980 census by age, sex, and race. Preliminary estimates by demographic analysis. Current population reports; series P-23, no 115. Washington: U.S. Department of Commerce. 1982.
 28. U.S. Bureau of the Census. Estimates of coverage of the population by sex, race, and age--Demographic analysis. 1970 census of population and housing; PHC (E)-4. Evaluation and Research Program. Washington: U.S. Department of Commerce. 1974.
 29. U.S. Bureau of the Census. Developmental estimates of the coverage of the population of States in the 1970 census-demographic analysis. Current population reports; series P-23, no 65. Washington: U.S. Department of Commerce. 1977.
 30. Robinson JG, Ahmed B, Das Gupta P, et al. Estimation of population coverage in the 1990 United States census based on demographic analysis. *JASA* 88(423):1061-71. 1993.
 31. Heuser R. Fertility tables for birth cohorts by color: United States, 1917-73. Washington: National Center for Health Statistics. 1976.
 32. U.S. Bureau of the Census. The X-11 variant of the Census Method II Seasonal Adjustment Program. Technical paper; no 15, 1967 rev. Washington: U.S. Department of Commerce. 1967.

Table A. Percent of Birth Records on Which Specified Items Were Not Stated: United States and Each State and territory, 1999

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[By place of residence]

Area	All births	Place of Birth	Attendant at Birth	Mother's Birthplace	Father's Age	Father's Race	Hispanic Origin		Educational Attainment of Mother	Live-birth Order	Length of Gestation	Month Prenatal Care Began	Number of Prenatal Visits
							Mother	Father					
Total of reporting areas 1/	#####	0.0	0.0	0.3	14.0	14.6	1.2	14.9	1.6	0.5	1.1	2.9	3.9
Alabama	62,122	-	0.0	0.1	22.7	22.8	0.1	22.7	0.3	0.0	0.1	0.3	0.7
Alaska	9,950	0.0	0.1	0.4	12.7	15.1	0.5	13.4	2.2	0.3	0.2	1.9	1.7
Arizona	81,145	0.0	0.0	0.2	19.7	21.7	1.3	21.7	2.4	0.3	0.2	2.5	4.7
Arkansas	36,729	0.0	0.0	0.1	19.6	21.8	0.1	20.9	1.0	0.1	0.2	2.4	2.6
California	518,508	0.0	0.0	0.3	7.2	6.8	0.6	6.2	1.5	0.1	2/5/7	1.6	3.1
Colorado	62,167	-	-	0.3	9.0	9.4	0.1	9.5	1.0	0.1	0.0	0.7	0.9
Connecticut	43,310	0.0	0.0	0.2	10.9	12.3	5.1	15.6	3.4	7.1	0.2	3.3	6.3
Delaware	10,676	-	0.5	0.2	31.6	32.3	0.1	31.5	0.5	0.1	0.1	0.8	1.0
District of Columbia	7,522	-	-	0.1	43.5	51.0	0.7	43.4	9.2	0.1	0.6	16.8	19.7
Florida	197,023	0.0	0.0	0.1	17.3	17.6	0.1	18.9	0.6	0.0	0.1	0.9	2.0
Georgia	126,717	0.0	0.0	0.2	17.6	18.1	1.2	18.4	2.3	0.5	0.2	3.7	3.4
Hawaii	17,038	-	0.0	0.1	8.9	9.1	0.1	9.2	0.7	0.0	3.4	3.8	4.4
Idaho	19,872	-	0.0	0.2	8.3	11.5	0.4	11.1	2.3	0.1	0.2	1.5	2.0
Illinois	182,068	0.0	0.0	0.1	14.4	15.8	0.1	15.9	1.0	0.1	0.2	2.1	2.5
Indiana	86,031	0.0	0.1	0.2	13.3	13.4	0.4	13.6	0.9	0.2	0.1	1.3	2.6
Iowa	37,558	0.0	0.0	0.4	11.9	13.7	1.0	14.6	1.5	0.1	0.1	1.1	3.2
Kansas	38,782	-	0.0	0.1	10.5	10.7	0.9	11.9	0.3	0.0	0.1	0.6	0.8
Kentucky	54,403	-	0.1	0.0	19.5	22.2	0.1	23.1	0.2	0.1	0.1	1.0	1.2
Louisiana	67,136	0.0	0.0	0.0	21.3	21.5	0.6	21.8	0.0	0.0	0.0	0.3	0.6
Maine	13,616	-	0.0	-	9.6	14.1	5.1	18.1	0.8	0.3	0.1	0.5	0.5
Maryland	71,967	0.0	0.0	0.6	7.7	9.2	0.4	6.6	1.9	0.3	0.5	3.8	6.6
Massachusetts	80,939	-	0.0	0.0	7.7	7.6	0.6	6.8	0.4	0.4	0.4	1.2	0.5
Michigan	133,607	0.0	0.1	0.1	15.4	17.6	5.9	22.2	1.7	0.4	0.3	4.1	5.6
Minnesota	65,970	-	-	0.1	8.5	10.9	5.2	15.3	2.2	0.4	0.9	6.4	5.7
Mississippi	42,684	0.0	0.0	0.1	23.1	22.9	0.1	23.3	0.3	0.1	0.2	0.6	1.7
Missouri	75,432	-	-	0.2	17.9	18.5	0.1	18.3	0.7	0.4	0.1	1.8	2.8
Montana	10,785	0.0	0.1	0.0	9.4	10.5	1.4	11.5	0.4	0.0	0.1	0.4	0.3
Nebraska	23,907	-	0.0	0.0	11.8	12.8	2.4	13.9	0.1	-	0.0	0.3	0.6
Nevada	29,362	0.0	0.0	1.0	20.8	21.7	1.4	20.3	3.5	1.1	1.0	8.4	10.9
New Hampshire	14,041	-	-	0.0	6.3	8.8	3.9	13.2	1.1	2.4	0.3	1.5	1.6
New Jersey	114,105	0.0	0.0	0.2	9.0	11.3	0.4	9.4	2.6	0.1	0.1	5.4	6.8
New Mexico	27,191	-	-	2.7	28.6	28.0	0.0	28.0	4.5	0.5	0.5	7.3	5.8
New York	255,612	0.1	0.0	0.4	14.9	15.2	4.9	18.8	1.9	0.1	0.4	9.6	6.7
North Carolina	113,795	-	0.0	0.0	16.8	16.8	0.0	16.8	0.2	0.1	0.1	0.7	0.7
North Dakota	7,639	0.0	0.0	-	8.4	9.0	3.4	12.1	0.2	0.1	0.1	0.4	0.4
Ohio	152,584	0.0	0.0	2.0	15.1	17.0	0.4	12.3	0.7	0.3	0.1	1.2	2.4
Oklahoma	49,010	-	0.1	0.1	17.8	19.2	2.0	19.3	1.8	1.5	4.8	11.2	13.9
Oregon	45,204	-	-	0.2	11.3	5.1	0.8	6.0	1.8	0.1	0.0	0.4	0.7
Pennsylvania	145,347	0.0	0.0	0.9	5.5	4.2	0.5	3.6	2.7	0.5	0.3	3.8	6.0
Rhode Island	12,366	-	-	0.5	13.6	14.4	13.8	24.2	2.9	1.6	1.3	4.9	5.6
South Carolina	54,948	0.0	0.0	0.3	28.0	28.0	0.1	28.0	4.5	0.1	0.2	1.5	1.7
South Dakota	10,524	0.0	-	0.0	12.7	12.8	0.1	13.1	0.2	0.0	0.0	0.2	0.3
Tennessee	77,803	-	0.0	0.1	15.8	16.0	0.0	16.1	0.2	0.2	0.3	1.4	1.1
Texas	349,245	0.0	0.0	0.4	15.2	15.3	0.4	15.3	1.7	1.3	0.7	2.1	5.8
Utah	46,290	0.0	0.0	0.2	8.7	9.6	0.2	9.0	1.0	0.4	0.1	4.9	5.6
Vermont	6,567	-	-	0.1	9.1	14.8	2.2	16.1	2.6	0.5	0.1	4.1	2.0
Virginia	95,469	-	0.1	0.1	17.8	19.1	0.2	17.8	0.7	0.0	0.1	0.3	0.5
Washington	79,586	0.0	0.2	0.4	10.0	13.8	4.4	15.1	10.1	3.7	2.2	9.5	13.8
West Virginia	20,728	0.2	0.0	0.1	12.6	13.4	0.2	13.4	0.8	0.1	0.4	4.5	3.3
Wisconsin	68,208	-	0.0	0.1	28.8	28.8	0.0	28.8	0.2	0.0	0.0	0.2	0.3
Wyoming	6,129	-	-	0.0	14.2	14.8	0.0	14.3	0.5	0.0	0.0	0.7	1.1
Puerto Rico	59,563	-	0.1	-	3.0	3.8	---	---	0.4	0.0	0.1	0.4	0.1
Virgin Islands	1,671	-	0.1	-	24.8	26.5	4.4	27.5	2.6	0.6	1.1	0.7	2.9
Guam	4,021	0.0	1.0	0.4	22.9	23.9	1.2	25.4	0.6	1.0	0.3	0.5	0.9
American Samoa	1,736	0.1	-	36.6	35.5	35.8	---	---	---	-	---	---	---
Commonwealth of the Northern Marianas Islands	1,381	0.1	0.2	0.1	6.4	8.5	---	---	15.1	14.4	12.5	15.5	13.3

Table A. Percent of Birth Records on Which Specified Items Were Not Stated: United States and Each State and territory, 1999

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[By place of residence]

Area	All births	Birth Weight	5-minute Apgar Score	Medical Risk Factors	Tobacco Use	Alcohol Use	Weight Gain	Obstetric Procedures	Complications of Labor and/or Delivery	Method of Delivery	Abnormal Conditions of Newborn	Congenital Anomalies
Total of reporting areas 1/	#####	0.1	0.5	1.6	1.4	1.7	8.4	1.1	1.3	0.8	2.5	1.9
Alabama	62,122	0.1	0.3	0.0	0.0	0.1	3.4	0.0	0.0	0.3	0.0	0.0
Alaska	9,950	0.4	0.6	0.7	0.6	0.8	2.5	0.4	0.6	0.5	0.7	0.9
Arizona	81,145	0.1	0.4	0.0	1.3	1.5	11.9	0.0	0.0	0.3	0.0	0.4
Arkansas	36,729	0.1	3.4	0.2	0.4	0.5	7.5	0.2	0.2	0.5	0.2	0.2
California	518,508	0.0	---	0.0	---	---	---	0.0	0.0	0.0	0.0	0.0
Colorado	62,167	0.0	0.3	0.0	0.1	0.1	2.9	-	-	-	-	0.1
Connecticut	43,310	0.0	1.5	9.8	5.7	6.0	18.4	9.3	10.2	0.9	15.9	16.8
Delaware	10,676	0.0	0.3	0.0	0.3	0.3	1.6	0.0	0.0	-	0.1	0.0
District of Columbia	7,522	0.2	1.1	0.0	0.0	0.0	17.5	-	-	0.0	0.0	0.0
Florida	197,023	0.0	0.2	0.0	0.1	0.1	4.8	0.0	0.0	0.6	0.0	0.0
Georgia	126,717	0.0	0.5	0.3	0.5	0.5	8.2	0.0	0.0	0.4	0.0	0.0
Hawaii	17,038	0.9	1.2	19.6	0.1	0.1	12.5	11.8	10.1	0.5	21.5	23.3
Idaho	19,872	0.1	0.5	0.2	0.5	0.6	7.1	0.2	0.2	0.4	0.5	0.5
Illinois	182,068	0.1	0.3	0.0	0.2	0.1	4.2	0.0	0.0	0.4	0.0	0.1
Indiana	86,031	0.4	0.4	0.2	3/ 0.3	0.3	2.8	0.1	0.2	0.5	0.7	0.7
Iowa	37,558	0.0	0.3	0.1	2.2	2.6	6.7	0.1	0.1	0.5	0.1	0.1
Kansas	38,782	0.0	0.4	4/ 0.5	0.5	0.5	0.6	0.4	0.4	1.2	0.4	0.4
Kentucky	54,403	0.1	0.4	5.3	3.8	4.4	8.5	4.0	6.1	4.2	13.0	11.9
Louisiana	67,136	0.0	0.3	0.1	0.1	0.1	5.9	0.1	0.1	0.1	0.1	0.1
Maine	13,616	0.1	0.2	0.1	1.7	2.1	1.7	0.0	0.0	0.2	0.1	0.1
Maryland	71,967	0.0	0.4	0.0	0.4	0.6	6.6	0.0	0.0	0.2	0.0	0.0
Massachusetts	80,939	0.5	0.5	1.0	0.4	0.4	1.1	1.0	1.0	0.7	1.3	1.3
Michigan	133,607	0.3	0.5	0.1	2.1	2.1	9.6	0.1	0.1	0.5	0.1	0.3
Minnesota	65,970	0.1	0.6	7.2	6.6	6.7	18.2	5.8	6.7	3.3	7.5	7.9
Mississippi	42,684	0.1	0.3	0.1	0.2	0.3	5.1	0.0	0.1	0.3	0.1	0.1
Missouri	75,432	0.0	0.5	0.1	0.3	0.4	2.9	0.1	0.1	0.6	0.1	0.1
Montana	10,785	0.0	0.4	0.1	0.9	1.4	1.7	0.1	0.1	0.3	0.1	0.2
Nebraska	23,907	0.0	0.2	0.0	0.8	0.8	1.7	0.0	0.0	0.3	0.1	0.0
Nevada	29,362	0.1	1.4	9.4	2.0	2.2	11.8	1.2	6.4	0.8	11.2	11.7
New Hampshire	14,041	0.3	0.4	0.1	0.3	0.3	4.1	0.1	0.1	0.3	0.1	0.1
New Jersey	114,105	0.1	0.3	1.2	0.6	0.8	7.2	0.1	0.8	0.4	24.8	1.7
New Mexico	27,191	0.3	3.3	0.1	2.4	2.4	11.1	0.0	0.0	0.6	0.2	---
New York	255,612	0.1	0.2	1.3	3/ 0.2	0.2	9.7	0.2	0.4	0.3	7/ 0.9	0.9
North Carolina	113,795	0.1	0.4	0.0	0.2	0.2	2.5	0.0	0.0	0.4	0.0	0.0
North Dakota	7,639	0.1	0.3	0.4	0.7	1.2	1.6	0.3	0.3	1.3	0.6	0.5
Ohio	152,584	0.1	0.2	0.1	0.4	0.4	2.8	0.1	0.1	0.6	0.1	0.1
Oklahoma	49,010	0.6	6.1	37.9	28.7	29.0	37.9	33.9	37.0	28.9	40.9	41.2
Oregon	45,204	0.0	0.5	1.0	0.9	1.0	3.3	0.0	0.0	0.3	0.1	0.1
Pennsylvania	145,347	0.1	0.4	0.1	0.6	0.7	9.3	0.0	0.0	0.0	0.6	0.5
Rhode Island	12,366	0.5	0.4	6.8	2.8	2.9	12.3	6.5	6.6	0.4	14.7	14.7
South Carolina	54,948	0.0	0.3	0.0	0.2	0.2	2.6	0.0	0.0	0.4	0.0	0.0
South Dakota	10,524	0.0	0.4	0.1	---	---	1.1	0.1	0.0	0.1	0.0	0.0
Tennessee	77,803	0.0	0.3	0.1	0.2	0.2	5.5	0.1	0.1	0.6	0.1	0.1
Texas	349,245	0.1	---	5/ 1.4	1.4	1.4	18.5	0.0	8/ 0.0	0.9	6/ 0.3	0.4
Utah	46,290	0.1	0.4	0.1	0.3	0.4	3.8	0.0	0.0	0.0	0.2	0.2
Vermont	6,567	0.3	0.4	0.2	0.4	0.4	1.4	0.2	0.2	0.1	0.3	0.2
Virginia	95,469	0.1	0.3	0.2	0.0	0.0	2.2	0.0	0.2	0.3	0.5	0.3
Washington	79,586	1.2	0.9	16.3	6.5	16.1	26.1	12.8	15.5	0.5	20.3	17.8
West Virginia	20,728	0.1	0.3	1.0	1.5	3.2	8.9	0.2	1.3	0.4	2.6	2.5
Wisconsin	68,208	0.0	0.4	0.1	0.1	0.1	1.8	0.1	0.1	0.0	9/ 0.1	0.1
Wyoming	6,129	0.0	0.5	0.0	1.1	1.2	2.6	0.0	0.0	0.2	0.0	0.0
Puerto Rico	59,563	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1
Virgin Islands	1,671	0.2	3.3	7.2	1.7	1.8	7.8	2.0	8.2	2.7	8.0	7.4
Guam	4,021	0.2	1.6	2.8	0.8	0.9	5.1	1.1	3.5	0.6	2.9	2.8
American Samoa	1,736	-	---	---	---	---	---	---	---	---	---	---
Commonwealth of the Northern Marianas Islan	1,381	5.8	10.4	---	10/ 16.0	10/ 16.1	---	---	---	9.8	---	---

0.0 Quantity more than zero but less than 0.05.

---Data not available.

- Quantity zero.

1/ Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas.

2/ California reports date last normal menses began but does not report clinical estimate of gestation.

3/ Indiana and New York State report tobacco use but do not report the average number of cigarettes smoked per day in standard categories; data for New York City are reported in standard categories.

4/ Kansas does not report Rh sensitization.

5/ Texas does not report genital herpes and uterine bleeding.

6/ Nebraska and Texas do not report birth injury.

7/ New York city does not report assisted ventilation less than 30 minutes and assisted ventilation of 30 minutes or more.

8/ Texas does not report anesthetic complications and fetal distress.

9/ Wisconsin does not report fetal alcohol syndrome.

10/ The Commonwealth of the Northern Marianas reports tobacco and alcohol use, but does not report the average number of cigarettes smoked per day or the average number of drinks per day.

Table B. Births by State of Occurrence and Residence for Births Occurring in the 50 States and the District of Columbia, 1999

Area	Occurrence	Residence
United States	3,963,465	3,959,417
Alabama	61,337	62,122
Alaska	9,843	9,950
Arizona	81,208	81,145
Arkansas	35,629	36,729
California	519,102	518,508
Colorado	62,387	62,167
Connecticut	43,253	43,310
Delaware	11,306	10,676
District of Columbia	14,655	7,522
Florida	197,153	197,023
Georgia	127,581	126,717
Hawaii	17,096	17,038
Idaho	19,413	19,872
Illinois	179,094	182,068
Indiana	86,211	86,031
Iowa	37,701	37,558
Kansas	38,231	38,782
Kentucky	52,829	54,403
Louisiana	67,419	67,136
Maine	13,393	13,616
Maryland	67,605	71,967
Massachusetts	81,767	80,939
Michigan	132,307	133,607
Minnesota	65,787	65,970
Mississippi	41,747	42,684
Missouri	77,371	75,432
Montana	10,747	10,785
Nebraska	24,210	23,907
Nevada	28,892	29,362
New Hampshire	13,684	14,041
New Jersey	110,992	114,105
New Mexico	26,870	27,191
New York State only	133,425	136,273
New York City only	123,713	119,339
North Carolina	114,885	113,795
North Dakota	8,879	7,639
Ohio	153,257	152,584
Oklahoma	47,908	49,010
Oregon	46,106	45,204
Pennsylvania	145,882	145,347
Rhode Island	13,223	12,366
South Carolina	52,594	54,948
South Dakota	10,673	10,524
Tennessee	82,963	77,803
Texas	352,970	349,245
Utah	47,261	46,290
Vermont	6,220	6,567
Virginia	93,293	95,469
Washington	79,062	79,586
West Virginia	21,376	20,728
Wisconsin	67,192	68,208
Wyoming	5,763	6,129
Occurrence in U.S. Territories or Foreign Countries	-	4,048
Puerto Rico	-	19
Virgin Islands	-	19
Guam	-	4
American Samoa	-	-
Northern Marianas	-	-
Canada	-	175
Cuba	-	-
Mexico	-	3,069
Remainder of world	-	762

- Quantity zero.

Table C. Lower and upper 95 percent and 96 percent confidence limit factors for a birth rate based on a Poisson variable of 1 through 99 births, B

B	$L(1- \alpha=.95,B)$	$U(1- \alpha=.95,B)$	$L(1- \alpha=.96,B)$	$U(1- \alpha=.96,B)$
1	0.02532	5.57164	0.02020	5.83392
2	0.12110	3.61234	0.10735	3.75830
3	0.20622	2.92242	0.18907	3.02804
4	0.27247	2.56040	0.25406	2.64510
5	0.32470	2.33367	0.30591	2.40540
6	0.36698	2.17658	0.34819	2.23940
7	0.40205	2.06038	0.38344	2.11666
8	0.43173	1.97040	0.41339	2.02164
9	0.45726	1.89831	0.43923	1.94553
10	0.47954	1.83904	0.46183	1.88297
11	0.49920	1.78928	0.48182	1.83047
12	0.51671	1.74680	0.49966	1.78566
13	0.53246	1.71003	0.51571	1.74688
14	0.54671	1.67783	0.53027	1.71292
15	0.55969	1.64935	0.54354	1.68289
16	0.57159	1.62394	0.55571	1.65610
17	0.58254	1.60110	0.56692	1.63203
18	0.59266	1.58043	0.57730	1.61024
19	0.60207	1.56162	0.58695	1.59042
20	0.61083	1.54442	0.59594	1.57230
21	0.61902	1.52861	0.60435	1.55563
22	0.62669	1.51401	0.61224	1.54026
23	0.63391	1.50049	0.61966	1.52602
24	0.64072	1.48792	0.62666	1.51278
25	0.64715	1.47620	0.63328	1.50043
26	0.65323	1.46523	0.63954	1.48888

Table C. Lower and upper 95 percent and 96 percent confidence limit factors for a birth rate based on a Poisson variable of 1 through 99 births, B

B	$L(1 - \alpha = .95, B)$	$U(1 - \alpha = .95, B)$	$L(1 - \alpha = .96, B)$	$U(1 - \alpha = .96, B)$
27	0.65901	1.45495	0.64549	1.47805
28	0.66449	1.44528	0.65114	1.46787
29	0.66972	1.43617	0.65652	1.45827
30	0.67470	1.42756	0.66166	1.44922
31	0.67945	1.41942	0.66656	1.44064
32	0.68400	1.41170	0.67125	1.43252
33	0.68835	1.40437	0.67575	1.42480
34	0.69253	1.39740	0.68005	1.41746
35	0.69654	1.39076	0.68419	1.41047
36	0.70039	1.38442	0.68817	1.40380
37	0.70409	1.37837	0.69199	1.39743
38	0.70766	1.37258	0.69568	1.39134
39	0.71110	1.36703	0.69923	1.38550
40	0.71441	1.36172	0.70266	1.37991
41	0.71762	1.35661	0.70597	1.37454
42	0.72071	1.35171	0.70917	1.36938
43	0.72370	1.34699	0.71227	1.36442
44	0.72660	1.34245	0.71526	1.35964
45	0.72941	1.33808	0.71816	1.35504
46	0.73213	1.33386	0.72098	1.35060
47	0.73476	1.32979	0.72370	1.34632
48	0.73732	1.32585	0.72635	1.34218
49	0.73981	1.32205	0.72892	1.33818
50	0.74222	1.31838	0.73142	1.33431
51	0.74457	1.31482	0.73385	1.33057
52	0.74685	1.31137	0.73621	1.32694

Table C. Lower and upper 95 percent and 96 percent confidence limit factors for a birth rate based on a Poisson variable of 1 through 99 births, B

B	$L(1- \alpha=.95,B)$	$U(1- \alpha=.95,B)$	$L(1- \alpha=.96,B)$	$U(1- \alpha=.96,B)$
53	0.74907	1.30802	0.73851	1.32342
54	0.75123	1.30478	0.74075	1.32002
55	0.75334	1.30164	0.74293	1.31671
56	0.75539	1.29858	0.74506	1.31349
57	0.75739	1.29562	0.74713	1.31037
58	0.75934	1.29273	0.74916	1.30734
59	0.76125	1.28993	0.75113	1.30439
60	0.76311	1.28720	0.75306	1.30152
61	0.76492	1.28454	0.75494	1.29873
62	0.76669	1.28195	0.75678	1.29601
63	0.76843	1.27943	0.75857	1.29336
64	0.77012	1.27698	0.76033	1.29077
65	0.77178	1.27458	0.76205	1.28826
66	0.77340	1.27225	0.76373	1.28580
67	0.77499	1.26996	0.76537	1.28340
68	0.77654	1.26774	0.76698	1.28106
69	0.77806	1.26556	0.76856	1.27877
70	0.77955	1.26344	0.77011	1.27654
71	0.78101	1.26136	0.77162	1.27436
72	0.78244	1.25933	0.77310	1.27223
73	0.78384	1.25735	0.77456	1.27014
74	0.78522	1.25541	0.77598	1.26810
75	0.78656	1.25351	0.77738	1.26610
76	0.78789	1.25165	0.77876	1.26415
77	0.78918	1.24983	0.78010	1.26223
78	0.79046	1.24805	0.78143	1.26036

Table C. Lower and upper 95 percent and 96 percent confidence limit factors for a birth rate based on a Poisson variable of 1 through 99 births, B

B	$L(1- \alpha=.95,B)$	$U(1- \alpha=.95,B)$	$L(1- \alpha=.96,B)$	$U(1- \alpha=.96,B)$
79	0.79171	1.24630	0.78272	1.25852
80	0.79294	1.24459	0.78400	1.25672
81	0.79414	1.24291	0.78525	1.25496
82	0.79533	1.24126	0.78648	1.25323
83	0.79649	1.23965	0.78769	1.25153
84	0.79764	1.23807	0.78888	1.24987
85	0.79876	1.23652	0.79005	1.24824
86	0.79987	1.23499	0.79120	1.24664
87	0.80096	1.23350	0.79233	1.24507
88	0.80203	1.23203	0.79344	1.24352
89	0.80308	1.23059	0.79453	1.24201
90	0.80412	1.22917	0.79561	1.24052
91	0.80514	1.22778	0.79667	1.23906
92	0.80614	1.22641	0.79771	1.23762
93	0.80713	1.22507	0.79874	1.23621
94	0.80810	1.22375	0.79975	1.23482
95	0.80906	1.22245	0.80074	1.23345
96	0.81000	1.22117	0.80172	1.23211
97	0.81093	1.21992	0.80269	1.23079
98	0.81185	1.21868	0.80364	1.22949
99	0.81275	1.21746	0.80458	1.22822

Table D. Sources for resident population and population including Armed Forces abroad: Birth- and death-registration States, 1900-1932, and United States, 1900-1999.

Year	Source
1999-----	U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1999. Washington: U.S. Bureau of the Census. Internet release, Jan. 2, 2001.
	Http://www.census.gov/population/estimates/nation/intfile3-1.txt .
1998-----	U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1998. Washington: U.S. Bureau of the Census. Internet release, June 4, 1999.
	Http://www.census.gov/population/www/estimates/uspop.html .
1997-----	U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1997. PPL-91R. Rounded populations consistent with U.S. Bureau of the Census file NESTV97. Washington:U.S. Department of Commerce. 1998.
1996-----	U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1996. PPL-57. Washington:U.S. Department of Commerce. 1997.
1995-----	U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1995. Census file RESD0795, PPL-41. Washington:U.S. Department of Commerce. 1996.
1994-----	U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1990 to 1994. PPL-21. Washington:U.S. Department of Commerce. 1995.
1993-----	U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1993. Census file RESO793. Washington:U.S. Department of Commerce. 1995.
1992-----	U.S. Bureau of the Census, United States population estimates, by age, sex, race, and Hispanic origin: 1992. Census file RESPO792. Washington:U.S. Department of Commerce. 1994.
1991-----	U.S. Bureau of the Census, Unpublished data consistent with Current Population Reports, Series P-25, No. 1095, Feb. 1993.
1990-----	U.S. Bureau of the Census, Unpublished data from the 1990 census. 1990 CPH-L-74 and unpublished data consistent with Current Population Reports, Series P-25, No. 1095, Feb. 1993.
1989-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 1057, Mar. 1990.
1988-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 1045, Jan. 1990.
1986-87-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 1022, Mar. 1988.
1985-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 1000, Feb. 1987.
1984-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 985, Apr. 1986.
1983-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 965, Mar. 1985.
1982-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 949, May 1984.
1981-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 929, May 1983.
1980-----	U.S. Bureau of the Census, U.S. Census of Population: 1980, Number of Inhabitants, PC80-1-A1, United States Summary, 1983.
1971-79-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 917, July 1982.
1970-----	U.S. Bureau of the Census, U.S. Census of Population: 1970, Number of Inhabitants, Final Report PC(1)-A1, United States Summary, 1971.
1961-69-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 519, April 1974.
1960-----	U.S. Bureau of the Census, U.S. Census of Population: 1960, Number of Inhabitants, PC(1)-A1, United States Summary, 1964.
1951-59-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 310, June 30, 1965.
1940-50-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 499, May 1973.
1930-39-----	U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 499, May 1973, and National Office of Vital Statistics, Vital Statistics Rates in the United States, 1900-1940, 1947.
1920-29-----	National Office of Vital Statistics, Vital Statistics Rates in the United States, 1900-1940, 1947.
1917-19-----	Same as for 1930-39.
1900-1916-----	Same as for 1920-29.

Table 4-1. Population of Birth- and Death-Registration States, 1900-1932, and United States, 1900-1999

(Population enumerated as of April 1 for 1940, 1950, 1960, 1970, 1980 and 1990 and estimated as of July 1 for all other years)

Year	United States/1		Year	United States/1		Birth-registration States		Death-registration States	
	Population including Armed Forces abroad	Population residing in area		Population including Armed Forces abroad	Population residing in area	Number of States/2	Population residing in area	Number of States/2	Population residing in area
1999	272,945,300	272,690,813	1949	149,188,000	148,665,000	...	...	...	...
1998	270,509,187	270,298,524	1948	146,631,000	146,093,000	...	...	...	...
1997	267,901,000	267,636,061	1947	144,126,000	143,446,000	...	...	...	...
1996	265,556,890	265,283,783	1946	141,389,000	140,054,000	...	...	...	...
1995	263,033,968	262,755,270	1945	139,928,000	132,481,000	...	...	...	...
1994	260,650,690	260,340,990	1944	138,397,000	132,885,000	...	...	...	...
1993	258,119,768	257,783,004	1943	136,739,000	134,245,000	...	...	...	...
1992	255,457,501	255,077,536	1942	134,860,000	133,920,000	...	...	...	...
1991	252,688,000	252,177,000	1941	133,402,000	133,121,000	...	...	...	...
1990	249,225,000	248,709,873	1940	131,820,000	131,669,275	...	...	...	...
1989	247,342,000	246,819,000	1939	131,028,000	130,879,718	...	...	...	...
1988	245,021,000	244,499,000	1938	129,969,000	129,824,939	...	...	...	...
1987	242,804,000	242,289,000	1937	128,961,000	128,824,829	...	...	...	...
1986	240,651,000	240,133,000	1936	128,181,000	128,053,180	...	...	...	...
1985	238,466,000	237,924,000	1935	127,362,000	127,250,232	...	...	...	...
1984	236,348,000	235,825,000	1934	126,485,000	126,373,773	...	...	...	...
1983	234,307,000	233,792,000	1933	125,690,000	125,578,763	...	...	...	...
1982	232,188,000	231,664,000	1932	124,949,000	124,840,471	47	118,903,899	47	118,903,899
1981	229,966,000	229,466,000	1931	124,149,000	124,039,648	46	117,455,229	47	118,148,987
1980	227,061,000	226,545,805	1930	123,188,000	123,076,741	46	116,544,946	47	117,238,278
1979	225,055,000	224,567,000	1929	---	121,769,939	46	115,317,450	46	115,317,450
1978	222,585,000	222,095,000	1928	---	120,501,115	44	113,636,160	44	113,636,160
1977	220,239,000	219,760,000	1927	---	119,038,062	40	104,320,830	42	107,084,532
1976	218,035,000	217,563,000	1926	---	117,399,225	35	90,400,590	41	103,822,683
1975	215,973,000	215,465,000	1925	---	115,831,963	33	88,294,564	40	102,031,555
1974	213,854,000	213,342,000	1924	---	114,113,463	33	87,000,295	39	99,318,098
1973	211,909,000	211,357,000	1923	---	111,949,945	30	81,072,123	38	96,788,197
1972	209,896,000	209,284,000	1922	---	110,054,778	30	79,560,746	37	92,702,901
1971	207,661,000	206,827,000	1921	---	108,541,489	27	70,807,090	34	87,814,447
1970	204,270,000	203,211,926	1920	---	106,466,420	23	63,597,307	34	86,079,263
1969	202,677,000	201,385,000	1919	105,063,000	104,512,110	22	61,212,076	33	83,157,982
1968	200,706,000	199,399,000	1918	104,550,000	103,202,801	20	55,153,782	30	79,008,412
1967	198,712,000	197,457,000	1917	103,414,000	103,265,913	20	55,197,952	27	70,234,775
1966	196,560,000	195,576,000	1916	---	101,965,984	11	32,944,013	26	66,971,177
1965	194,303,000	193,526,000	1915	---	100,549,013	10	31,096,697	24	61,894,847
1964	191,889,000	191,141,000	1914	---	99,117,567	...	...	24	60,963,309
1963	189,242,000	188,483,000	1913	---	97,226,814	...	...	23	58,156,740
1962	186,538,000	185,771,000	1912	---	95,331,300	...	...	22	54,847,700
1961	183,691,000	182,992,000	1911	---	93,867,814	...	...	22	53,929,644
1960	179,933,000	179,323,175	1910	---	92,406,536	...	...	20	47,470,437
1959	177,264,000	176,513,000	1909	---	90,491,525	...	...	18	44,223,513
1958	174,141,000	173,320,000	1908	---	88,708,976	...	...	17	38,634,759
1957	171,274,000	170,371,000	1907	---	87,000,271	...	...	15	34,552,837
1956	168,221,000	167,306,000	1906	---	85,436,556	...	...	15	33,782,288
1955	165,275,000	164,308,000	1905	---	83,819,666	...	...	10	21,767,980
1954	162,391,000	161,164,000	1904	---	82,164,974	...	...	10	21,332,076
1953	159,565,000	158,242,000	1903	---	80,632,152	...	...	10	20,943,222
1952	156,954,000	155,687,000	1902	---	79,160,196	...	...	10	20,582,907
1951	154,287,000	153,310,000	1901	---	77,585,128	...	...	10	20,237,453
1950	151,132,000	150,697,361	1900	---	76,094,134	...	...	10	19,965,446

--- Data not available

... Category not applicable

1/Alaska included beginning 1959 and Hawaii, 1960.

2/The District of Columbia is not included in "Number of States," but it is represented in all data shown for each year.

SOURCE: Published and unpublished data from the U.S. Bureau of the Census; see text.

Table 4-2. Estimated Population of the United States, by Age, Race, and Sex: July 1, 1999

[Figures include Armed Forces stationed in the United States but exclude those stationed outside the United States.]

Age	All races			White			Black			American Indian			Asian and Pacific Islander		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All ages	272,690,813	133,276,559	139,414,254	224,610,797	110,336,291	114,274,506	34,862,169	16,557,186	18,304,983	2,397,426	1,186,745	1,210,681	10,820,421	5,196,337	5,624,084
Under 1	3,819,903	1,952,133	1,867,770	3,027,180	1,549,389	1,477,791	568,772	289,078	279,694	42,542	21,442	21,100	181,409	92,224	89,185
1-4 years	15,122,239	7,730,542	7,391,697	12,015,456	6,155,680	5,859,776	2,226,888	1,129,687	1,097,201	159,576	80,755	78,821	720,319	364,420	355,899
5-9 years	19,946,746	10,207,957	9,738,789	15,706,268	8,047,451	7,658,817	3,145,614	1,597,522	1,548,092	219,430	111,364	108,066	875,434	451,620	423,814
10-14 years	19,548,484	10,011,707	9,536,777	15,388,526	7,892,905	7,495,621	3,087,258	1,569,095	1,518,163	248,536	126,289	122,247	824,164	423,418	400,746
15-19 years	19,747,923	10,150,997	9,596,926	15,647,637	8,069,271	7,578,366	3,043,767	1,548,256	1,495,511	234,657	117,925	116,732	821,862	415,545	406,317
15-17 years	11,762,063	6,058,282	5,703,781	9,304,359	4,803,475	4,500,884	1,807,421	924,663	882,758	145,820	73,686	72,134	504,463	256,458	248,005
18-19 years	7,985,860	4,092,715	3,893,145	6,343,278	3,265,796	3,077,482	1,236,346	623,593	612,753	88,837	44,239	44,598	317,399	159,087	158,312
20-24 years	18,025,589	9,183,052	8,842,537	14,367,068	7,371,872	6,995,196	2,696,655	1,333,366	1,363,289	194,322	97,858	96,464	767,544	379,956	387,588
25-29 years	18,209,100	9,055,292	9,153,808	14,504,772	7,289,220	7,215,552	2,611,248	1,248,879	1,362,369	193,241	99,069	94,172	899,839	418,124	481,715
30-34 years	19,726,712	9,770,996	9,955,716	15,926,621	7,984,101	7,942,520	2,675,415	1,256,405	1,419,010	180,806	92,200	88,606	943,870	438,290	505,580
35-39 years	22,544,607	11,215,732	11,328,875	18,503,500	9,302,148	9,201,352	2,901,808	1,364,864	1,536,944	185,829	93,253	92,576	953,470	455,467	498,003
40-44 years	22,268,042	11,038,584	11,229,458	18,443,045	9,238,092	9,204,953	2,750,550	1,288,831	1,461,719	172,940	84,866	88,074	901,507	426,795	474,712
45-49 years	19,356,220	9,500,663	9,855,557	16,205,941	8,047,476	8,158,465	2,239,697	1,025,799	1,213,898	143,280	69,542	73,738	767,302	357,846	409,456
50-54 years	16,446,138	7,998,425	8,447,713	14,043,588	6,906,744	7,136,844	1,688,828	757,911	930,917	112,728	54,150	58,578	600,994	279,620	321,374
55-59 years	12,875,299	6,182,625	6,692,674	11,077,469	5,379,073	5,698,396	1,289,244	564,183	725,061	83,514	39,471	44,043	425,072	199,898	225,174
60-64 years	10,513,786	4,967,782	5,546,004	9,056,192	4,331,042	4,725,150	1,055,855	450,465	605,390	64,599	30,129	34,470	337,140	156,146	180,994
65-69 years	9,447,220	4,336,705	5,110,515	8,188,753	3,797,077	4,391,676	935,175	400,069	535,106	50,054	22,580	27,474	273,238	116,979	156,259
70-74 years	8,771,028	3,861,991	4,909,037	7,769,876	3,446,700	4,323,176	743,318	307,454	435,864	40,457	18,176	22,281	217,377	89,661	127,716
75-79 years	7,329,496	3,057,003	4,272,493	6,584,585	2,759,812	3,824,773	557,747	217,526	340,221	31,397	13,468	17,929	155,767	66,197	89,570
80-84 years	4,817,199	1,814,131	3,003,068	4,381,055	1,654,360	2,726,695	331,333	115,771	215,562	19,137	7,744	11,393	85,674	36,256	49,418
85 years +	4,175,082	1,240,242	2,934,840	3,773,265	1,113,878	2,659,387	312,997	92,025	220,972	20,381	6,464	13,917	68,439	27,875	40,564

SOURCE: Published and unpublished data from the U.S. Bureau of the Census; see text.

Table 4-3. Estimated Total Population and Female Population Aged 15-44 Years: United States, Each Division and State, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas: July 1, 1999

Division and State	Total	Female 15-44 years
United States	272,690,813	60,107,320
New England	13,495,933	2,985,434
Maine	1,253,040	275,886
New Hampshire	1,201,134	276,157
Vermont	593,740	133,527
Massachusetts	6,175,169	1,383,500
Rhode Island	990,819	216,350
Connecticut	3,282,031	700,014
Middle Atlantic	38,334,029	8,324,400
New York	18,196,601	4,021,959
New Jersey	8,143,412	1,768,142
Pennsylvania	11,994,016	2,534,299
East North Central	44,442,146	9,830,575
Ohio	11,256,654	2,485,661
Indiana	5,942,901	1,318,926
Illinois	12,128,370	2,675,538
Michigan	9,863,775	2,201,144
Wisconsin	5,250,446	1,149,306
West North Central	18,800,138	4,077,775
Minnesota	4,775,508	1,054,543
Iowa	2,869,413	603,102
Missouri	5,468,338	1,197,857
North Dakota	633,666	133,290
South Dakota	733,133	155,395
Nebraska	1,666,028	358,971
Kansas	2,654,052	574,617
South Atlantic	49,560,021	10,906,909
Delaware	753,538	173,146
Maryland	5,171,634	1,191,034
District of Columbia	519,000	125,336
Virginia	6,872,912	1,601,592
West Virginia	1,806,928	379,123
North Carolina	7,650,789	1,684,358
South Carolina	3,885,736	884,147
Georgia	7,788,240	1,841,921
Florida	15,111,244	3,026,252
East South Central	16,582,841	3,720,245
Kentucky	3,960,825	884,631
Tennessee	5,483,535	1,225,260
Alabama	4,369,862	981,570
Mississippi	2,768,619	628,784
West South Central	30,325,593	6,744,879
Arkansas	2,551,373	542,905
Louisiana	4,372,035	991,196
Oklahoma	3,358,044	711,212
Texas	20,044,141	4,499,566
Mountain	17,127,479	3,693,701
Montana	882,779	180,369
Idaho	1,251,700	271,323
Wyoming	479,602	100,851
Colorado	4,056,133	891,205
New Mexico	1,739,844	376,584
Arizona	4,778,332	1,001,135
Utah	2,129,836	497,103
Nevada	1,809,253	375,131
Pacific	44,022,633	9,823,402
Washington	5,756,361	1,281,159
Oregon	3,316,154	697,905
California	33,145,121	7,462,555
Alaska	619,500	133,877
Hawaii	1,185,497	247,906
Puerto Rico	3,889,507	911,825
Virgin Islands	119,615	25,990
Guam	151,968	31,111
American Samoa	63,781	13,873
Northern Marianas	69,216	23,435

Table 4-4. Estimated Total Population and Female Population Aged 15-44 Years: United States,
Each Division, State, and Territory: July 1, 1999

[Figures include Armed Forces stationed in each area and exclude those stationed outside the United States.]

Area	Total	Female 15-44 years	Area	Total	Female 15-44 years
United States	272,690,813	60,107,320			
Geographic divisions:			South Atlantic	49,560,021	10,906,909
New England	13,495,933	2,985,434	Delaware	753,538	173,146
Middle Atlantic	38,334,029	8,324,400	Maryland	5,171,634	1,191,034
East North Central	44,442,146	9,830,575	District of Columbia	519,000	125,336
West North Central	18,800,138	4,077,775	Virginia	6,872,912	1,601,592
South Atlantic	49,560,021	10,906,909	West Virginia	1,806,928	379,123
East South Central	16,582,841	3,720,245	North Carolina	7,650,789	1,684,358
West South Central	30,325,593	6,744,879	South Carolina	3,885,736	884,147
Mountain	17,127,479	3,693,701	Georgia	7,788,240	1,841,921
Pacific	44,022,633	9,823,402	Florida	15,111,244	3,026,252
New England	13,495,933	2,985,434	East South Central	16,582,841	3,720,245
Maine	1,253,040	275,886	Kentucky	3,960,825	884,631
New Hampshire	1,201,134	276,157	Tennessee	5,483,535	1,225,260
Vermont	593,740	133,527	Alabama	4,369,862	981,570
Massachusetts	6,175,169	1,383,500	Mississippi	2,768,619	628,784
Rhode Island	990,819	216,350	West South Central	30,325,593	6,744,879
Connecticut	3,282,031	700,014	Arkansas	2,551,373	542,905
Middle Atlantic	38,334,029	8,324,400	Louisiana	4,372,035	991,196
New York	18,196,601	4,021,959	Oklahoma	3,358,044	711,212
New Jersey	8,143,412	1,768,142	Texas	20,044,141	4,499,566
Pennsylvania	11,994,016	2,534,299	Mountain	17,127,479	3,693,701
East North Central	44,442,146	9,830,575	Montana	882,779	180,369
Ohio	11,256,654	2,485,661	Idaho	1,251,700	271,323
Indiana	5,942,901	1,318,926	Wyoming	479,602	100,851
Illinois	12,128,370	2,675,538	Colorado	4,056,133	891,205
Michigan	9,863,775	2,201,144	New Mexico	1,739,844	376,584
Wisconsin	5,250,446	1,149,306	Arizona	4,778,332	1,001,135
West North Central	18,800,138	4,077,775	Utah	2,129,836	497,103
Minnesota	4,775,508	1,054,543	Nevada	1,809,253	375,131
Iowa	2,869,413	603,102	Pacific	44,022,633	9,823,402
Missouri	5,468,338	1,197,857	Washington	5,756,361	1,281,159
North Dakota	633,666	133,290	Oregon	3,316,154	697,905
South Dakota	733,133	155,395	California	33,145,121	7,462,555
Nebraska	1,666,028	358,971	Alaska	619,500	133,877
Kansas	2,654,052	574,617	Hawaii	1,185,497	247,906
			Territories		
			Puerto Rico	3,889,507	911,825
			Virgin Islands	119,615	25,990
			Guam	151,968	31,111
			American Samoa	63,781	13,873
			Northern Marianas	69,216	23,435

Source: Published and unpublished data from the Bureau of the Census; see text.

Births: Final Data for 1999

by Stephanie J. Ventura, M.A.; Joyce A. Martin, M.P.H.; Sally C. Curtin, M.A.;
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Abstract

Objectives—This report presents 1999 data on U.S. births according to a wide variety of characteristics. Data are presented for maternal demographic characteristics including age, live-birth order, race, Hispanic origin, marital status, and educational attainment; maternal characteristics (medical risk factors, weight gain, tobacco and alcohol use); medical care utilization by pregnant women (prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth, and method of delivery); and infant characteristics (period of gestation, birthweight, Apgar score, abnormal conditions, congenital anomalies, and multiple births). Also presented are birth and fertility rates by age, live-birth order, race, Hispanic origin, and marital status. Selected data by mother's State of residence are shown, as well as data on month and day of birth, sex ratio, and age of father. Trends in fertility patterns and maternal and infant characteristics are described and interpreted.

Methods—Descriptive tabulations of data reported on the birth certificates of the 3.96 million births that occurred in 1999 are presented.

Results—Overall birth and fertility rates changed less than 1 percent in 1999. Teenage birth rates fell 2 to 6 percent. The rate for women aged 20–24 years declined slightly, while rates for women in their late twenties and their thirties rose 2 to 3 percent each. The number of births to unmarried women, the birth rate, and the percent of births that were to unmarried women each rose 1 percent or less. Smoking by pregnant women overall dropped again, but rose among women aged 18–24 years. Improvements in prenatal care utilization continued. The cesarean delivery rate increased for the third year after declining for 7 consecutive years. The proportion of multiple births continued to rise; however, higher order multiple births (e.g., triplets, quadruplets) declined for the first time in over a decade, following increases of 13 percent per year during 1990–98. The percent low birthweight remained at 7.6 percent, while preterm births rose to 11.8 percent. These trends are in large part the result of increases in multiple births.

Keywords: births • birth certificate • maternal and infant health • birth rates • maternal characteristics

Highlights

Births in the United States increased less than 1 percent in 1999, to 3,959,417, the second consecutive increase following a 7-percent decline from 1990 to 1997. The **birth rate** declined slightly in 1999 to 14.5 births per 1,000 total population, matching the record low reached in 1997. The **fertility rate**, which relates births to the number of women of childbearing age, increased less than 1 percent to 65.9 births per 1,000 women aged 15–44 years.

Fertility rates for women in racial and Hispanic origin subgroups changed relatively little in 1999. Rates increased for non-Hispanic white, Asian or Pacific Islander (API), Puerto Rican, and Cuban women. Rates declined for non-Hispanic black, Mexican, and American Indian women. The variation in rates found for recent years continued in 1999. The fertility rate was highest for Mexican women (112 per 1,000) followed by rates for Puerto Rican, non-Hispanic black, American Indian and API women, which fell within a relatively narrow range (66 to 78 per 1,000). Rates were much lower for non-Hispanic white and Cuban women (58 and 51 per 1,000, respectively).

The birth rate for teenagers declined again in 1999, falling 3 percent to 49.6 births per 1,000 women aged 15–19 years. The rate

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has declined 20 percent since 1991 (62.1) and is now at a record low. The birth rate for young teenagers 15–17 years fell 6 percent during 1998–99 to 28.7 per 1,000, also a record low. The rate for older teenagers 18–19 years declined 2 percent to 80.3. From 1991 to 1999, the rate for young teenagers dropped 26 percent, while the rate for older teenagers declined 15 percent. Although all population groups have experienced declines, the reductions in birth rates have been steepest for non-Hispanic black teenagers; rates fell by 22 to 38 percent. The teenage *pregnancy* rate has declined 19 percent in the 1990's, to 94.3 in 1997, reflecting concurrent declines in birth and abortion rates.

The **birth rate for women in their early twenties** declined slightly in 1999, falling to 111.0 per 1,000 women aged 20–24 years. The **rate for women aged 25–29** years increased 2 percent to 117.8 per 1,000. Birth rates for women in their twenties have changed relatively little since the early to mid-1970's.

Birth rates for women in their thirties increased to 89.6 per 1,000 aged 30–34 years, and to 38.3 per 1,000 aged 35–39 years, up 2 to 3 percent each. The rates for these age groups are at their highest in more than three decades. The **birth rate** for women aged 40–44 years increased again in 1999 to 7.4 per 1,000.

The **first birth rate** increased in 1999, to 26.6 first births per 1,000 women aged 15–44 years, the first increase in this rate since 1990. The **median age at first birth** increased to 24.5 years; the median has risen slowly but steadily since 1972 (22.0).

The **birth rate for unmarried women** increased slightly in 1999 to 44.4 births per 1,000 unmarried women aged 15–44 years. The number of births to unmarried women rose 1 percent to 1,308,560, the highest number ever reported. Most of this increase was linked to the rise in the number of unmarried women in the childbearing ages. The percent of all births that were to unmarried women increased to 33.0 percent in 1999, compared with 32.8 percent in 1998.

Cigarette smoking during pregnancy declined again in 1999, to 12.6 percent. The overall rate has fallen steadily since 1989. However, tobacco use by pregnant teenagers continued to increase in 1999, and the rates for women aged 20–24 years rose for the first time in a decade. Overall smoking rates remain lowest for non-Hispanic black, Hispanic, and Asian or Pacific Islander women. Infant birthweight is seriously compromised by maternal smoking: In 1999, 12.1 percent of births to smokers compared with 7.2 percent of births to nonsmokers weighed less than 2,500 grams (5 pounds, 8 ounces).

Women were slightly more likely to receive **timely prenatal care** in 1999, 83.2 percent began care in the first trimester of pregnancy, compared with 82.8 percent in 1998. The proportion of women with first trimester care has risen each year of the 1990's, for a total increase of 10 percent. Concurrently, the percent of women with late or no care has also improved for the decade, falling from 6.1 to 3.8 percent. Timely care has increased for all racial/ethnic groups between 1990 and 1999 with the largest gains (20 percent or more) reported for non-Hispanic black, American Indian, Hawaiian, Mexican, Puerto Rican, and Central and South American women.

The **rate of cesarean delivery** increased 4 percent between 1998 and 1999 to 22.0 percent; the 1999 rate is 6 percent higher than the recent low point in 1996 (20.7). This was the third consecutive year that the rate increased after falling each year during 1989–96. The **primary cesarean rate** in 1999 (15.5 per 100 live births to women who had no previous cesarean) was 4 percent higher than in 1998 and 6 percent

higher than in 1997 (14.6). The rate had declined each year between 1989 and 1996 and remained steady between 1996 and 1997. The rate of **vaginal birth after previous cesarean delivery (VBAC)** declined 11 percent between 1998 and 1999—from 26.3 per 100 women with a previous cesarean to 23.4. The VBAC rate dropped 17 percent between 1996 and 1999 after rising 50 percent between 1989 and 1996 (from 18.9 to 28.3). Births delivered by **forceps** continued to decline, to 2.3 percent of all births in 1999. After increasing steadily between 1989 and 1997, the percent of births delivered by **vacuum extraction** fell 18 percent between 1997 and 1999, to 5.1 percent.

Almost 20 percent of women who delivered in 1999 had **induced labor**, twice the 1990 level. The rate of induction has increased every year since 1989.

Twin births continued to rise in 1999, but for the first year in over a decade, **triplet and other higher order multiple births** (triplet/+) births declined. The number and rate of twin births was up 3 percent to 114,307 or 28.9 per 1,000 live births between 1998 and 1999. The twinning rate has risen by more than 50 percent since 1980. The number of triplet/+ births however, was down to 7,321 for 1999, from 7,625 in 1998; the triplet/+ birth rate declined 4 percent, from 193.5 to 184.9 per 100,000 live births. For 1998–99 the non-Hispanic white triplet/+ birth rate declined, but the rate increased among non-Hispanic black and Hispanic women. Since 1980, the number and rate of triplet/+ births has climbed from 1,337 and 37.0 per 100,000.

The rate of **preterm birth** (less than 37 completed weeks of gestation) increased again for 1999 to 11.8 percent from 11.6 percent in 1998. The percent of births born preterm has risen 11 percent since 1990 (10.6 percent). All of the current year rise, and most of that for the decade, has been among moderately preterm births (between 32 and 36 weeks of gestation). The proportion of births born very preterm was 1.96 percent; this level has fluctuated little since 1990. The preterm rate increased for non-Hispanic white births (10.2 to 10.5 percent for 1998–99), but was unchanged among non-Hispanic black (17.6 percent) and Hispanic births (11.4 percent).

The **low birthweight (LBW)** (less than 2,500 grams) rate was unchanged for 1999 at 7.6 percent. Low birthweight has been rising fairly steadily since the mid-1980's (6.8 percent), and has risen 9 percent since 1990 (7.0 percent). The percent **very low birthweight (VLBW)** (less than 1,500 grams) was unchanged from the previous year (1.45 percent), but has increased from 1.27 percent in 1990. LBW has risen substantially (18 percent) among non-Hispanic white births in the 1990's, but has declined slightly among births to non-Hispanic black mothers. The rise in LBW, especially among non-Hispanic white births, is influenced by the increased multiple birth rate; multiple births are much more likely than singletons to be low birthweight.

Introduction

This report presents detailed data on numbers and characteristics of births in 1999, birth and fertility rates, maternal lifestyle and health characteristics, medical services utilization by pregnant women, and infant health characteristics. These data provide important information on fertility patterns among American women by such characteristics as age, live-birth order, race, Hispanic origin, marital status, and educational attainment. Up-to-date information on these fertility patterns is critical to understanding population growth and

change in this country and in individual States. Data on maternal characteristics such as weight gain, tobacco and alcohol use, and medical risk factors are useful in accounting for differences in birth outcomes. Information on use of prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth and place of delivery, and method of delivery by maternal demographic characteristics can also help to explain differences in birth outcomes. It is very important that data on birth outcomes, especially levels of low birthweight and preterm birth, be continuously monitored, because these variables are important predictors of infant mortality and morbidity.

A report of preliminary birth statistics for 1999 presented data on selected topics based on a substantial sample (more than 99 percent) of the 1999 birth file (1). Findings for the selected measures (age, race, Hispanic origin, and marital status of mother, live-birth order, prenatal care, cesarean delivery, and low birthweight) based on the preliminary data are very similar to those presented here based on final data.

In addition to the tabulations included in this report, more detailed analysis is possible by using the natality public-use data tape, which is issued for each year. Birth data are also available in CD-ROM format since 1990, and a selection of tables of detailed data are available on the NCHS home page at <http://www.cdc.gov/nchs/datawh/statab/unpubd/natality/natab97.htm> (2, 3).

Methods

Data shown in this report are based on 100 percent of the birth certificates registered in all States and the District of Columbia. More than 99 percent of births occurring in this country are registered (4). Tables that show data by State also provide separate information for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas. However, these areas are not included in totals for the United States.

In this report, tabulations of births beginning with 1980 data are by race of mother; for years prior to 1980, tabulations are by race of child. Details of the differences in tabulation procedure are described in the [Technical notes](#). Text references to black births and black mothers or white births and white mothers are used interchangeably for ease in writing.

Race and Hispanic origin are reported independently on the birth certificate. In tabulations of birth data by race and Hispanic origin, data for Hispanic persons are not further classified by race because the vast majority of women of Hispanic origin are reported as white. Most tables in this report show data for these categories: white, total; white, non-Hispanic; black, total; black, non-Hispanic; and Hispanic. When data other than birth rates for Hispanic subgroups are shown, they are presented for the following five groups: Mexican, Puerto Rican, Cuban, Central and South American, and other (and unknown) Hispanic. When reporting birth rates for Hispanic subgroups, births to Central and South American women are added to births to other (and unknown) Hispanic women because more detailed population data for Central and South American women are not separately available. Data are shown for five Asian or Pacific Islander (API) subgroups: Chinese, Japanese, Hawaiian, Filipino, and "other" API. In addition, 11 States report data on API subgroups included in the "other API" category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API); see [Technical notes](#).

U.S. and State-level birth and fertility rates in this report were computed on the basis of population denominators provided by the U.S. Bureau of the Census. Rates by State shown in this report may differ from rates computed on the basis of other population estimates. Additional information on the measurement of marital status, gestational age, and birthweight; the computation of derived statistics and rates; population denominators; random variation and relative standard error; and the definitions of terms are presented in the [Technical notes](#).

Information on births by age, race, or marital status of mother is imputed if it is not reported on the birth certificate. These items were not reported for less than 1 percent of U.S. births in 1999. (See [Technical notes](#) for additional information.) All other maternal and infant characteristics (except items on which length of gestation is calculated) are not imputed; see [Technical notes](#). Births for which a particular characteristic is unknown are subtracted from the figures for total births that are used as denominators before percents, percent distributions, and medians are computed. Thus, for example, the proportion of women receiving care in the first trimester of pregnancy is computed on the basis of births for which month prenatal care began was reported. Levels of nonreporting vary substantially by specific item and by State. [Table I](#) in the [Technical notes](#) provides information on the percent of records with missing information for each item by State for 1999. Readers should note that the levels of incomplete reporting for some of the medical items are quite high in some States. Data for Connecticut, Hawaii, and Oklahoma, as well as the Northern Marianas are of particular concern.

Demographic characteristics

Births and birth rates

Number of births

The number of births in the United States increased less than 1 percent in 1999, to 3,959,417, compared with 3,941,553 in 1998. This is the second year of increase, albeit very modest, in the number of births since 1990. Between 1990, the most recent high point in U.S. births, and 1997, the number of births fell 7 percent; the number rose 2 percent between 1997 and 1999 (see [tables 1–14 for national and State birth data by age, live-birth order, race, and Hispanic origin](#)).

Increases and declines in the **number of births for race and Hispanic origin groups** were about evenly split in 1999 ([tables 1 and 6](#)). The number of non-Hispanic white and non-Hispanic black births each fell about 1 percent. Births to American Indian, Puerto Rican, Cuban, and Hawaiian women were essentially unchanged. While births to Hispanic and Asian or Pacific Islander (API) women increased overall about 4 to 5 percent, these increases were concentrated among a few subgroups: Mexican and Central and South American births rose 5 percent each, Chinese births increased 3 percent, and "other" API births jumped 8 percent. In contrast Japanese and Filipino births declined 2 percent each.

Crude birth rate

The crude birth rate declined very slightly from 14.6 live births per 1,000 total population in 1998 to 14.5 in 1999, matching a record

low for the Nation (1997). During the 1990's the rate declined in all but one year (1998). Between 1990 and 1997, the rate fell 13 percent.

Fertility rate

The fertility rate, which relates births to the number of women in the childbearing ages, was 65.9 live births per 1,000 women aged 15–44 years in 1999, less than 1 percent higher compared with 1998 (65.6). While the steady 7-year downward trend in U.S. fertility from 1990 to 1997 may have ended, at least temporarily, there is no evidence for any real upturn. Like the number of births and the birth rate, the recent high point for the fertility rate was 1990 (70.9); between 1990 and 1997, the fertility rate dropped 8 percent (table 1 and figure 1).

Fertility rates by race and Hispanic origin increased very slightly for non-Hispanic white (57.8 per 1,000 aged 15–44 years) women and declined 1 percent for non-Hispanic black women (72.2). Rates for American Indian (69.7) and Mexican women (111.6) each declined by 1 percent or less. Rates for API (65.6), Puerto Rican (77.7), Cuban (51.2), and other Hispanic women (92.6) each rose 2 to 3 percent (tables 1 and 6). Birth and fertility rates for specific API groups cannot be computed because the necessary populations are not available.

The fertility rate for Hispanic women in 1999 was among the lowest reported since 1989 when data accounting for virtually all Hispanic births in the United States first became available. The fertility rate for Mexican women in 1999 is also at its lowest, 8 percent lower than the peak recorded in 1991 (121.6). Trends in fertility for Hispanic women by subgroup for 1989–95 are presented in more detail in a recent report (5).

Age of mother

Teenagers—Birth rates for teenagers fell to all-time lows in 1999. The **birth rate for the youngest teenagers** was 0.9 births per 1,000 females 10–14 years in 1999, a record low for this age group (table 4). This rate has declined steadily since 1994 (the rate was 1.4 in each year 1989 through 1994). The number of births to 10–14-

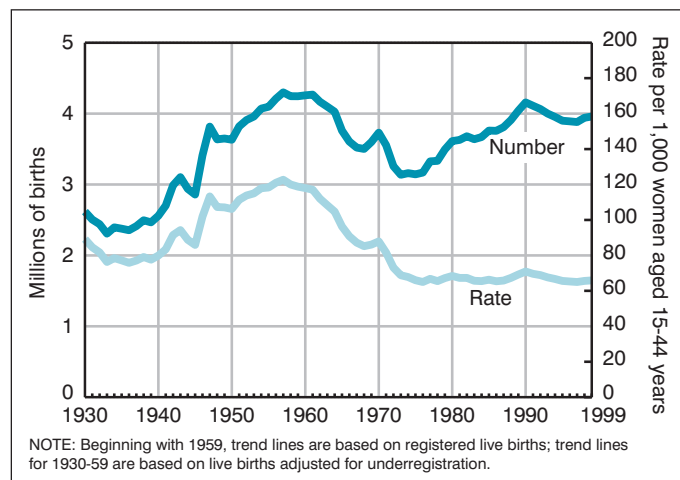


Figure 1. Live births and fertility rates: United States, 1930–99

year-olds fell 4 percent from 1998 to 1999, to 9,054, the lowest total reported in more than three decades (8,593 in 1967). The number of births to very young teenagers declined solely because the birth rate fell; the number of female teenagers has increased steadily in the 1990's and rose 2 percent from 1998 to 1999 (6).

The **birth rate for teenagers 15–19 years** fell 3 percent to 49.6 per 1,000, an all-time low for the Nation. This rate was 20 percent lower than the recent peak reported in 1991 (62.1) (table A). The declines in the 1990's in the teenage birth rate essentially reverse the 24-percent increase that occurred from 1986 (50.2 per 1,000) to 1991. State-specific birth rates for teenagers are discussed in the section "Births and birth rates by State."

Birth rates for teenage subgroups 15–17 and 18–19 years also fell between 1998 and 1999. The rate for teenagers 15–17 years declined 6 percent to 28.7 per 1,000, another record low (1,7). This rate fell by 26 percent from 1991 (38.7) to 1999 (table 4 and figure 2). The number of births to teenagers 15–17 years fell 3 percent from 1998 to 1999 to 163,588, the fewest in more than four decades.

The birth rate for older teenagers 18–19 years declined 2 percent, to 80.3 per 1,000. This rate fell 15 percent from 94.5 in 1992 (its recent high) to 1999 and is at its lowest point in more than a decade (79.9 in 1988). However, the number of births to older teens increased slightly between 1998 and 1999 to 312,462, only the second increase since 1990. This small increase is entirely due to the 2-percent rise in the number of female teenagers 18–19 years (6).

Table A. Birth rates for teenagers 15–19 years by age, race, and Hispanic origin of mother: United States, 1991, 1998, and 1999, and percent change, 1991–99

[Rates are live births per 1,000 women in specified group]

Year and age	Total ¹	Non-Hispanic		
		White	Black	Hispanic
15–19 years				
1999	49.6	34.0	83.7	93.4
1998	51.1	35.2	88.2	93.6
1991 ²	62.1	43.4	118.9	106.7
Percent change, 1991–99	–20	–22	–30	–12
Percent change, 1998–99	–3	–3	–5	–0
15–17 years				
1999	28.7	17.1	53.7	61.3
1998	30.4	18.4	58.8	62.3
1991 ²	38.7	23.6	86.7	70.6
Percent change, 1991–99	–26	–28	–38	–13
Percent change, 1998–99	–6	–7	–9	–2
18–19 years				
1999	80.3	58.9	126.8	139.4
1998	82.0	60.6	130.9	140.1
1991 ²	94.4	70.5	163.1	158.5
Percent change, 1991–99	–15	–16	–22	–12
Percent change, 1998–99	–2	–3	–3	–0

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

²See reference 5 for information on reporting areas in 1991.

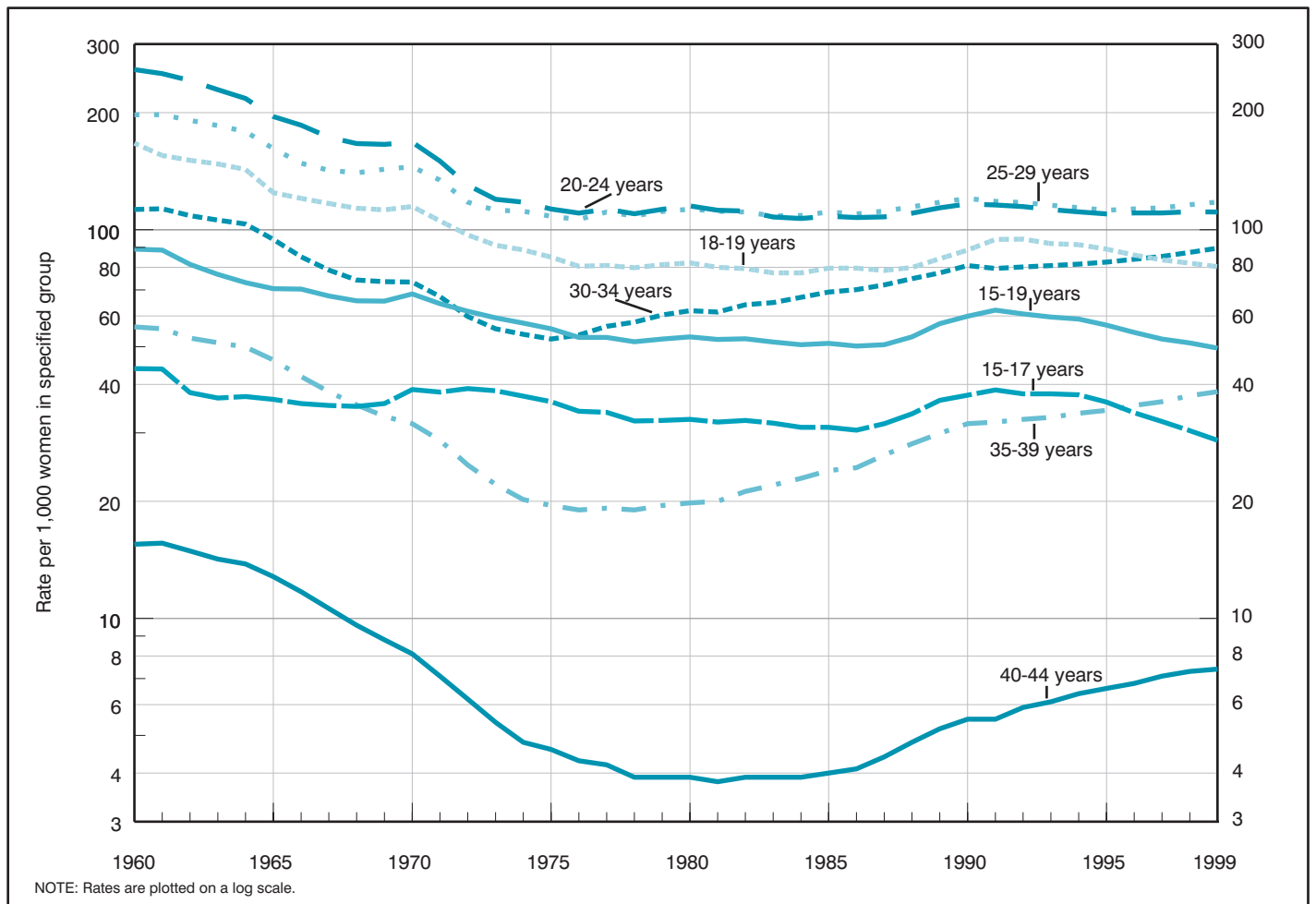


Figure 2. Birth rates by age of mother: United States, 1960–99

Teenage birth rates by race and Hispanic origin vary substantially (tables 3, 4, 8, and 9). Rates in 1999 were highest for Mexican, non-Hispanic black, Puerto Rican, and American Indian teenagers and lowest for non-Hispanic white, Cuban, and API teenagers, a pattern that has been observed since 1994. Despite the marked variation in rates (ranging from 22.3 to 101.5 per 1,000 aged 15–19 years), all population groups experienced notable declines in the 1990's. Between 1998 and 1999, teenage birth rates declined for all race and Hispanic origin groups except Cuban and "other" Hispanic teenagers. The rates for non-Hispanic white and API teenagers fell 3 percent each, while rates for non-Hispanic black and American Indian teenagers declined 5 to 6 percent each. The rates for Hispanic teenagers as a group and Mexican teenagers declined 1 percent or less.

From 1991, when rates for teenagers generally were at a peak, to 1999, birth rates fell 22 to 30 percent for non-Hispanic white and black teenagers, respectively. Despite the increase in the rate for Cuban teenagers, their rate remains one of the lowest among population subgroups. The 1999 rates for API and American Indian teenagers were 19 to 20 percent lower, respectively, than in 1991. The rate for Mexican teenagers, currently the highest of all groups, has declined by 19 percent just since 1995.

Teenage pregnancy rates (based on the sum of live births, induced abortions, and fetal losses) have also declined in recent years (8–10). The pregnancy rate for teenagers 15–19 years fell 19 percent

from 116.5 per 1,000 in 1991 to 94.3 in 1997, reversing an 11-percent rise from 1986 to 1991 (8, 9). (The most recent year for which pregnancy rates are available is 1997.) Further declines in the teenage pregnancy rate since 1997 are likely based on the sustained decline in the teenage birth rate.

The factors accounting for the current downturn in teenage pregnancy and birth rates are discussed in recent reports (7, 8). Briefly, the proportion of teenagers who are sexually experienced has stabilized in the mid 1990's, reversing the steady increases over the past two decades (11). Many public and private initiatives have focused teenagers' attention on the importance of pregnancy prevention through abstinence (12). Moreover, teenagers are more likely to use contraceptives at first intercourse, especially condoms (11, 13, and 14). Some sexually active teenagers have switched to implant and injectable contraceptives, which are effective new birth control methods (11).

Women aged 20 years and over: Women in their twenties—The birth rate for women aged 20–24 years declined very slightly in 1999 to 111.0 per 1,000. Since 1996, this rate has varied little, from 110 to 111 per 1,000. Earlier in the decade, the rate fell 5 percent from 116.5 in 1990 to 1996 (tables 4 and 9). The birth rate for women aged 25–29 years rose 2 percent in 1999 to 117.8, its highest level since 1992; this rate increased by 5 percent since 1995, following steady declines during 1990–95. Birth rates for women in their twenties, the principal childbearing ages, have been relatively stable over the

past two decades. In 1999 as in previous years, birth rates for women in age groups 20–24 and 25–29 years were consistently highest for Mexican women.

Women in their thirties—Birth rates for women in their thirties rose again in 1999. Rates for women in these age groups have generally increased steadily since the mid- to late 1970's, a pattern unlike any other age group (tables 4 and 9) (3, 15). The rate for women aged 30–34 years increased 3 percent in 1999 to 89.6 per 1,000. The 1999 rate was higher than in any year since 1965 (94.4), and 71 percent higher than the rate at its low point in 1975 (52.3) (3, 15). The pace of increase in the rate slowed in the 1990's to about 1 percent per year, compared with 3 percent annually during 1975–90. The number of births to women aged 30–34 years increased only slightly in 1999, because the number of women in that age group declined 2 percent (6).

The birth rate for women in their late thirties increased 2 percent to 38.3 per 1,000 women aged 35–39 years. This rate has more than doubled since 1978 (19.0); the 1999 rate matches the previous high point reached in 1967 (3). The pace of increase in the rate for women aged 35–39 years also slowed in the 1990's to about 2 percent annually compared with 4 percent per year from 1978 to 1990. Nevertheless, the 1999 rate was still 21 percent higher than the rate in 1990 (31.7). The number of births to women aged 35–39 years reached another record high in 1999 (434,294). During the 1990's, the number rose by more than one-third (317,583 in 1990). Among women in their thirties, birth rates were highest for API, Mexican, and "other" Hispanic women (tables 3 and 8).

Women in their forties—The birth rate for women aged 40–44 years increased from 7.3 per 1,000 in 1998 to 7.4 in 1999. This rate increased a third from 1990 (5.5) to 1999. From 1981 when the rate was at its lowest to 1999, the rate increased by 95 percent; the 1999 rate is higher than in any year since 1970 (8.1). From 1990 to 1999, the number of births in this age group rose 71 percent, from 48,607 to 83,090.

The birth rate for women aged 45–49 years remained unchanged at 0.4 births per 1,000 in 1998. Reflecting the continued increase in the number of women in this age group (who were born during 1950–54), the number of births to women aged 45–49 years rose 15 percent to 4,174, the highest number recorded in more than three decades (4,436 in 1966).

Births to women aged 50 years and over—Birth data for women aged 50–54 years are reported for the third consecutive year in 1999. These data were not available during 1964–96; for that period, mother's age was edited for ages 10–49 years (4). Additional information on the editing procedures is presented in the Technical notes. Because of the recent advances in fertility-enhancing therapies, an increasing number of women are giving birth at age 50 and older. In 1999, 174 births were reported to women aged 50–54 years (tables 2 and 7); 68 of these births were part of a multiple delivery (see section below on "Multiple births"). This number is too small for computing an age-specific birth rate. Therefore, in computing birth rates by age of mother, births to women aged 50–54 years have been included with births to women aged 45–49 years; the denominator for the rate is women aged 45–49 years.

Birth rates for women in their late thirties and early forties increased in 1999 but at a more moderate pace, similar to that experienced earlier in the 1990's. Still the rates for these age groups are dramatically higher than a quarter century ago (table 4). The

sustained rise is linked to several factors, including the availability and use of fertility-enhancing therapies by childless couples. Among currently childless women aged 35–44 years reporting impaired fecundity according to the National Survey of Family Growth, the proportion seeking fertility drug treatment rose considerably from 1982 to 1995 (13, 16).

Live-birth order

The first birth rate in 1999 was 26.6 first births per 1,000 women aged 15–44 years (table 5), up slightly compared with 1998. The 1999 increase was the first since 1990. The 1999 rate was 8 percent lower than in 1990 (29.0), its recent high point. The rates for second and third order births also increased slightly. Birth rates for other birth orders were unchanged.

While the first birth rate increased about 1 percent overall, there were substantial differences in the trends by age of mother (table 3; tabular data not shown for 1998 and earlier years). Rates declined for teenage subgroups 15–17 and 18–19 years by 6 and 1 percent, respectively. Rates for women in their twenties increased up to 1 percent. In contrast, first birth rates rose 4 and 2 percent, respectively, for women aged 30–34 and 35–39 years. The rate for women aged 40–44 years rose as well. Women aged 30 years and over accounted for 23 percent of all first births in 1999, the same proportion as in 1997 and in 1998, but dramatically higher than the 5 percent level reported in 1975 (15).

Another measure that can be useful in interpreting age trends in childbearing is the median age at first birth. The median age is the value that divides the birth rate distributions into two equal parts, one-half of the values being less and one-half being greater. This measure has gradually increased since the early 1970's as the tendency for women to postpone childbearing was underway. The median age at first birth inched up again in 1999 to 24.5 years, compared with 24.3 years in 1998, 23.8 in 1990, and 22.0 in 1972 (3). The mean age at first birth is also useful in reviewing age patterns in fertility; the mean age was 24.8 years in 1999, compared with 24.7 in 1997 and 1998.

The birth rate for second births to teenagers who have had a first birth changed very little in 1999, compared with 1997 and 1998, after falling 21 percent from 1991 to 1996 (6). All of the decline in teenage birth rates in 1999 was thus due to declines in first birth rates.

Total fertility rate

The total fertility rate (TFR) shows the potential impact of current fertility patterns on completed family size. The TFR indicates the number of births that a hypothetical group of 1,000 women would have if they experienced throughout their childbearing years the age-specific birth rates observed in a given year. Because it is computed from age-specific birth rates, the TFR is age-adjusted; it is not affected by changes over time in age composition.

The TFR in 1999 was 2,075.0, a scant 1 percent higher than in 1998 (tables 4 and 9). The TFR has increased by 3 percent overall since 1995, reversing a 3-percent decline from 1990 to 1995. The increase in the TFR in 1999 resulted from the 1- to 3- percent increases in age-specific birth rates for women in age groups 25–44 years, which more than compensated for the declines in birth rates for teenagers and women in their early twenties.

The U.S. TFR for 1999 was about 1 percent below “replacement” level (2,100), the rate at which a given generation can exactly replace itself. The TFR has been below “replacement” since 1971 (2,266.5). TFR’s vary substantially among racial and Hispanic origin groups. In 1999, as in recent years, the TFR was above “replacement” for Mexican, non-Hispanic black, Puerto Rican, and “other” Hispanic women. Rates were below “replacement” for American Indian, API, Cuban, and non-Hispanic white women (tables 4, 9, 13, and 14). Increases and decreases between 1998 and 1999 in most TFR’s were 1 percent or less; the rate declined 2 percent for American Indian women and rose 3 percent for API women. State-specific total fertility rates for 1999 are discussed in the next section.

Births and birth rates by State

Birth data by race and by Hispanic origin for 1999 are shown in tables 10–12 for the 50 States and the District of Columbia, and Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Northern Marianas. The American Indian, Asian or Pacific Islander (API), and Hispanic populations (and Hispanic subgroups) are highly concentrated geographically.

Increases and declines in the **number of births** were fairly evenly divided among the 50 States and the District of Columbia, and were generally 2 percent or less. The number of births rose 4 percent in Arizona, Colorado, and Georgia and fell 3 to 4 percent in Hawaii, New Hampshire, and North Dakota. Births fell 6 to 7 percent in the Virgin Islands, Guam, and the Northern Marianas and rose 3 percent in American Samoa.

Crude birth rates by State ranged from 11 births per 1,000 total population (Maine and Vermont) to 22 per 1,000 (Utah) (table 10). Birth rates increased in 14 States, declined in 29 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and the Northern Marianas, and were unchanged in 7 States and American Samoa. Changes were no greater than 2 percent in most States, and were not significant in 35 of the States and the District of Columbia. A statistically significant increase of 4 percent was recorded for South Dakota, while a significant decrease of 4 percent was found for New Hampshire.

Fertility rates per 1,000 women aged 15–44 years ranged from a low of 49 (Maine and Vermont) to a high of 93 (Utah) (table 10). Rates increased in 34 States, the Virgin Islands, and American Samoa, declined in 13 States, the District of Columbia, Puerto Rico, Guam, and the Northern Marianas; the rate was unchanged in three States. Changes in most States were no more than 2 percent and were not statistically significant in 31 States, the District of Columbia, the Virgin Islands, and American Samoa. Significant increases of 4 percent each were reported for Colorado and South Dakota.

State-specific **total fertility rates** (TFR’s) for 1999 are shown in table 10. These rates provide a summary measure of lifetime fertility at the State level; rates for 1980, 1990, and 1996–98 have been published (17–21). Rates by State for 1999 vary substantially, from a low of 1,570.0 (or 1.57 births per woman) for Vermont to a high of 2,745.5 (2.75 births per woman) for Utah. Differences in the TFR and changes between 1998 and 1999 by State are quite similar to those in the general fertility rate.

Birth rates for teenagers

Birth rates for teenagers by age group and State are shown for 1999 in table 10 and table B. Rates per 1,000 women aged 15–19 years ranged by State from 24.0 (New Hampshire) to 72.5 (Mississippi). The highest rate was reported for Guam, 96.6. Birth rates for teenagers have been declining in the United States since 1991. Teenage birth rates were lower in 1999 than in 1998 in all but seven States and American Samoa. However, the overall trend for the 1990’s was downward: Rates for 1999 were lower than for 1991 in all States, the District of Columbia, Puerto Rico, and the Virgin Islands; declines were statistically significant in all States, the District of Columbia, and the Virgin Islands. There was a nonsignificant increase in Guam (table B). Declines exceeded 30.0 percent in 5 States, and exceeded 25.0 percent in 9 States, the District of Columbia, and the Virgin Islands. More detailed information on current trends and variations in State-specific teenage birth rates by age, race, and Hispanic origin is presented in a recent report (7).

Sex ratio

The relative number of births by sex is important because it affects population change. There were 2,026,854 male live births in 1999 compared with 1,932,563 female live births yielding a sex ratio at birth of 1,049 males per 1,000 females, compared with 1,047 in 1998 (tables 13 and 14). The annual sex ratio has changed very little over the last 50 years. Nevertheless, substantial differences exist in the sex ratios by race and ethnic group (22). Similar to previous years, Asian or Pacific Islander mothers, as a group, had the highest sex ratio (1,064). The sex ratios for the Asian or Pacific Islander subgroups, excluding Hawaiian, exceeded 1,060. The sex ratio for Hispanic mothers (1,041), as a group, was intermediate between non-Hispanic white mothers (1,055) and non-Hispanic black mothers (1,032). Finally, American Indian mothers had the lowest sex ratio (1,029).

Month of birth

In 1999 August was the month with the most frequent occurrence of births while February was the month with the least frequent occurrence of births (table 15). The average number of births per month was 329,951. Standardizing the number of births for the number of days of the month, September had the highest average number of births per month. January had the lowest average number of births per month.

The observed monthly birth rates for 7 months of 1999 were below the rates for the same months in 1998. For 3 months, the birth rates were above those of the previous year. When seasonal variation is filtered from the monthly birth and fertility rates, an estimate of the underlying trends in these rates is obtained. The seasonally adjusted birth rates for 6 months were lower in 1999 than for the same months in 1998. Of these, December had the lowest seasonally adjusted birth rate in at least 4 years. As in 1998, the seasonally adjusted birth rates for January, May, and July were the lowest since 1976.

Table B. Birth rates for teenagers 15–19 years by State, 1991 and 1999, and percent change, 1991–99: United States and each State and territory

[Birth rates per 1,000 estimated female population aged 15–19 years in each area]

State	1991	1999	Percent change, 1991–99	State	1991	1999	Percent change, 1991–99
United States ¹	62.1	49.6	-20.1	Nebraska	42.4	37.0	-12.7
Alabama	73.9	62.8	-15.0	Nevada	75.3	64.1	-14.9
Alaska	65.4	41.8	-36.1	New Hampshire	33.3	24.0	-27.9
Arizona	80.7	69.6	-13.8	New Jersey	41.6	32.8	-21.2
Arkansas	79.8	68.1	-14.7	New Mexico	79.8	67.4	-15.5
California	74.7	50.7	-32.1	New York	46.0	37.0	-19.6
Colorado	58.2	48.4	-16.8	North Carolina	70.5	59.5	-15.6
Connecticut	40.4	33.3	-17.6	North Dakota	35.6	27.7	-22.2
Delaware	61.1	54.3	-11.1	Ohio	60.5	46.0	-24.0
District of Columbia	114.4	83.5	-27.0	Oklahoma	72.1	60.5	-16.1
Florida	68.8	53.5	-22.2	Oregon	54.9	46.5	-15.3
Georgia	76.3	65.1	-14.7	Pennsylvania	46.9	36.2	-22.8
Hawaii	58.7	43.8	-25.4	Rhode Island	45.4	38.2	-15.9
Idaho	53.9	43.7	-18.9	South Carolina	72.9	60.8	-16.6
Illinois	64.8	51.1	-21.1	South Dakota	47.5	37.6	-20.8
Indiana	60.5	51.6	-14.7	Tennessee	75.2	62.7	-16.6
Iowa	42.6	35.8	-16.0	Texas	78.9	70.1	-11.2
Kansas	55.4	47.4	-14.4	Utah	48.2	40.2	-16.6
Kentucky	68.9	56.4	-18.1	Vermont	39.2	25.7	-34.4
Louisiana	76.1	62.8	-17.5	Virginia	53.5	42.7	-20.2
Maine	43.5	29.8	-31.5	Washington	53.7	40.1	-25.3
Maryland	54.3	42.6	-21.5	West Virginia	57.8	47.9	-17.1
Massachusetts	37.8	28.7	-24.1	Wisconsin	43.7	35.7	-18.3
Michigan	59.0	40.5	-31.4	Wyoming	54.2	40.4	-25.5
Minnesota	37.3	30.0	-19.6	Puerto Rico	72.4	72.0	-0.6**
Mississippi	85.6	72.5	-15.3	Virgin Islands	77.9	55.2	-29.1
Missouri	64.5	49.6	-23.1	Guam	95.7	96.6	0.9**
Montana	46.7	35.1	-24.8	American Samoa	---	46.4	---
				Northern Marianas	---	62.0	---

** Not significant at $p < .05$.

--- Data not available.

¹Excludes data for the territories.

Day of the week of birth

The average number of births on any given day in 1999 was 10,848 (table 16). However, there was considerable variation in the number of births by day of the week. For the most frequent day of birth, Tuesday, the average was 12,424 while for the least frequent day, Sunday, the average was 7,731.

Variation in the daily pattern of births can also be measured by an index of occurrence. The index is defined as the ratio of the average number of births for a particular day of the week to the average daily number of births for the year with the base set at 100. In 1999 the index for Sunday was 71.3, an indication that there were 28.7 percent fewer births on Sundays than the daily average. The index for Saturday was 79.8. As in past years, Tuesdays had the highest index in 1999, 114.5.

A weekend deficit is apparent for vaginal and cesarean deliveries, but is far greater for cesarean deliveries, particularly repeat cesareans. In 1999 the Sunday index for vaginal births was 76.6, compared with 62.3 for primary cesareans, and 36.4 for repeat cesareans.

Births to unmarried women

The birth rate for unmarried women rose very slightly in 1999 to 44.4 births per 1,000 unmarried women aged 15–44 years, compared with 44.3 in 1998; the 1999 rate was still 5 percent lower than its highest level, 46.9 in 1994. The number of births to

unmarried women increased 1 percent to 1,308,560 in 1999. Most of the 4-percent increase in the number since 1997 is due to the concurrent 3-percent growth in the population of unmarried women (23). The percent of all births occurring to unmarried women rose to 33.0 in 1999 from 32.8 percent in 1998. (See tables C, 17, and 19.)

There were no changes in 1999 in the procedures for reporting the mother's marital status, a factor that affected trends earlier in the decade. Details of earlier changes in reporting practices are described in the Technical notes and elsewhere (24). In 1999 all States except for Michigan and New York reported the mother's marital status through a direct question on the birth certificate or in the electronic birth registration process. Michigan and New York inferred the mother's marital status on the basis of other information on the birth certificate; see Technical notes.

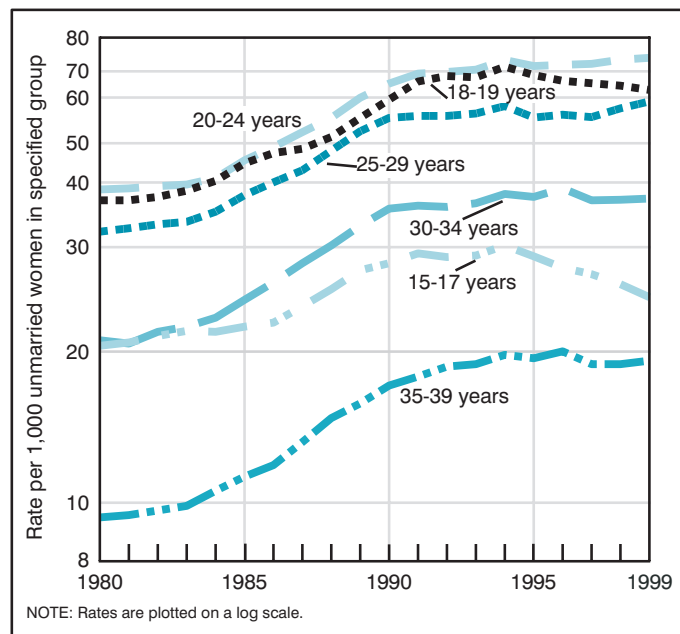
Birth rates for unmarried women vary considerably by race and Hispanic origin. In 1999 the rates per 1,000 unmarried women were 27.9 per 1,000 for non-Hispanic white women, 71.5 for black women, and 93.4 for Hispanic women. The birth rate for unmarried black women has declined steadily since 1989 (90.7), by 21 percent overall; the 1999 rate is at its lowest point since 1969 when data for black women became available (24). The birth rate for unmarried non-Hispanic white women was essentially stable in 1999, while the rate for Hispanic women rose 4 percent.

Table C. Number, rate, and percent of births to unmarried women, and birth rate for married women: United States, 1980 and 1985–99

Year	Births to unmarried women			Birth rate for married women ³
	Number	Rate ¹	Percent ²	
1999	1,308,560	44.4	33.0	86.5
1998	1,293,567	44.3	32.8	85.7
1997	1,257,444	44.0	32.4	84.3
1996	1,260,306	44.8	32.4	83.7
1995	1,253,976	45.1	32.2	83.7
1994	1,289,592	46.9	32.6	83.8
1993	1,240,172	45.3	31.0	86.8
1992	1,224,876	45.2	30.1	89.0
1991	1,213,769	45.2	29.5	89.9
1990	1,165,384	43.8	28.0	93.2
1989	1,094,169	41.6	27.1	91.9
1988	1,005,299	38.5	25.7	90.8
1987	933,013	36.0	24.5	90.0
1986	878,477	34.2	23.4	90.7
1985	828,174	32.8	22.0	93.3
1980	665,747	29.4	18.4	97.0

¹Births to unmarried women per 1,000 unmarried women aged 15–44 years.²Percent of all births to unmarried women.³Births to married women per 1,000 married women aged 15–44 years.

Birth rates for unmarried women by age continue to be highest for women aged 18–19 and 20–24 years, followed closely by women aged 25–29 years (figure 3). Rates for younger teenagers and women in age groups 30 years and over are considerably lower (tables 17 and 18). Among teenagers and women aged 20–24 years, rates for unmarried black and Hispanic women on average were 2 to 3 times the rates for non-Hispanic white women in the same age groups. Among age groups 25–29 years and over, rates were considerably higher for Hispanic women than for black or non-Hispanic white women.

**Figure 3. Birth rates for unmarried women, by age of mother: United States, 1980–99**

Age-specific birth rates for unmarried women declined only for teenagers in 1999, a pattern that has generally been observed since 1994. During the 1994–99 period, the rates for unmarried teenagers 15–17 and 18–19 years declined 20 and 10 percent, respectively. Since 1994, rates have fallen considerably for young black, non-Hispanic white, and Hispanic teenagers aged 15–17 years, by 31, 19, and 11 percent, respectively.

The birth rate for unmarried women aged 20–24 years rose about 1 percent, whereas the rate for women aged 25–29 years increased 3 percent. These increases brought the rates for women in their twenties to record highs in 1999. The birth rate for unmarried women aged 30–34 years rose less than 1 percent in 1999, while the rate for women in their late thirties increased 2 percent. The rate for women aged 40–44 years was unchanged in 1999. Increases for women in age groups 20–24 through 35–39 years were substantial for Hispanic women.

The **proportion of all births occurring to unmarried women** increased to 33.0 percent in 1999, compared with 32.8 percent in 1998. The proportions for subgroups in 1998 were 22.1 percent, non-Hispanic white; 69.1 percent, non-Hispanic black; and 42.2 percent, Hispanic; these proportions have risen since the mid 1990's for non-Hispanic white and Hispanic births, but have declined slightly for non-Hispanic black births (see tables 13, 14, 17, and 19 for 1999 data) (24).

Changes in the proportion of births to unmarried women are affected by trends in births and birth rates for married as well as unmarried women (table C). The proportion of births to unmarried women has changed relatively little since 1994 because of compensating changes in these measures as well as in the population of unmarried women (23). However, the increases in the number of unmarried women and their birth rate were larger than the increases in marital fertility. Thus, the proportion of births to unmarried women inched up again in 1999 (24).

The **numbers and proportions of births to unmarried women by State** and by race and Hispanic origin for 1999 are shown in table 19 for the 50 States and the District of Columbia, and each territory. Increases in the numbers and proportions far outpaced declines overall. The numbers increased in 36 States, and declined in 14 States and the District of Columbia. The numbers in the territories declined except for increases in Puerto Rico and American Samoa. The proportion increased in 33 States, Puerto Rico, Guam, American Samoa, and the Northern Marianas, declined in 14 States, the District of Columbia, and the Virgin Islands, and was unchanged in three States.

Age of father

The **birth rate per 1,000 men aged 15–54 years** was 50.8 in 1999 (table 20). This was slightly lower than the rate in the past year but higher than in 1997. Birth rates increased for men in age groups 25–44 years, remained stable for men in age groups 45 years and over, and decreased for men in the age groups under 25 years.

The mean age of fathers in 1999 was 29.7 years, essentially unchanged from 1997 and 1998 (tabular data not shown). In general, Asian or Pacific Islander fathers as a group were the oldest (32.6 years) with only 2 percent less than 20 years of age. The mean ages of non-Hispanic white fathers and black fathers were 30.9 and 29.0 years, respectively; 3 percent of white fathers and 7 percent of black fathers were teenagers. American Indian fathers were the youngest (28.3

years) with 8 percent less than 20 years of age. Finally, the mean age of Hispanic fathers was 28.4 years with 7 percent less than 20 years of age.

Information on age of father is often missing on birth certificates of children born to unmarried women and women less than 30 years of age (24). In 1999 age of father was not reported for 14 percent of all births but for 40 percent of all nonmarital births. In computing birth rates by age of father, births where age of father is not stated were distributed in the same proportion as births where age of father is stated within each 5-year age interval of mother. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded. The procedures for computing birth rates by age of father are described in more detail in the [Technical notes](#).

Educational attainment

The educational attainment of women who give birth is important because higher educational attainment is associated with more timely receipt of prenatal care and fewer lifestyle and health behaviors during pregnancy that are detrimental to birth outcome (discussed in later sections).

Data from the birth certificate show that the educational attainment of women who gave birth increased substantially over the last few decades, partly reflecting the increases in educational attainment of all women during the time period (25). More than three-fourths of women who gave birth in 1999 had 12 or more years of schooling (78 percent), and 24 percent had 16 or more years of formal schooling ([table 21](#)). The percent of mothers with at least 12 years of schooling generally increased over the range of age, to about 90 percent for women who gave birth in their thirties and then slightly decreased for mothers 40 years of age and over (89 percent). The percent of mothers with at least 16 years of formal schooling was highest for women 35 years of age and over (44 percent). The median educational attainment for all mothers in 1999 was 12.9 years.

In general, Japanese and Filipino mothers were the most likely to have completed 12 years of school—98 percent and 94 percent, respectively ([table 13](#)). Eighty-seven percent of non-Hispanic white mothers compared with 74 percent of non-Hispanic black mothers and 51 percent of Hispanic mothers had completed high school ([table 14](#)). Although the overall proportion of Hispanic mothers with at least 12 years of schooling was low, there was considerable variation among Hispanic subgroups, ranging from 45 percent of Mexican mothers to 88 percent of Cuban mothers. More than two-thirds of American Indian mothers had 12 or more years of schooling (68 percent). Finally, 31 percent of non-Hispanic white mothers had at least 16 years of school compared with 11 percent of non-Hispanic black mothers and 7 percent of Hispanic mothers.

Maternal lifestyle and health characteristics

Weight gain

Maternal weight gain is one of the components in the complex relationship between lifestyle characteristics of the mother and the development of the fetus (26). In 1990 the National Academy of Sciences published weight-gain guidelines that varied according to mother's body mass index (BMI), which is calculated from her

prepregnancy weight and height. The guidelines recommend that women who are underweight (low BMI) gain 28 to 40 pounds, those who are of normal weight (average BMI) gain 25 to 35 pounds, those who are overweight (high BMI), gain 15 to 25 pounds, and obese women, gain not more than 15 pounds (27).

Information on maternal weight gain is collected on the birth certificate, but information on the mother's prepregnancy weight and height is not. Therefore, it is not possible to determine whether the weight gain was within the recommendations for the mother's BMI. Differences between subgroups in maternal weight gain may reflect differences in the proportion of mothers who gained outside the recommended range but could also be the result of group differences in maternal height and prepregnancy weight.

In 1999 all States except California reported information on weight gain. Births to mothers residing in these States accounted for 87 percent of all births in the United States. In 1999, the majority of women (64 percent) gained 26 pounds or more during pregnancy ([table 22](#)). The **median weight gain** in 1999 was 30.5 pounds and it has changed very little in the last 10 years. Despite the consistency of the median weight gain, the percent of mothers who gained at either end of the weight gain spectrum was higher in 1999 than in 1989—weight gains of less than 16 pounds increased from 9.4 percent in 1989 to 11.8 percent in 1999 while weight gains of 46 pounds or more increased from 9.1 percent in 1989 to 12.0 percent in 1999.

The **weight gain of the mother during pregnancy varied considerably by period of gestation**. Mothers who had preterm infants (gestations of under 37 completed weeks) gained 3 pounds less during pregnancy (27.9 pounds) than mothers who had babies with gestations of 40 weeks and over (30.9 pounds). The median weight gain for non-Hispanic white women (30.8 pounds) was about a pound higher than for either non-Hispanic black women (30.0 pounds) or Hispanic women (29.8 pounds).

The percent of non-Hispanic black mothers who had weight gains of less than 16 pounds (17.1 percent) was much higher than for Asian or Pacific Islander (API) (9.7 percent) and non-Hispanic white mothers (10.2 percent) while American Indian mothers were intermediate (15.9 percent) ([tables 24 and 25](#)).

Within Hispanic subgroups, the percent of Mexican mothers who gained less than 16 pounds (15.0 percent) was more than twice that of Cuban mothers (7.1 percent) while the remaining groups were intermediate ([table 25](#)).

Maternal weight gain has been shown to have a positive correlation with the birthweight of the infant (28). This relationship is substantiated by the data in [table 23](#). The percent of infants with low birthweight dropped steadily with increasing weight gain through 36 to 40 pounds, from 13.9 to 5.2 percent, remained steady at 5.2 percent for women who gained 41 to 45 pounds, and then increased slightly for mothers who gained 46 pounds or more (5.5 percent). The general decline in the percent low birthweight with greater maternal weight gain is present for non-Hispanic white, non-Hispanic black, and Hispanic women regardless of the period of gestation.

Medical risk factors

Maternal medical risk factors have a major influence on pregnancy complications and infant survival (29–31). Some of these conditions require close medical supervision to prevent severe complications. Sixteen medical risk factors that can affect pregnancy outcome are separately identified on the birth certificate ([table 26](#)).

In 1999 the most frequently reported medical risk factors were **pregnancy-associated hypertension** (38.2 per 1,000 live births), **diabetes** (27.3) and **anemia** (23.2) ([table 26](#)). These have been the most frequently reported risk factors since 1990, and their rates have risen steadily. Pregnancy-associated hypertension increased by 40 percent; the rates for diabetes and anemia increased by 28 and 27 percent, respectively. The pregnancy-associated hypertension rate rose among the majority of racial and ethnic groups during the 1990's. Rates for the related hypertensive disorders, **chronic hypertension** and **eclampsia**, have been relatively stable during this decade.

Overall, and for the majority of racial and ethnic groups, the reported rate of **hydramnios/oligohydramnios** (the excess or shortage of amniotic fluid) has consistently increased each year since 1990, and has more than doubled between 1990 and 1999 (from 5.9 to 13.5 per 1,000). These conditions have been associated with diabetes (32, 33). Acute or chronic **lung disease** (e.g., asthma, tuberculosis) has exhibited an even more dramatic upward trend. Although lung disease is reported in only 1 percent of all pregnant women, the level of lung disease has more than tripled overall between 1990 and 1999 (from 3 to 11 per 1,000).

Medical risk factors during pregnancy vary greatly by **race and ethnicity** ([tables 27 and 28](#)). Since 1992, American Indian women have consistently had the highest rates of pregnancy-associated hypertension, diabetes, and anemia, comprising about 5 percent of all American Indian pregnancies for each condition. In comparison, during the same time period, only about 1 percent of Chinese mothers had pregnancy-associated hypertension or anemia. Among the Hispanic subgroups, in 1999 Cuban mothers had the lowest rates of anemia and diabetes (1 and 2 percent each, respectively).

Medical risk factor rates also often differ widely by maternal age ([table 26](#)). Anemia, for example, is more common among younger mothers (33 per 1,000 for mothers under 20 years of age compared with 18 for mothers 40 years of age and over). Older mothers, conversely, are more prone to chronic conditions such as diabetes (65 per 1,000 for mothers 40 years and over compared with 8 per 1,000 for mothers under 20 years of age). Some risk factors, however, such as pregnancy-associated hypertension, follow a U-shaped pattern, with the highest levels at the extremes of the maternal age distribution.

Rates for rarely occurring medical risk factors and for smaller population groups can vary widely from year-to-year and should be used with caution. Some of the apparent increases since 1990 may be an artifact of improved reporting. Other issues to be considered in evaluating the completeness of reporting include the diversity of the risk factors, their temporal and causal sequence in the pregnancy, and factor specific underreporting (34, 35). Medical risk factors may be incorrectly reported due to lack of uniform definitions and difficulty in interpreting data from medical records (36).

Tobacco use during pregnancy

Smoking during pregnancy declined again to 12.6 percent of women giving birth in 1999, according to birth certificate data. This was a 2-percent drop compared with 1998 (12.9 percent), and a 35-percent reduction since 1989 (19.5 percent), when this information first became available on the birth certificate (21, 37). Beginning in 1999, data on whether or not the mother smoked during pregnancy is available for all States and the District of Columbia, except for California and South Dakota. This reporting area comprised 87

percent of U.S. births in 1999. (See [tables 24, 25, and 29–32](#).) Additional information on the reporting areas is included in the [Technical notes](#).

Some studies have suggested that smoking may be underreported on birth certificates due to a variety of factors, including the lack of a specific time reference for smoking status, variations in the source of this information for each birth, and the growing stigma associated with smoking (37–40). Nevertheless, trends in maternal smoking based on the birth certificate are generally consistent with those reported for recent years from the National Survey of Family Growth and more recently from CDC's Behavioral Risk Factor Surveillance Summary, and variations in smoking among population subgroups found in birth certificate data have been corroborated in other studies (13, 41–43).

Tobacco use during pregnancy is associated with a variety of adverse outcomes, including increased risk of miscarriage, intrauterine growth retardation, low birthweight, and infant mortality, as well as negative consequences for child health and development (44–47).

Maternal smoking declined or was unchanged in all racial and Hispanic origin groups. As in previous years, rates were highest for non-Hispanic white, American Indian, and Hawaiian women, and lowest for Mexican, Cuban, Central and South American, and Asian or Pacific Islander women (API) (except Hawaiian) ([tables 24 and 25](#)). The generally very low smoking rates found for Mexican, Central and South American, Chinese, and Filipino women from birth certificate data have been confirmed elsewhere (42). Smoking rates tend to be dramatically higher for women born in the 50 States and the District of Columbia than for women born outside these areas, a pattern that has been described in other studies ([tables 24 and 25](#)) (48, 49).

Maternal smoking among teenagers rose about 2 percent overall, the fifth consecutive year of increase, with all of the 1998–99 increase confined to older teenagers (up from 19.2 to 19.5 percent) ([figure 4](#)) (37). Between 1994 and 1996, smoking rates rose for younger teenagers 15–17 years as well as older teenagers. Since 1996, rates for young teenagers have been stable, whereas rates for older teenagers have risen 7 percent.

Smoking rates increased among non-Hispanic white and black teenagers 15–19 years in 1999; the rate for Hispanic teenagers declined to 4.6 percent. The smoking rate for non-Hispanic black teenagers was 7.2 percent in 1999, compared with 5.0 percent in 1994 when the rate began to rise (see [table 30](#) for 1999 data.) The rate for non-Hispanic white teenagers increased to 30.1 percent; their rates were 4 to 5 times the rates for non-Hispanic black teenagers. Non-Hispanic white women aged 18–19 years had the highest smoking rate of any group, 30.7 percent, but the rate for younger non-Hispanic white teenagers was nearly as high, 28.7 percent ([table 30](#)).

The increase over the period 1994–99 in smoking among teenagers, especially older teenagers, has begun to impact rates for women in their early twenties, as older teenagers have turned 20 years and over. **Smoking rates for women aged 20–24 years increased in 1999** for the first time since this information first became available in 1989. Overall, the rate rose 1 percent to 16.7 percent, with increases measured for non-Hispanic white and black women, and Puerto Rican and Cuban women. The rate declined for Mexican women.

Smoking during pregnancy generally declined for women in age groups 25–54 years. Patterns of smoking rates and trends by age, race, and Hispanic origin are described in detail elsewhere (37).

Among smokers, **the proportion smoking at least half a pack of cigarettes daily** has declined steadily in recent years—to 30 percent

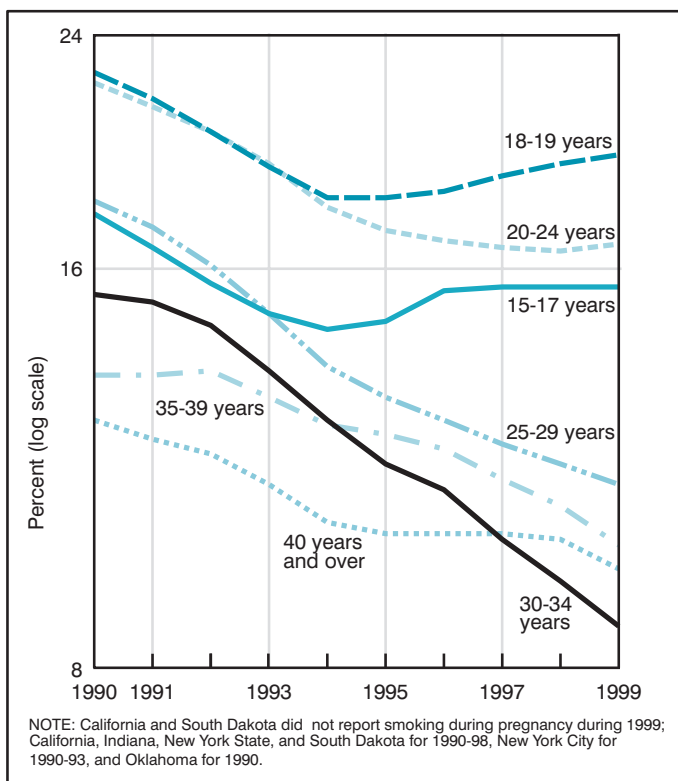


Figure 4. Percent of mothers who smoked during pregnancy by age: Total reporting areas, 1990-99

in 1999 (compared with 42 percent in 1990) (37). Information on the number of cigarettes smoked daily was reported in a comparable manner on the birth certificates of 46 States, the District of Columbia and New York City in 1999, comprising 81 percent of U.S. births. Non-Hispanic white mothers and older mothers are more likely than other mothers to smoke half a pack or more (tables 29 and 31).

Smoking rates by maternal educational attainment continue to be highest for women with 9-11 years of education, 26 percent in 1999, and lowest for women with 4 years or more of college, 2 percent (table 31). Even among women aged 20 years and over, smoking rates were highest for mothers who attended but did not graduate from high school—29 percent overall and 48 percent of non-Hispanic white women (tabular data not shown).

Babies born to mothers who smoke during pregnancy are at greatly elevated risk of low birthweight (LBW), a finding documented in birth certificate data as well as in numerous other studies (44, 51). In 1999, 12.1 percent of infants born to smokers weighed less than 2,500 grams (5 lb 8 oz) compared with 7.2 percent of births to nonsmokers (table 32). This substantial differential is found for every race and Hispanic origin group. Heavier smoking heightens the LBW risk, although LBW is elevated even among babies born to the lightest smokers (1 to 5 cigarettes daily), 11.1 percent (tabular data not shown) (50). Advancing maternal age exacerbates the risk, probably a consequence of the much greater cigarette consumption among older women (table 29).

Alcohol use during pregnancy

Pregnancy and birth outcome can be jeopardized by maternal alcohol use during pregnancy. Even low to moderate alcohol use has

been shown to jeopardize birth outcome, independent of other risk factors such as tobacco use and other maternal risk factors (52, 53). All States except California and South Dakota included items on alcohol use on their birth certificates in 1999. This reporting area accounted for 87 percent of U.S. births.

Alcohol use during pregnancy is substantially underreported on the birth certificate according to studies of birth certificate reporting and related surveys of pregnant women (34, 41). According to birth certificate data, alcohol use declined again in 1999 to just 1.0 percent of mothers reporting any alcohol use compared with 1.1 percent in 1998 and 4.1 percent in 1989, the first year this information was reported on the birth certificates (see tables 24 and 25 for 1999 data). A study based on an analysis of responses by about 1,300 pregnant women in the Centers for Disease Control and Prevention's Behavioral Risk Factor Surveillance System found that about 15 percent of women used alcohol during pregnancy in 1995. The researchers also reported that although alcohol use declined from 1988 (23 percent) to 1992 (10 percent), there was a statistically significant rise to 15 percent in 1995 (54).

The nature of the birth certificate questions on alcohol use apparently has contributed to the underreporting because the questions focus on the number of drinks per week, whereas other studies inquire about drinks per month (54). Women who drink, but less than one drink per week, may report no alcohol use for the birth certificate question. The stigma associated with alcohol use also contributes to the underreporting (26, 54).

Medical services utilization

Prenatal care

The percent of women who began **prenatal care in the first trimester** of pregnancy rose slightly for 1998-99, from 82.8 to 83.2. Following a decade of little progress, the proportion of women entering care within the first 3 months of pregnancy has risen each year in the 1990's. (See table D and tables 33-35 for 1999 data.) In 1999, 3.8 percent of all mothers received late or no care ("late care" is prenatal care beginning in the third trimester), compared with

Table D. First trimester prenatal care by race and Hispanic origin of mother: United States, 1980, 1985, 1990-99

Year	All races ¹	Non-Hispanic		
		White	Black	Hispanic ²
1999	83.2	88.4	74.1	74.4
1998	82.8	87.9	73.3	74.3
1997	82.5	87.9	72.3	73.7
1996	81.9	87.4	71.5	72.2
1995	81.3	87.1	70.4	70.8
1994	80.2	86.5	68.3	68.9
1993	78.9	85.6	66.1	66.6
1992	77.7	84.9	64.0	64.2
1991	76.2	83.7	61.9	61.0
1990	75.8	83.3	60.7	60.2
1989	75.5	82.7	59.9	59.5
1985	76.2	---	---	---
1980	76.3	---	---	---

--- Data not available.

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

²Includes all persons of Hispanic origin of any race.

3.9 percent in 1998. The percent of women with late or no care has fallen from 6.1 percent since 1990. The benefits of prenatal care to pregnancy outcome are difficult to measure (55, 56), but appropriate care can promote healthier pregnancies by managing preexisting medical conditions, providing health behavior advice, and assessing the risk of poor pregnancy outcome (57).

Small gains in timely care were reported between 1998 and 1999 for the three largest racial and ethnic groups: non-Hispanic white (from 87.9 to 88.4 percent), non-Hispanic black (from 73.3 to 74.1 percent), and Hispanic women (from 74.3 to 74.4 percent), and for most subgroups. Whereas substantial improvements in care have been observed among all groups during the 1990's, improvement has been most pronounced for groups with lower levels of timely care. Between 1990 and 1999, levels of first trimester care rose by 20 percent or more among non-Hispanic black, American Indian, Hawaiian, Mexican, Puerto Rican, and Central and South American women. (See tables E, 24, and 25.) The larger gains for these groups have resulted in some narrowing of the prenatal care gap, but large differences among groups persist.

Of the 50 States and the District of Columbia, women living in New England had the highest levels of prenatal care utilization for 1999. At least 87 percent of women who gave birth in Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont received care in the first trimester; less than 3 percent of New England residents received late or no care (table 34).

The Adequacy of Prenatal Care Utilization Index (APNCU) is an alternative measure of prenatal care utilization developed to adjust for some of the weaknesses of the month care began and the Kessner Index (58, 59). The APNCU is based on the month that prenatal care began and the number of prenatal visits, adjusting for gestational age. For 1999 the APNCU shows an appreciable rise in the percent of women with intensive use of care (women for whom the number of visits exceeded the American College of Obstetricians and Gynecologists' recommendations by a ratio of observed to expected visits of at least 110 percent) from 31.0 to 31.6 percent. All other levels of care, that is, adequate, intermediate and inadequate, were down slightly (table F). For 1990-99, the largest changes in utilization were for intensive use of care (up 28 percent) and inadequate care (down 33 percent).

Table F. Adequacy of Prenatal Care Utilization Index: United States, 1990, 1995-99

	Intensive use	Adequate	Intermediate	Inadequate
1999	31.6	43.1	13.6	11.7
1998	31.0	43.3	13.8	11.9
1997	30.7	43.3	14.0	12.0
1996	29.3	43.6	14.7	12.4
1995	28.8	43.7	14.7	12.8
1990	24.6	42.3	15.7	17.4

NOTE: See reference 58 for information on calculation of this measure; also see Technical notes of this report.

Obstetric procedures

Six specific obstetric procedures are reported on the birth certificate. Rates of four of these procedures have been rising steadily every year since 1989 (60, 61) (figure 5). In 1999 the most prevalent procedure, electronic fetal monitoring, was reported for nearly 3.3 million births, or 84 percent of all live births in the United States (table 36), a 15-percent increase over 1990. It has been shown that use of obstetric procedures may be underreported on the birth certificate (62-64).

At least 66 percent of mothers who had live births in 1999 received ultrasound, a 26-percent increase since 1990. The overall rates per 1,000 live births of stimulation of labor and induction of labor in 1999 were 179 (17.9 percent, a 58-percent increase since 1990) and 198 (19.8 percent, twice the 1990 levels), respectively (figure 6). As would be expected, induction rates increase with advancing gestational age, but rates have been rising for all gestation groups.

The overall rate for tocolysis has been slowly increasing, from 1.6 percent in 1990 to 2.4 percent in 1999 (a 50-percent increase). Tocolytics (agents that decrease uterine activity) are used in the management of preterm labor (33).

The overall rate for amniocentesis was 26.5 per 1,000 births (2.7 percent) in 1999, down 21 percent from 1990 (figure 5). Use of amniocentesis rises with increasing maternal age. Since 1990, amniocentesis rates have generally decreased for all age groups.

Table E. Percent of women with care beginning in the first trimester of pregnancy by specified race and Hispanic origin of mother: United States, 1990 and 1999

	Percent first trimester care		Percent change
	1999	1990	1990-99
Total, all races ¹	83.2	75.8	10
Cuban	91.4	84.8	8
Japanese	90.7	87.0	4
Chinese	88.5	81.3	9
Non-Hispanic white	88.4	83.3	6
Filipino	84.2	77.1	9
Hawaiian	79.6	65.8	21
Puerto Rican	77.7	63.5	22
Central and South American	77.6	61.5	26
Non-Hispanic black	74.1	60.7	22
Mexican	73.1	57.8	26
American Indian	69.5	57.9	20

¹Includes births to race/Hispanic origin groups not shown separately.

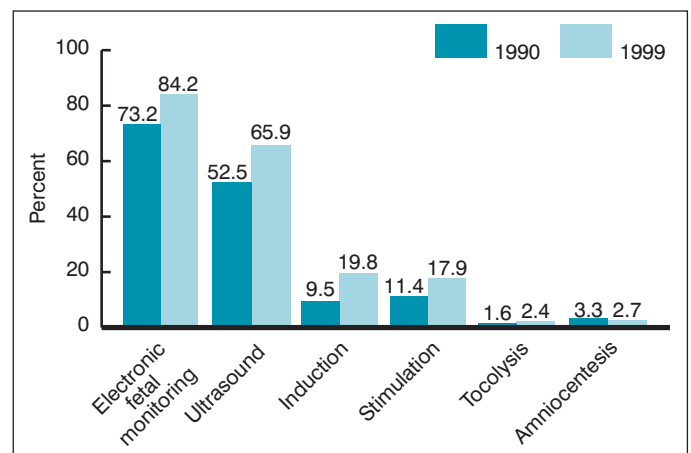


Figure 5. Percent of births with selected obstetric procedures: United States, 1990 and 1999

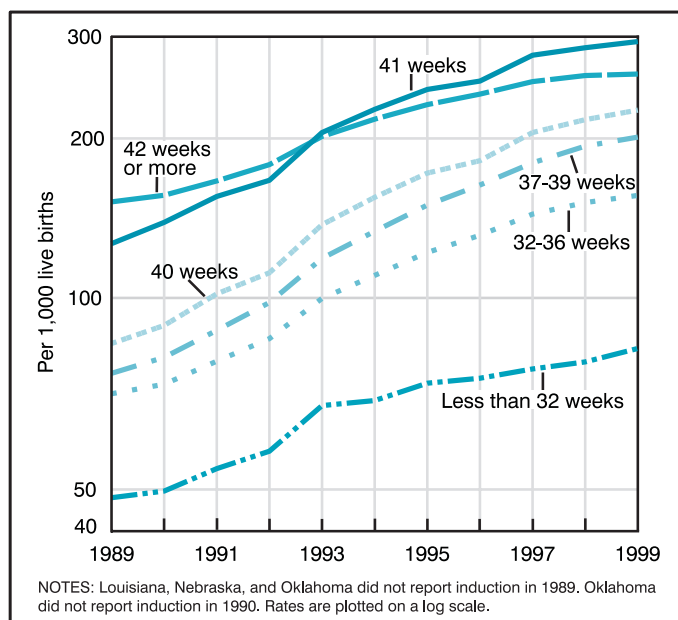


Figure 6. Rates of induction of labor by length of gestation in weeks: United States, 1989–99

Complications of labor and/or delivery

Of the 15 complications of labor and/or delivery reported on the birth certificate, the five most frequently reported in 1999 were meconium, moderate/heavy (55 per 1,000 live births), fetal distress (40 per 1,000), breech/malpresentation (39 per 1,000), dysfunctional labor (27 per 1,000), and premature rupture of membrane (PROM) (26 per 1,000) (table 37). It has been shown that levels of complications of pregnancy may be underreported on the birth certificate (62–64).

Although infrequent, placental complications such as abruptio placenta and placenta previa are serious events. Abruptio placenta occurred in approximately 22,000 births (6 per 1,000). Although the exact etiology is unknown, major risk factors include prior abruptio placenta and hypertension (33,65). Placenta previa occurred in approximately 12,500 births (3 per 1,000). Risk factors for placenta previa include increasing age and multiparity (33).

Rates for all complications varied among the major racial/ethnic subgroups (tables 27 and 28). Non-Hispanic black mothers had the highest rates for meconium (76 per 1,000) and fetal distress (51 per 1,000). Non-Hispanic white mothers had the highest rate of breech/malpresentation (44 per 1,000). American Indian and Cuban mothers had the highest rates of dysfunctional labor (36 and 40 per 1,000, respectively). PROM was reported most frequently for American Indian mothers (39 per 1,000). Mexican mothers had the lowest complication rates overall.

Complication rates generally varied by age, and this was notable for three of the most frequently reported complications (table 37). The highest rates of meconium, fetal distress, and PROM were reported in the youngest and oldest mothers (under 20 years and above 34 years of age).

Attendant at birth and place of delivery

More than 9 out of 10 births in 1999 (91.7 percent) were attended by a physician in a hospital, making this arrangement by far

the most typical (table 38). However, the percent of births with this arrangement was slightly lower in 1999 than in 1998 (91.9 percent) and has declined from 98.4 percent in 1975. For physician-attended births, 4.4 percent were by **doctors of osteopathy (DO's)** while the remaining were attended by **doctors of medicine (MD's)**. Although small, the number and percent of births attended by DO's has grown steadily since 1989, the first year data on DO's were available from the birth certificate. The percent of births attended by **midwives** increased sharply between 1975 (1.0 percent) and 1999 (7.7 percent). A recent report found that nearly all of the growth in midwife-attended births was for those in hospitals (61). About 95 percent of midwife-attended births in 1999 were by **certified nurse midwives (CNM's)**.

About 99 percent of births in 1999 were delivered in hospitals, virtually unchanged in the last several decades. The majority of out-of-hospital births were in a residence (65 percent) while 27 percent were in a **freestanding birthing center**.

About 92 percent of births to non-Hispanic white and black women were attended by a physician in a hospital compared with 90 percent of births to Hispanic women. Hispanic women were more likely to have midwife-attended hospital births (9 percent) than were either non-Hispanic white or black women (6 and 7 percent, respectively).

Method of delivery

The **rate of cesarean delivery** increased 4 percent between 1998 and 1999 (from 21.2 per 100 live births to 22.0) and was 6 percent higher than the recent low point in 1996 (20.7). This was the third consecutive year that the rate increased after falling each year during 1989–96 (table G and table 39). The rate in 1999 was still 4 percent lower than the rate of 22.8 in 1989, the first year this information was available on the birth certificate. The **primary cesarean rate** in 1999 (15.5 per 100 live births to women who had no previous cesarean) was 4 percent higher than in 1998 (14.9) and 6 percent higher than in 1997 (14.6). The rate had declined each year between 1989 and 1996 and remained steady between 1996 and 1997. The primary rate in 1999 was 4 percent lower than in 1989 (16.1).

Table G. Total and primary cesarean rates and vaginal births after previous cesarean delivery rates: United States, 1989–99

Year	Cesarean rate		
	Total ¹	Primary ²	VBAC rate ³
1999	22.0	15.5	23.4
1998	21.2	14.9	26.3
1997	20.8	14.6	27.4
1996	20.7	14.6	28.3
1995	20.8	14.7	27.5
1994	21.2	14.9	26.3
1993	21.8	15.3	24.3
1992	22.3	15.6	22.6
1991	22.6	15.9	21.3
1990	22.7	16.0	19.9
1989	22.8	16.1	18.9

¹Percent of all live births by cesarean delivery.

²Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

³Number of vaginal births after previous cesarean (VBAC) delivery per 100 live births to women with a previous cesarean delivery.

The rate of **vaginal birth after previous cesarean delivery (VBAC)** declined 11 percent between 1998 and 1999—from 26.3 per 100 women with a previous cesarean to 23.4. The VBAC rate has declined 17 percent between 1996 and 1999 after increasing by 50 percent between 1989 and 1996 (from 18.9 to 28.3).

Overall cesarean rates increased steadily by age of the mother and were more than twice as high for mothers 40–54 years of age (34.7) than for teenagers (15.0) ([table 40](#)). Primary cesarean rates increased with additional age after age 24 years, to 24.6 for women 40–54 years of age. VBAC rates declined with increasing age—28.1 percent of teenagers who had a previous cesarean had a VBAC delivery compared with 18.2 percent of mothers 40–54 years of age. All age groups experienced increases in their total cesarean rate between 1998 and 1999 with mothers 30 years of age and over having slightly greater percent increases than younger women. All age groups experienced declines in VBAC rates between 1998 and 1999.

Non-Hispanic black women had a higher cesarean rate in 1999 (23.2) than either non-Hispanic white women (22.1) or Hispanic women (21.2). The percent increase between 1998 and 1999 was similar for non-Hispanic white and black women, about 4 percent each, compared with a 3-percent increase for Hispanic women. The primary cesarean rate for non-Hispanic black women (16.5) was higher than the rate for non-Hispanic white women (15.7) and Hispanic women (14.0). All groups experienced increases in their primary cesarean rate from 1998 to 1999, but the percent increase for non-Hispanic white women (4 percent) was slightly higher than for non-Hispanic black and Hispanic women (3 percent each). The VBAC rate in 1999 was highest for non-Hispanic white women (24.1), lowest for Hispanic women (20.3) and intermediate for non-Hispanic black women (23.2). The VBAC rate for each group declined between 1998 and 1999 with non-Hispanic white women having a greater percent decline (12 percent) than for the other groups (between 9 and 10 percent each).

American Indian and Asian or Pacific Islander (API) mothers had lower cesarean rates (18.9 and 20.2, respectively) than either non-Hispanic white or black mothers ([tables 24 and 25](#)). With the exception of Filipino mothers, all specified API categories had lower rates of cesarean delivery than either non-Hispanic white or black mothers. The rate of cesarean delivery varied between 20.6 and 23.1 for all Hispanic subgroups except for Cuban mothers whose rate was much higher (33.2) ([table 25](#)).

There was considerable variation in cesarean rates by State with the highest rate reported for Mississippi (27.3); the rate for Puerto Rico was 37.8 ([table 41](#)). (The rate for Hawaii, apparently the lowest at 13.8, is believed to be substantially underreported; see [Technical notes](#).) There was also considerable variation in VBAC rates by State, from 36.3 in New Hampshire to 11.3 in Louisiana.

All of the selected medical risk factors in [table 42](#) were associated with overall cesarean rates that were higher than the national average. Cesarean rates for the medical risk factors ranged from 22.2 for mothers with anemia to 49.1 for mothers with eclampsia. Certain complications of labor and/or delivery are also associated with high cesarean rates. Nearly all births with cephalopelvic disproportion were cesarean deliveries (96.4) while the cesarean rates for breech/malpresentation (84.5) and placenta previa (81.7) were also very high.

The percent of births that were delivered by either forceps or vacuum extraction was 7.4 percent in 1999, 22 percent lower than the

peak of 9.5 percent in 1994 (61). Births delivered by forceps declined 58 percent between 1989 and 1999, from 5.5 to 2.3 percent. Births delivered by vacuum extraction increased from 3.5 percent in 1989 to 6.2 percent in 1996 and 1997, a 77-percent increase. However, births delivered by vacuum extraction fell 18 percent between 1997 and 1999, to 5.1 percent. When only vaginal births are considered, the percent delivered by vacuum extraction fell 17 percent between 1997 (7.8 percent) and 1999 (6.5 percent) (tabular data not shown).

Infant health characteristics

Period of gestation

The **preterm birth rate** rose again in 1999 to 11.8 percent, from 11.6 percent in 1998. The proportion of infants born preterm (less than 37 completed weeks of gestation) has risen quite steadily during the 1990's from 10.6 percent, or by 11 percent. All of the current year rise, and most of that for the decade, has been among moderately preterm births (32–36 weeks). The rate of very preterm birth (less than 32 weeks) was stable at 1.96 percent for 1998–99 and has fluctuated only moderately since 1990. (See [tables 24, 25, 43, and 44](#).)

More than 90 percent of all neonatal deaths occur among infants born preterm; more than three-fourths of these deaths occur among those born at fewer than 32 weeks of gestation (66). Preterm newborns are also more likely to be neurologically impaired than infants born at longer gestations (67). Preterm birth results from spontaneous preterm labor, premature rupture of the membranes (PROM), or medical induction (these categories are not mutually exclusive). The rate of PROM appears to have declined slightly, but medically induced preterm births have more than doubled during the 1990's (labor may be induced preterm when the mother's or the infant's health is presumed to be at risk). (See section on Obstetric procedures and [figures 5 and 6](#).) A recent study concluded that substantial future reductions in preterm birth are unlikely until the mechanisms leading to preterm birth are better understood (67).

The incidence of preterm birth among non-Hispanic white infants climbed to 10.5 percent for 1999, compared with 10.2 percent in 1998, and 9.9 percent in 1997. Over the decade, the non-Hispanic white preterm rate has risen 24 percent (from 8.5 percent). Although this increase is influenced by the rise in the rate of multiple births (multiple births are about 6 times more likely to be born preterm than singleton births), preterm rates for singleton births have also been on the ascent (68) ([figure 7](#)). Since 1990, the non-Hispanic white singleton preterm rate has risen from 7.5 to 8.8 percent. Again, most of the rise was among moderately preterm births; the very preterm rate fluctuated only from 1.11 to 1.16 percent.

The preterm birth rate for black non-Hispanic births was unchanged for 1997–99 at 17.6 percent. This rate has declined from a high of 19.0 percent reported for 1991. Although still substantially higher than that for non-Hispanic white births, the preterm and very preterm rates for singleton non-Hispanic black births have been trending downward, albeit slowly ([figure 7](#)). The 1999 preterm rate for non-Hispanic black singleton births was 16.1 compared with 16.2 percent the previous year, and 17.9 percent in 1990. More fortuitously, very preterm births were down from 4.2 to 3.6 percent for 1990–99.

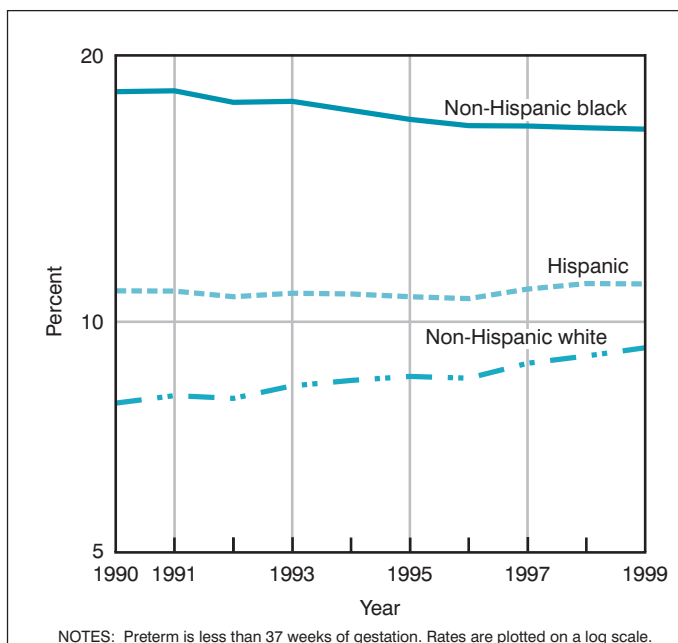


Figure 7. Rate of singleton preterm birth by race and Hispanic origin of mother: United States, 1990–99

The proportion of **Hispanic** preterm births was unchanged from the previous year at 11.4 percent. Over the decade, preterm singleton Hispanic births have risen slightly from 10.3 to 10.5 percent. There has been, however, essentially no change in the Hispanic rate of singleton very preterm births (1.5 percent in 1990 and 1999). Preterm rates for the Hispanic subgroups (all pluralities) ranged from 11.1 (Mexican) to 13.7 percent (Puerto Rican) for the current year. Rates for all of the subgroups increased between 1990 and 1999. (See [table 25](#) for 1999 data.)

The preterm birth rate for American Indians was 12.9 percent for 1999. Among the Asian or Pacific Islander subgroups, rates ranged from 7.6 percent for Chinese births to 12.4 percent for Filipino births ([table 24](#)). Preterm birth levels among American Indian and each Asian or Pacific Islander subgroup have also risen during the 1990's.

Birthweight

The **percent low birthweight (LBW)** (less than 2,500 grams) was 7.6 for 1999, unchanged from 1998. LBW has been climbing fairly steadily since the mid-1980's (6.8 percent in 1985 and 1986), and has risen 9 percent (from 7.0 percent) since 1990. (See [tables 43–47](#).) The **percent very low birthweight (VLBW)** (less than 1,500 grams) was 1.45 for 1999, also unchanged from the previous year. The rate of VLBW has also risen over the last two decades, from 1.15 percent in 1980, and from 1.27 percent in 1990. Low birthweight infants disproportionately suffer long-term morbidity and early death (69). Less than half of 1 percent of infants born at weights of more than 2,499 grams do not survive the first year of life, compared with about 2 percent of moderately LBW infants (1,500 to 2,499 grams), and 25 percent of VLBW infants (66).

The upward trends in LBW and VLBW of recent years have been strongly influenced by the upsurge in the multiple birth rate; twins and triplets and other higher order multiples are comprising a growing proportion of all births and tend to be born at much lower weights than

singletons (70). In 1999, 6 percent of singletons weighed less than 2,500 grams compared with 57 percent of multiples.

The youngest mothers (less than 15 years) and the oldest (45 years of age and over) are most likely to have a LBW infant. See [figure 8](#). Much of the low birthweight incidence among older mothers is associated with their greater preponderance of multiple births. (More than half of the LBW infants born to women 45 years of age and over in 1999 were born in a multiple birth.) When only singleton births are examined, women 45 years and over were less likely than the youngest mothers to bear a LBW child.

The impact of multiple births has been most pronounced for non-Hispanic white births, among whom multiple birth rates have risen the swiftest (70). Overall LBW for this group has climbed 18 percent, from 5.6 to 6.6 percent since 1990 ([table 44](#)). Although much of this rise can be attributed to the influence of multiple births, singleton LBW has also risen (from 4.6 to 4.9 percent); this increase is largely unexplained ([table H](#)).

Overall LBW among births to black mothers has declined from 13.3 to 13.1 percent between 1990 and 1999, but remains higher than levels reported for the early and mid-1980's (low of 12.6 percent). Singleton LBW for black infants however, has dropped to the lowest levels reported ([table H](#)). Notwithstanding this recent decline, singleton black infants are twice as likely as singleton white and Hispanic infants to be born LBW.

Overall and singleton LBW among Hispanic births has been comparatively stable over the decade, rising only slightly from 6.1 to 6.4 percent (all pluralities) and 5.2 to 5.3 percent (singletons only) between 1990 and 1999. Among the Hispanic subgroups, LBW levels ranged from 5.9 percent for Mexican to 9.3 percent for Puerto Rican births. (See [table 25](#).)

The incidence of low birthweight among **American Indian** infants was 7.1 percent for 1999. Among **Asian and Pacific Islander** subgroups LBW ranged from a low of 5.2 percent for Chinese to a high of 8.3 percent for Filipino births ([table 24](#)).

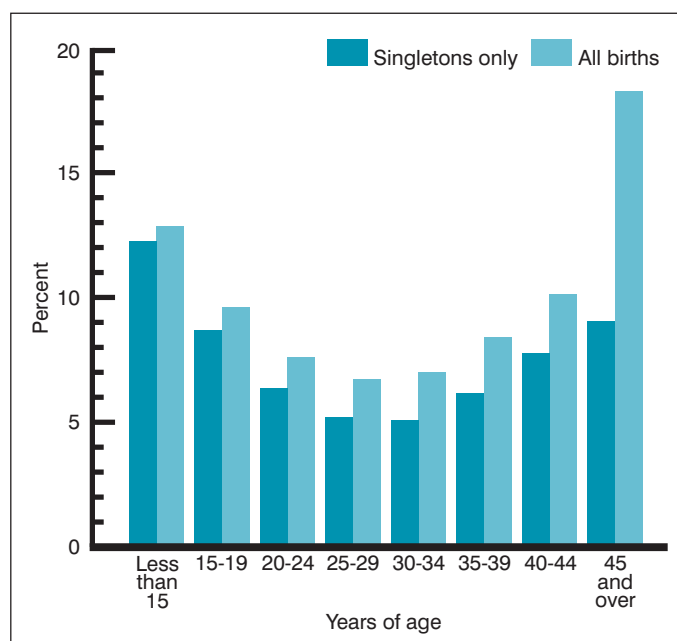


Figure 8. Percent low birthweight for singletons and for all pluralities by maternal age: United States, 1999

Table H. Percent low birthweight among singletons by race and Hispanic origin of mother: United States, 1980, 1985, and 1990–99

Year	Total	White		Black		Hispanic ¹
		Total	Non-Hispanic	Total	Non-Hispanic	
1999	6.05	5.02	4.93	11.32	11.44	5.34
1998	6.05	5.05	4.91	11.33	11.44	5.40
1997	6.08	5.02	4.95	11.37	11.46	5.43
1996	6.03	5.00	4.90	11.45	11.55	5.34
1995	6.05	4.98	4.87	11.59	11.66	5.36
1994	6.05	4.91	4.79	11.69	11.79	5.37
1993	6.05	4.83	4.70	11.81	11.90	5.34
1992 ²	5.93	4.71	4.59	11.84	11.91	5.22
1991 ²	5.99	4.74	4.61	12.09	12.15	5.29
1990 ³	5.90	4.68	4.56	11.86	11.92	5.23
1985	5.80	4.77	---	11.35	---	---
1980 ⁴	5.96	4.90	---	11.46	---	---

--- Data not available.

¹Includes persons of Hispanic origin of any race.

²Excludes data for New Hampshire, which did not require reporting of Hispanic origin of mother.

³Excludes data for New Hampshire and Oklahoma, which did not require reporting of Hispanic origin of mother.

⁴Based on 100 percent of births in selected States and a 50-percent sample of births in all other States; see Technical notes.

NOTE: Low birthweight is less than 2,500 grams or 5 lb 8 oz.

The percent **macrosomia** (birthweight of at least 4,000 grams) declined from 10.1 to 9.9 percent between 1998 and 1999 (see [tables 24, 25 and 43](#) for 1999 data). The percent of births born at higher birthweights peaked at about 11 during the 1980's, but has declined in the 1990's.

The **median birthweight** for all births for 1999 was 3,350 grams (7 pounds, 7 ounces), unchanged since 1995. The median weight for white births was 3,390 grams and for black births 3,180 grams.

Low and very low birthweight rates vary widely **by State** ([tables 46 and 47](#)). For 1999, LBW levels among non-Hispanic white births ranged from a low of 5.2 percent in Alaska and Hawaii to a high of 8.4 percent in Wyoming. Among States with at least 1,000 births to non-Hispanic black mothers, LBW rates for this group ranged from 10.2 percent in Washington State, to 16.1 percent in the District of Columbia.

Apgar score

The Apgar score, devised almost 50 years ago by Virginia Apgar, M.D., is a means of evaluating the physical condition of the newborn at 1 minute, 5 minutes, and if desired, at additional 5-minute intervals after delivery (32, 71, 72). The score is composed of measurements of five easily identifiable infant characteristics—heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each characteristic is assessed and assigned a value of 0–2, with 2 being optimum. The total score is the sum of the scores of the five components (71). A score of 0 to 3 indicates an infant in need of resuscitation; a score in the range of 4 to 6 is considered intermediate; a score of 7 or greater indicates that the neonate is in good to excellent physical condition. The **5-minute Apgar score**, especially a change in the score between 1 and 5 minutes, is a useful clinical indicator of newborn status, especially in those neonates who require resuscitation (32).

In 1999 all States except California and Texas collected information on the 5-minute Apgar score. Of the births in the reporting States

(which accounted for 78 percent of all births in the U.S.), only 1.4 percent of babies had Apgar scores that were considered low (below 7) at 5 minutes after birth ([tables 24 and 25](#)), unchanged since 1993.

In general, the variation among racial and ethnic groups in the percent of babies with low 5-minute Apgar scores was consistent with the percent of babies that were born preterm and/or low birthweight.

Abnormal conditions of the newborn

Since 1990, three of the eight specific abnormal conditions listed on the birth certificate have been most frequently reported: assisted ventilation less than 30 minutes, assisted ventilation of 30 minutes or longer, and hyaline membrane disease/respiratory distress syndrome (RDS) ([table 48](#)).

The rate for assisted ventilation less than 30 minutes was 21 per 1,000 in 1999. The rate slowly increased from the 1990 rate of 13 per 1,000 and has remained at about the current rate since 1996. The rate of assisted ventilation of 30 minutes or longer was 10 per 1,000 in 1999. The overall rate of hyaline membrane disease (RDS) was 6 per 1,000 in 1999; this condition occurs most frequently in infants of less than 28 weeks gestation (72).

Rates of the other conditions have fluctuated slightly each year of the decade. During the 1990's, black infants in each age group have generally had the highest rates of assisted ventilation of 30 minutes or longer, while white infants in each age group have had the highest rates of birth injury. Risk factors for birth injury include macrosomia, cephalopelvic disproportion, and breech/malpresentation (72).

It has been shown that abnormal conditions may be underreported or incorrectly reported on the birth certificate (62, 73). Some abnormalities are difficult to recognize at birth (e.g., fetal alcohol syndrome); an abnormal condition present at birth may be diagnosed after the birth certificate has been completed (74, 75).

Congenital anomalies

Congenital anomalies are a major cause of neonatal deaths, physical defects, and metabolic diseases. For some anomalies, early ascertainment and immediate medical and surgical care is vital (72). Congenital anomalies are reported on the birth certificates of 49 States and the District of Columbia, accounting for 99 percent of 1999 births ([table 49](#)). Because many of the congenital anomalies tracked on birth certificates occur infrequently, the rates shown in this report are calculated per 100,000 live births.

Congenital anomalies are underreported on the birth certificate (62, 76, 77). A number of factors limit complete reporting of such conditions, including recognizability and severity (62, 78–80). Serious malformations are more likely to be reported. Caution should also be used in comparing yearly rates for a specific anomaly as a small change in the number of anomalies reported can result in a relatively large change in rates.

Cleft lip/palate was reported at a rate of 81 per 100,000 births in 1999 compared with 88 in 1990. The rate of clubfoot has changed little during the 1990's and was 56 per 100,000 in 1999. The rate of Down's syndrome has generally been stable since 1993 (45.5 per 100,000 in 1999) ([table 49](#)).

In 1992 the U.S. Public Health Service recommended that women of childbearing age increase consumption of the vitamin folic acid to

prevent spina bifida and anencephalus. Four years later, the Food and Drug Administration mandated that by January 1998 all cereal grain products be fortified with folic acid. In 1999 survey results showed increased folate status among women of childbearing age (81,82). The rate of spina bifida/meningocele has steadily declined from the 1995 rate of 28.1 per 100,000 to 20.1. Since 1994, the rate of anencephalus has ranged between 11 (1994 and 1999) and 13 per 100,000 (1996–97).

For many anomalies, rates vary widely with maternal age (table 49). For example, rates for Down's syndrome and heart malformations have consistently been higher for mothers aged 35 years and over, according to birth certificate data in the 1990's.

Multiple births

The number of births in twin deliveries continued to climb in 1999, rising 3 percent to 114,307 births. The twin birth rate (the number of twin births per 1,000 live births) was also up for 1998–99, rising 3 percent, to 28.9 per 1,000 births. Since 1980 the number of twins has risen 67 percent (from 68,339), and the twin birth rate by 53 percent (from 18.9) (70). (See table 50 for 1999 data.)

Reversing a long-time trend, the number and rate of triplet and other higher order multiple births (triplet/+) dropped by 4 percent for 1999 to 7,321, or 184.9 triplet/+ births per 100,000 live births. Declines in all of the higher-order pluralities, that is, triplets, quadruplets, and quintuplet and other higher order multiples, were reported (table J). The number and rate of triplet/+ had been escalating rapidly since 1980, soaring from 1,337 births and a rate of only 37.0 (70). (See figure 9.)

The extraordinary rise in multiple births over the last two decades, especially in triplet/+ births, has been associated with two related trends; advances in, and greater access to assisted reproductive medicine (i.e., ovulation-inducing drugs and assisted reproductive techniques (ART) such as *in vitro* fertilization (IVF)), and with the older age of childbearing (women in their thirties are more likely to have a multiple birth even without the help of fertility therapies) (83–85). A recent study estimated that the majority of triplet/+ births in 1997 were the result of ART (43 percent) and ovulation-inducing drugs (38 percent)—only about 20 percent of triplet/+ births were spontaneously conceived (86).

There was a pronounced decline in triplet/+ births to non-Hispanic white women (262.8 to 251.8 per 100,000 births for 1998–99), but the sudden decline for 1999 was not observed among all age and racial/ethnic groups; women 35–39 years of age were more likely to have a triplet/+ birth in 1999 compared with 1998, as were non-Hispanic black (95.2 for 1999) and Hispanic women (76.3 for 1999). Although some reduction in the overall number and rate of triplet/+ births is expected as the population of women aged 30 years and over declines, the sudden downturn in age-specific triplet/+ birth rates may signal a more fundamental shift. In 1999 The American College of Obstetricians and Gynecologists and The American Society of Reproductive Medicine issued recommendations to help prevent triplet/+ births because they are at elevated risk of poor outcomes (87, 88). Recent refinements to fertility-enhancing therapies, particularly to IVF, which lower the risk of multifetal pregnancy, also may affect the future incidence of "multiple multiples" (87–90).

Twin birth rates rose between 1998 and 1999 for nearly all age groups, and for non-Hispanic white (31.5 per 1,000) and non-Hispanic black women (32.1). A small decline in the twinning rate for Hispanic women was reported (20.1).

Table J. Numbers of twin, triplet, quadruplet, and quintuplet and other higher order multiple births: United States, 1989–99

Year	Twins	Triplets	Quadruplets	Quintuplets and other higher order multiples ¹
1999	114,307	6,742	512	67
1998	110,670	6,919	627	79
1997	104,137	6,148	510	79
1996	100,750	5,298	560	81
1995	96,736	4,551	365	57
1994	97,064	4,233	315	46
1993	96,445	3,834	277	57
1992	95,372	3,547	310	26
1991	94,779	3,121	203	22
1990	93,865	2,830	185	13
1989	90,118	2,529	229	40

¹Quintuplets, sextuplets, and higher order multiple births are not differentiated in the national data set.

Historically, twin birth rates have been highest for mothers 35–39 years of age. In 1999 however, twin birth rates rose steadily with maternal age and were highest for women aged 50–54 years (data not shown). Since 1990, the twin birth rate has risen 80 percent among women 40–44 years of age (from 24.7 to 44.5 per 1,000), and almost 600 percent among women aged 45–49 years (from 23.8 to 155.7), compared to only a 6 percent rise for women under age 20 years (14.3 to 15.2) (figure 10). Comparable trend data are not available for women aged 50–54 years, but in 1999 more than a third of births (34 percent) to women in the oldest age group were born in a twin delivery (data not shown).

Multiple births present substantial perinatal risk to both mother and infant, and risk increases with plurality. Mothers of multiples suffer more ante- and postpartum complications than singletons and their infants are born considerably smaller; on average, twins weigh about a third less, and triplets about half of singletons (91). Multiples are more likely to be admitted to neonatal intensive care and are less likely to survive the first year of life (66, 91).

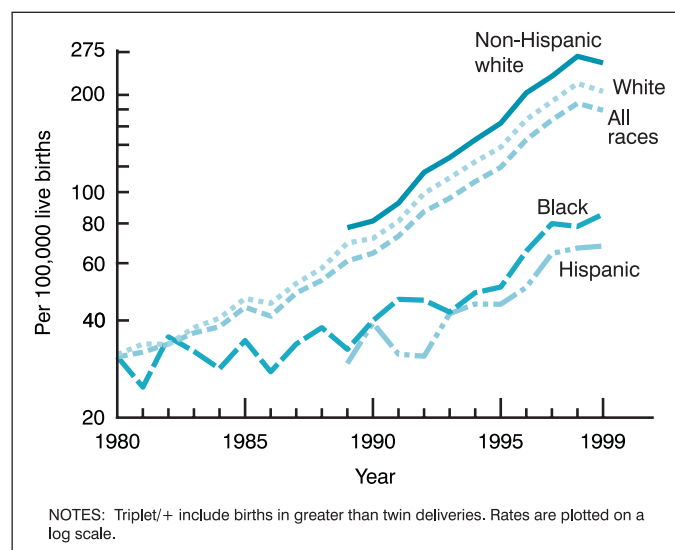


Figure 9. Triplet/+ birth rates by race and Hispanic origin of mother: United States, 1980–99

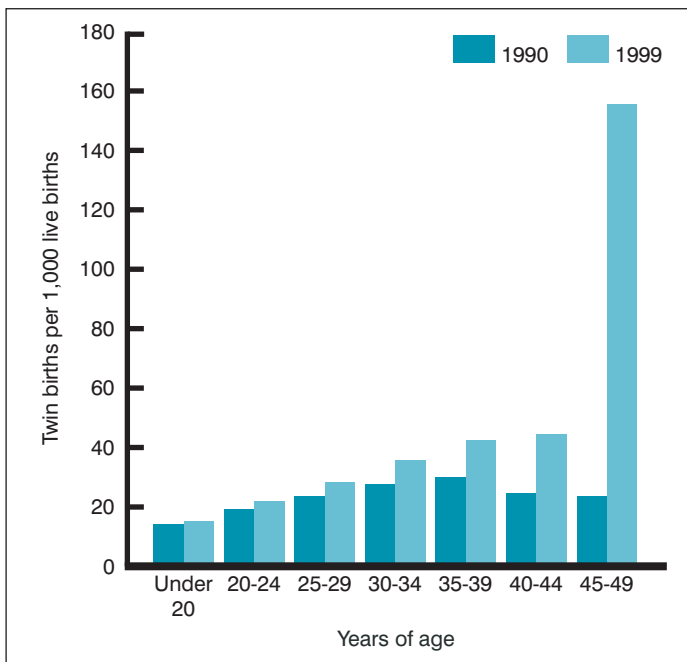


Figure 10. Twin birth rates by age of mother: United States, 1990 and 1999

References

- Curtin SC, Martin JA. Births: Preliminary data for 1999. National vital statistics reports; vol 48 no 14. Hyattsville, Maryland: National Center for Health Statistics. 2000.
- National Center for Health Statistics. Natality public-use tape and CD-ROM. Hyattsville, Maryland: National Center for Health Statistics. Annual products.
- National Center for Health Statistics. Vital statistics of the United States, 1997, Vol I, natality. Available at: <http://www.cdc.gov/nchs/data/wh/statab/inpubd/natality/natab97.htm>.
- National Center for Health Statistics. Vital statistics of the United States, 1999, Vol I, natality, Technical appendix. Hyattsville, Maryland: National Center for Health Statistics. In press.
- Mathews TJ, Ventura SJ, Curtin SC, Martin JA. Births of Hispanic origin, 1989–95. Monthly vital statistics report; vol 46 no 6, supp. Hyattsville, Maryland: National Center for Health Statistics. 1998.
- U.S. Census Bureau. U.S. population estimates, by age, sex, race, and Hispanic origin: 1980 to 1999. Washington, DC: U. S. Bureau of the Census. Internet release, April 11, 2000. http://www.census.gov/population/www/estimates/nat_90s_1.html.
- Ventura SJ, Curtin SC, Mathews TJ. Variations in teenage birth rates, 1991–98: National and State trends. National vital statistics reports; vol 48 no 6. Hyattsville, Maryland: National Center for Health Statistics. 2000.
- Ventura SJ, Mosher WD, Curtin SC, Abma JC, Henshaw S. Trends in pregnancies and pregnancy rates by outcome: Estimates for the United States, 1976–96. National Center for Health Statistics. Vital Health Stat 21(56). 2000.
- Ventura SJ, Mosher WD, Curtin SC, Abma JC, Henshaw S. Trends in pregnancy rates for the United States, 1976–97: An update. National vital statistics reports; vol 49. In preparation.
- Henshaw SK, Feivelson DJ. Teenage abortion and pregnancy statistics by state, 1996. Fam Plann Persp 32(6):272–80. 2000.
- Abma JC, Sonenstein F. Sexual activity and contraceptive practices among teenagers in the United States, 1988 and 1995. Vital Health Stat 23(21). 2001.
- U.S. Department of Health and Human Services. A national strategy to prevent teen pregnancy: Annual report, 1999–2000. Washington, DC: U.S. Department of Health and Human Services. 2000.
- Abma JC, Chandra A, Mosher WD, Peterson LS, Piccinino LJ. Fertility, family planning, and women's health: New data from the 1995 National Survey of Family Growth. National Center for Health Statistics. Vital Health Stat 23(19). 1997.
- Piccinino LJ, Mosher WD. Trends in contraceptive use in the United States: 1982–1995. Fam Plann Persp 30(1):4–10, 46. 1998.
- Ventura SJ. Trends and variations in first births to older women, 1970–86. National Center for Health Statistics. Vital Health Stat 21(47). 1989.
- Chandra A, Stephen EH. Impaired fecundity in the United States: 1982–1995. Fam Plann Persp 30(1):34–42. 1998.
- Clarke SC, Ventura SJ. Birth and fertility rates for States: United States, 1990. National Center for Health Statistics. Vital Health Stat 21(52). 1994.
- Taffel SM. Birth and fertility rates for States: United States, 1980. National Center for Health Statistics. Vital Health Stat 21(42). 1984.
- Ventura SJ, Martin JA, Curtin SC, Mathews TJ. Report of final natality statistics, 1996. Monthly vital statistics report; vol 46 no 11, supp. Hyattsville, Maryland: National Center for Health Statistics. 1998.
- Ventura SJ, Martin JA, Curtin SC, Mathews TJ. Births: Final data for 1997. National vital statistics reports; vol 47 no 18. Hyattsville, Maryland: National Center for Health Statistics. 1999.
- Ventura SJ, Martin JA, Curtin SC, Mathews TJ, Park MM. Births: Final data for 1998. National vital statistics reports; vol 48 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2000.
- Clarke, JI. The Human Dichotomy: Changing Numbers of Males and Females. Oxford, England: Pergamon Press. 2000.
- Fields J, Casper L. Unpublished data from the March 1999 current population survey. U.S. Census Bureau. 2000.
- Ventura SJ, Bachrach CA. Nonmarital childbearing in the United States, 1940–99. National vital statistics reports; vol 48 no 16. Hyattsville, Maryland: National Center for Health Statistics. 2000.
- U.S. Census Bureau. Educational attainment in the United States: March 1999. P20–528. Also detailed tables and documentation for P20–528. Washington: U.S. Department of Commerce. 2000. Available at: <http://www.census.gov/prod/2000pubs/p20-528.pdf>.
- Chomitz VR, Cheung LWY, Lieberman E. The role of lifestyle in preventing low birth weight. In: The Future of Children: Low Birth-weight. Vol 5(1):121–38. Los Altos, California: Center for the Future of Children, The David and Lucile Packard Foundation. 1995.
- Institute of Medicine. Subcommittee on Nutritional Status and Weight Gain During Pregnancy. Nutrition during pregnancy. National Academy of Sciences. Washington: National Academy Press. 1990.
- Abrams B, Selvin S. Maternal weight gain pattern and birth weight. Am J Obstet Gynecol. 86(2):163–9. 1995.
- Lydakis C, Beevers DG, Beevers M, Lip GYH. Obstetric and neonatal outcome following chronic hypertension in pregnancy among different ethnic groups. QJM 91(12):837–44. 1998.
- Sibai BM, Lindheimer M, Hauth J, et al. Risk factors for preeclampsia, abruptio placentae, and adverse neonatal outcomes among women with chronic hypertension. NEJM 339(10):667–71. 1998.
- Xiong X, Mayes D, Demianczuk N, et al. Impact of pregnancy-induced hypertension on fetal growth. American Journal of Obstetrics and Gynecology 180(1 Pt 1):207–13. 1999.
- Cunningham FG, MacDonald PC, Grant NF, et al, Eds. Williams Obstetrics (20th edition). Stamford, CT: Appleton & Lange. 1997.

33. Scott JR, Di Saia PJ, Hammond CB, et al. Eds. *Danforth's Obstetrics and Gynecology* (8th edition). Philadelphia, PA: Lippincott Williams & Wilkins. 1999.
34. Buescher PA, Taylor KP, Davis MH, Bowling JM. The quality of the new birth certificate data: A validation study in North Carolina. *Am J Public Health* 83(8):1163-5. 1993.
35. Woolbright LA, Harshbarger DS. The revised standard certificate of live birth: Analysis of medical risk factor data from birth certificates in Alabama, 1988-92. *Pub Health Rep* 110(1):59-63. 1995.
36. Woolbright LA, Hilliard M, Harshbarger DS, et al. Improving medical risk factor reporting on birth certificates in Alabama. *Southern Medical J* 92(9):893-97. 1999.
37. Mathews TJ. Smoking during pregnancy, 1990-96. National vital statistics reports; vol 47 no. 10. Hyattsville, Maryland: National Center for Health Statistics. 1998.
38. Dietz PM, Adams MM, Kendrick JS, Mathis MP, The PRAMS Working Group. Completeness of ascertainment of prenatal smoking using birth certificates and confidential questionnaires: Variations by maternal attributes and infant birth weight. *Am J Epidemiol* 148(11):1048-54. 1998.
39. Kharrazi M, Epstein D, Hopkins B, et al. Evaluation of four smoking questions. *Pub Health Rep* 114(1):60-70. 1999.
40. Ventura SJ. Commentary: Using the birth certificate to monitor smoking during pregnancy. *Pub Health Rep* 114(1):71-3. 1999.
41. Office of Applied Studies, Substance Abuse and Mental Health Services Administration. National Household Survey on Drug Abuse, 1995 and 1996. Available at: <http://www.samhsa.gov/oas/nhsda/PE1996/artab046.htm>. Internet release, August 21, 1998.
42. Vega WA, Kolody B, Hwang J, Noble A. Prevalence and magnitude of perinatal substance exposures in California. *NEJM* 329(12):850-4. 1993.
43. Ebrahim SH, Floyd RL, Merritt RK, et al. Trends in pregnancy-related smoking rates in the United States, 1987-96. *JAMA* 283(3):361-66. 2000.
44. Kleinman JC, Madans JH. The effects of maternal smoking, physical stature, and educational attainment on the incidence of low birth weight. *Am J Epidemiol* 121(6):843-55. 1985.
45. Pollack HA. Sudden infant death syndrome, maternal smoking during pregnancy, and the cost-effectiveness of smoking cessation intervention. *Am J Public Health* 91(3):432-36. 2001.
46. Cunningham J, Dockery DW, Speizer FE. Maternal smoking during pregnancy as a predictor of lung function in children. *Am J Epidemiol* 139(12):1139-52. 1994.
47. Lorente C, Cordier S, Goujard J, et al. Tobacco and alcohol use during pregnancy and risk of oral clefts. *Am J Public Health* 90(3):415-19. 2000.
48. Crump C, Lipsky S, Mueller BA. Adverse birth outcomes among Mexican-Americans: Are U.S.-born women at greater risk than Mexican-born women? *Ethn Health* 4(1-2):29-34. 1999.
49. Ventura SJ, Taffel SM. Childbearing characteristics of U.S.- and foreign-born Hispanic mothers. *Pub Health Rep* 100(6):647-52. 1985.
50. Moore ML, Zaccaro DJ. Cigarette smoking, low birth weight, and preterm births in low-income African American women. *J Perinatol* 20(3):176-80. 2000.
51. Fox SH, Koepsell TD, Daling JR. Birth weight and smoking during pregnancy—Effect modification by maternal age. *Am J Epidemiol* 139(10):1008-15. 1994.
52. Sampson PD, Bookstein FL, Barr HM, Steissguth AP. Prenatal alcohol exposure, birthweight, and measures of child size from birth to 14 years. *Am J Public Health* 84(9):1421-28. 1994.
53. Roeleveld N, Vingerhoets E, Zielhuis GA, Gabreels F. Mental retardation associated with parental smoking and alcohol consumption before, during, and after pregnancy. *Prev Medicine* 21:110-19. 1992.
54. Ebrahim SH, Luman ET, Floyd RL, et al. Alcohol consumption by pregnant women in the United States during 1988-1995. *Obstet and Gynecol* 92(2):187-92. 1998.
55. Huntington J, Connell FA. For every dollar spent—The cost-savings argument for prenatal care. *NEJM*. 33(19):1303-7. 1994.
56. Fiscella K. Does prenatal care improve birth outcomes? A critical review. *Obstet Gynecol* 85(3):468-79. 1995.
57. U.S. Public Health Service. *Caring for our future: The content of prenatal care*. Washington, DC: U.S. Department of Health and Human Services. 1989.
58. Kotelchuck M. An evaluation of the Kessner adequacy of prenatal care index and a proposed adequacy of prenatal care utilization index. *Am J Public Health* 84(9):1414-20. 1994.
59. Kessner DM, Singer J, Kalk CE, Schlesinger ER. Infant death, and analysis by maternal risk and health care. In: *Contrasts in health status*, vol 1. Washington, DC: U.S. Government Printing Office. 1980.
60. Mathews TJ. Trends in stimulation and induction of labor, 1989-1995. *Stat Bulletin* 78(4):20-6. 1997.
61. Curtin SC, Park MM. Trends in the attendant, place, and timing of births, and in the use of obstetric interventions: United States, 1989-97. National vital statistics reports; vol 47 no 27. Hyattsville, Maryland: National Center for Health Statistics. 1999.
62. Piper JM, Mitchel EF, Snowden M, et al. Validation of 1989 Tennessee birth certificates using maternal and newborn hospital records. *Am J Epidemiol* 137(7):758-68. 1993.
63. Parrish KM, Holt VL, Connell FA, et al. Variations in the accuracy of obstetric procedures and diagnoses on birth records in Washington State, 1989. *Am J Epidemiol* 138(2):119-127. 1993.
64. Dobie SA, Baldwin L-M, Rosenblatt RA, et al. How well do birth certificates describe the pregnancies they report? The Washington State experience with low-risk pregnancies. *Maternal and Child Health Journal* 2(3):145-54. 1998.
65. Burke ME, Poole J. Common perinatal complications. In: Simpson KR and Creehan PA, Eds. *Perinatal Nursing*. Philadelphia, Pennsylvania: Lippincott-Raven. 1996.
66. Mathews TJ, Curtin SC, MacDorman MF. Infant mortality statistics from the 1998 period linked birth/infant death data set. National vital statistics reports; vol 48 no 12. Hyattsville, Maryland: National Center for Health Statistics. 2000.
67. Goldenberg RL, Rouse DJ. Prevention of preterm birth. *New Eng J Med* 339(5):313-20. 1998.
68. Centers for Disease Control and Prevention. Preterm singleton births: United States, 1989-1996. *MMWR* 48(9):185-89. 1999.
69. Hack M, Klein NK, Taylor HG. Long-term developmental outcomes of low birth weight infants. In: *The Future of Children: Low Birth Weight*. Vol. 5(1):19-34. Los Altos, California: Center for the Future of Children. The David and Lucile Packard Foundation. 1995.
70. Martin JA, Park MM. Trends in twin and triplet births, 1980-97. National vital statistics reports; vol 47 no 24. Hyattsville, Maryland: National Center for Health Statistics. 1999.
71. Appgar V. A proposal for a new method of evaluation of the newborn infant. *Current Researches in Anesthesia and Analgesia* 260-67. July-Aug. 1953.
72. Stoll BJ, Kliegman R. The fetus and the neonatal newborn. In: Behrman RE, Kliegman RM, Jenson HB, Eds. *Nelson Textbook of Pediatrics* (16th edition). Philadelphia, Pennsylvania: W.B. Saunders Company. 2000.
73. Lanska MJ, Lanska DJ, Baumann RJ. False-positive reports of neonatal seizures on birth certificates. *Am J Public Health* 84(9):1522. 1994.
74. Centers for Disease Control and Prevention. Fetal alcohol syndrome, United States, 1979-1992. *MMWR* 42(17):339-41. 1993.

75. Hamvas A, Kwong P, DeBaun M, et al. Hyaline membrane disease is underreported in a linked birth-infant death certificate database. *Am J Public Health* 88(9):1387–9. 1998.
76. Watkins ML, Edmonds L, McClearn A, et al. The surveillance of birth defects: The usefulness of the revised U.S. standard birth certificate. *Am J Public Health* 86(5):731–34. 1996.
77. Centers for Disease Control and Prevention. Neural tube defect surveillance and folic acid intervention, Texas-Mexico border, 1993–1998. *MMWR* 49(1):1–4. 2000.
78. Luke B, Keith LG. The United States Standard Certificate of Live Birth. A critical commentary. *Journal Reprod Med* 36(8):587–91. 1991.
79. Honein MA, Paulozzi LJ. Birth defects surveillance: Assessing the “gold standard.” *Am J Public Health* 89(8):1238–40. 1999.
80. Kirby RS. The quality of data reported on birth certificates. *Am J Public Health* 87(2):301. 1996.
81. Centers for Disease Control and Prevention. National Center for Health Statistics. NCHS-Health E Stats. National Vital Statistics System. Trends in spina bifida and anencephalus in the United States, 1991–1999. Available at: <http://www.cdc.gov/nchs/products/pubs/pubd/hestats/folic/folic.htm>.
82. Centers for Disease Control and Prevention. Folate status of women of childbearing age—United States, 1999. *MMWR* 49(42):962–5. 2000.
83. Martin JA, MacDorman MF, Mathews TJ. Triplet births: Trends and outcomes, 1971–94. National Center for Health Statistics. *Vital Health Stat* 21(55). 1997.
84. Kiely JL, Kleinman JC, Kiely M. Triplets and higher-order multiple births: Time trends and infant mortality. *AJDC* 146:862–8. 1992.
85. Wilcox LS, Kiely JL, Melvin CL, Martin MC. Assisted reproductive technologies: Estimates of their contribution to multiple births and newborn hospital days in the United States. *Fertility and Sterility* 65(2):361–66. 1996.
86. Centers for Disease Control and Prevention. Contribution of Assisted Reproductive Technology and Ovulation-Inducing Drugs to Triplet and Higher-Order Multiple Births—United States, 1980–1997. *MMWR* 49(24):535–38. 2000.
87. American College of Obstetricians and Gynecologists. Nonselective embryo reduction: ethical guidance for the obstetrician-gynecologist. ACOG Committee Opinion 215. Washington: American College of Obstetricians and Gynecologists. 1999.
88. American Society for Reproductive Medicine. Guidelines on number of embryos transferred. A Practice Committee Report—A Committee Opinion. American Society for Reproductive Medicine. 1999.
89. Templeton A, Morris JK. Reducing the risk of multiple births by transfer of two embryos after in vitro fertilization. *NEJM* 339(9):573–7. 1998.
90. Gardner DK, Vella P, Lane M, et al. Culture and transfer to human blastocysts increases implantation rates and reduces the need for multiple embryo transfers. *Fertil Steril* 69(1):85–8. 1998.
91. Newman RB, Luke B. Multifetal pregnancy. A handbook for care of the pregnant patient. Philadelphia, Pennsylvania: Lippincott Williams & Wilkins. 2000.
92. Ventura SJ, Martin JA, Taffel SM, Mathews TJ, Clarke SC. Advance report of final natality statistics, 1992. Monthly vital statistics report; vol 43 no 5, supp. Hyattsville, Maryland: National Center for Health Statistics. 1994.
93. Martin JA. Birth characteristics for Asian or Pacific Islander subgroups, 1992. Monthly vital statistics report; vol 43 no 10, supp. Hyattsville, Maryland: National Center for Health Statistics. 1995.
94. Ventura SJ. Births to unmarried mothers: United States, 1980–92. National Center for Health Statistics. *Vital Health Stat* 21(53). 1995.
95. Kogan MD, Martin JA, Alexander GR, Kotelchuk M, Ventura SJ, Frigoletto FD. The changing pattern of prenatal care utilization in the United States, 1981–1995, using different prenatal care indices. *JAMA* 279(20):1623–28. 1998.
96. National Center for Health Statistics. Computer edits for natality data, effective 1993. Instruction manual, part 12. Hyattsville, Maryland: National Center for Health Statistics. 1995.
97. Alexander GR, Allen MC. Conceptualization, measurement, and use of gestational age. I. Clinical and Public Health Practice. *J Perinatal* 16(1):53–9. 1996.
98. U.S. Bureau of the Census. Age, sex, race, and Hispanic origin information from the 1990 census: A comparison of census results with results where age and race have been modified. 1990 CPH-L-74. Washington, DC: U.S. Department of Commerce. 1991.
99. U.S. Census Bureau. Population for the United States and States by single year of age and sex: 1990 to 1999. Internet release date: March 9, 2000. <http://www.census.gov/population/estimates/state/stats/st-99-10.txt>.
100. U.S. Census Bureau. Population estimates for 1999 based on unpublished tabulations prepared by the Housing and Household Economic Statistics Division. 2000.
101. Brockert JE, Stockbauer JW, Senner JW, et al. Recommended standard medical definitions for the U.S. Standard Certificate of Live Birth, 1989 revision. Paper presented at the annual meeting of the Association for Vital Records and Health Statistics. Traverse City, Michigan. June 25–27, 1990.
102. Mathews TJ, Ventura SJ. Birth and fertility rates by educational attainment: United States, 1994. Monthly vital statistics report, vol 45 no 10, supp. Hyattsville, Maryland: National Center for Health Statistics. 1997.
103. Curtin SC. Rates of cesarean birth and vaginal birth after previous cesarean, 1991–95. Monthly vital statistics report; vol 45 no 11, supp. 3. Hyattsville, Maryland: National Center for Health Statistics. 1997.

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TABLE:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Geographic area:																									
States ¹										10	11	12							19						
United States or all reporting areas	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Years:																									
Current year only		2	3				7	8		10	11	12	13	14	15	16	17		19		21	22	23	24	25
Trend	1			4	5	6			9									18		20					
Type of entry:																									
Number of births	1	2				6	7			10	11	12	13	14	15	16	17		19		21	22			
Rates or other measures	1		3	4	5	6		8	9	10			13	14	15	16	17	18	19	20	21	22	23	24	25
Characteristics:																									
Age of father																				20					
Age of mother		2	3	4			7		9									17	18		21				
Alcohol use																								24	25
Apgar score																								24	25
Birthweight																							23	24	25
Day of week																16									
Education													13	14							21				
Gestational age																						22	23	24	25
Hispanic origin of mother						⁴ 6	⁴ 7	⁴ 8	⁴ 9			⁴ 12		⁴ 14			⁶ 17	⁶ 18	⁶ 19		⁶ 21	⁶ 22	⁴ 23		⁴ 25
Live-birth order		2	3		5		7	8					13	14											
Method of delivery																16								24	25
Month of birth															15										
Nativity of mother													13	14										24	25
Prenatal care																								24	25
Race of father																				³ 20					
Race of mother	² 1	² 2	² 3	² 4	³ 5	⁴ 6	⁴ 7	⁴ 8	⁴ 9		² 11	⁴ 12	⁵ 13	⁴ 14	³ 15	³ 16	⁶ 17	⁶ 18	⁶ 19		³ 21	⁶ 22	⁴ 23	⁵ 24	⁴ 25
Sex of child													13	14											
Teenage mothers										10			13	14											
Tobacco use																								24	25
Unmarried mothers													13	14				17	18	19					
Weight gain during pregnancy																						22	23	24	25

TABLE:	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Geographic area: States ¹									34							41					46	47			
United States or all reporting areas	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Years: Current year only	26	27	28	29	30	31	32	33	34	35	36	37	38		40	41	42	43		45	46	47	48	49	50
Trend														39					44						
Type of entry: Number of births	26	27	28	29	30	31		33		35	36	37	38	39	40		42	43		45	46	47	48	49	50
Rates or other measures	26	27	28	29	30	31	32	33	34	35	36	37		39	40	41	42	43	44	45	46	47	48	49	50
Characteristics: Abnormal conditions of newborn																							48		
Age of mother	26			29	30		32	33			36	37			40					45			48	49	50
Attendant at birth													38												
Birthweight							32											43	44	45	46	47			
Complications of labor		27	28									37					42								
Congenital anomalies																								49	
Education						31																			
Gestational age																		43	44						
Hispanic origin of mother			⁴ 28		⁴ 30	⁶ 31	⁶ 32	⁶ 33	⁶ 34	⁶ 35			⁶ 38	⁶ 39	⁶ 40	⁶ 41		⁶ 43	⁶ 44	⁶ 45	⁶ 46	⁶ 47			⁶ 50
Medical risk factors	26	27	28														42								
Method of delivery														39	40	41	42								
Obstetric procedures		27	28								36														
Place of delivery													38												
Multiple births																									50
Prenatal care								33	34	35															
Race of mother	³ 26	⁵ 27	⁴ 28	³ 29	⁴ 30	³ 31	⁶ 32	⁶ 33	⁶ 34	⁶ 35	³ 36	³ 37	⁶ 38	⁶ 39	⁶ 40	⁶ 41		⁶ 43	³ 44	⁶ 45	⁶ 46	⁶ 47	³ 48	³ 49	⁶ 50
Tobacco use				29	30	31	32																		

¹Includes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas; data for American Samoa not available for tables 34 and 41.
²Includes white, black, American Indian, Asian or Pacific Islander.
³Includes white and black.
⁴Includes Mexican, Puerto Rican, Cuban, Central and South American, other and unknown Hispanic, non-Hispanic white, and non-Hispanic black.
⁵Includes white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and other Asian and Pacific Islanders.
⁶Includes Hispanic, non-Hispanic white, and non-Hispanic black.

Table 1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-99

[Birth rates are live births per 1,000 population in specified group. Fertility rates are live births per 1,000 women aged 15-44 years in specified group. Population enumerated as of April 1 for census years and estimated as of July 1 for all other years. Beginning with 1970, excludes births to nonresidents of the United States]

Year	Number					Birth rate					Fertility rate				
	All races ¹	White	Black	American Indian ²	Asian or Pacific Islander	All races ¹	White	Black	American Indian ²	Asian or Pacific Islander	All races ¹	White	Black	American Indian ²	Asian or Pacific Islander
Registered births															
Race of mother:															
1999	3,959,417	3,132,501	605,970	40,170	180,776	14.5	13.9	17.4	16.8	16.7	65.9	65.1	70.1	69.7	65.6
1998	3,941,553	3,118,727	609,902	40,272	172,652	14.6	14.0	17.7	17.1	16.4	65.6	64.6	71.0	70.7	64.0
1997	3,880,894	3,072,640	599,913	38,572	169,769	14.5	13.9	17.7	16.6	16.9	65.0	63.9	70.7	69.1	66.3
1996	3,891,494	3,093,057	594,781	37,880	165,776	14.7	14.1	17.8	16.6	17.0	65.3	64.3	70.7	68.7	65.9
1995	3,899,589	3,098,885	603,139	37,278	160,287	14.8	14.2	18.2	16.6	17.3	65.6	64.4	72.3	69.1	66.4
1994	3,952,767	3,121,004	636,391	37,740	157,632	15.2	14.4	19.5	17.1	17.5	66.7	64.9	76.9	70.9	66.8
1993	4,000,240	3,149,833	658,875	38,732	152,800	15.5	14.7	20.5	17.8	17.7	67.6	65.4	80.5	73.4	66.7
1992	4,065,014	3,201,678	673,633	39,453	150,250	15.9	15.0	21.3	18.4	18.0	68.9	66.5	83.2	75.4	67.2
1991	4,110,907	3,241,273	682,602	38,841	145,372	16.3	15.4	21.9	18.3	18.2	69.6	67.0	85.2	75.1	67.6
1990	4,158,212	3,290,273	684,336	39,051	141,635	16.7	15.8	22.4	18.9	19.0	70.9	68.3	86.8	76.2	69.6
1989	4,040,958	3,192,355	673,124	39,478	133,075	16.4	15.4	22.3	19.7	18.7	69.2	66.4	86.2	79.0	68.2
1988	3,909,510	3,102,083	638,562	37,088	129,035	16.0	15.0	21.5	19.3	19.2	67.3	64.5	82.6	76.8	70.2
1987	3,809,394	3,043,828	611,173	35,322	116,560	15.7	14.9	20.8	19.1	18.4	65.8	63.3	80.1	75.6	67.1
1986	3,756,547	3,019,175	592,910	34,169	107,797	15.6	14.8	20.5	19.2	18.0	65.4	63.1	78.9	75.9	66.0
1985	3,760,561	3,037,913	581,824	34,037	104,606	15.8	15.0	20.4	19.8	18.7	66.3	64.1	78.8	78.6	68.4
1984 ³	3,669,141	2,967,100	568,138	33,256	98,926	15.6	14.8	20.1	20.1	18.8	65.5	63.2	78.2	79.8	69.2
1983 ³	3,638,933	2,946,468	562,624	32,881	95,713	15.6	14.8	20.2	20.6	19.5	65.7	63.4	78.7	81.8	71.7
1982 ³	3,680,537	2,984,817	568,506	32,436	93,193	15.9	15.1	20.7	21.1	20.3	67.3	64.8	80.9	83.6	74.8
1981 ³	3,629,238	2,947,679	564,955	29,688	84,553	15.8	15.0	20.8	20.0	20.1	67.3	64.8	82.0	79.6	73.7
1980 ³	3,612,258	2,936,351	568,080	29,389	74,355	15.9	15.1	21.3	20.7	19.9	68.4	65.6	84.7	82.7	73.2
Race of child:															
1980 ³	3,612,258	2,898,732	589,616	36,797	---	15.9	14.9	22.1	---	---	68.4	64.7	88.1	---	---
1979 ³	3,494,398	2,808,420	577,855	34,269	---	15.6	14.5	22.0	---	---	67.2	63.4	88.3	---	---
1978 ³	3,333,279	2,681,116	551,540	33,160	---	15.0	14.0	21.3	---	---	65.5	61.7	86.7	---	---
1977 ³	3,326,632	2,691,070	544,221	30,500	---	15.1	14.1	21.4	---	---	66.8	63.2	88.1	---	---
1976 ³	3,167,788	2,567,614	514,479	29,009	---	14.6	13.6	20.5	---	---	65.0	61.5	85.8	---	---
1975 ³	3,144,198	2,551,996	511,581	27,546	---	14.6	13.6	20.7	---	---	66.0	62.5	87.9	---	---
1974 ³	3,159,958	2,575,792	507,162	26,631	---	14.8	13.9	20.8	---	---	67.8	64.2	89.7	---	---
1973 ³	3,136,965	2,551,030	512,597	26,464	---	14.8	13.8	21.4	---	---	68.8	64.9	93.6	---	---
1972 ³	3,258,411	2,655,558	531,329	27,368	---	15.6	14.5	22.5	---	---	73.1	68.9	99.9	---	---
1971 ⁴	3,555,970	2,919,746	564,960	27,148	---	17.2	16.1	24.4	---	---	81.6	77.3	109.7	---	---
1970 ⁴	3,731,386	3,091,264	572,362	25,864	---	18.4	17.4	25.3	---	---	87.9	84.1	115.4	---	---
1969 ⁴	3,600,206	2,993,614	543,132	24,008	---	17.9	16.9	24.4	---	---	86.1	82.2	112.1	---	---
1968 ⁴	3,501,564	2,912,224	531,152	24,156	---	17.6	16.6	24.2	---	---	85.2	81.3	112.7	---	---
1967 ⁵	3,520,959	2,922,502	543,976	22,665	---	17.8	16.8	25.1	---	---	87.2	82.8	118.5	---	---
1966 ⁴	3,606,274	2,993,230	558,244	23,014	---	18.4	17.4	26.2	---	---	90.8	86.2	124.7	---	---
1965 ⁴	3,760,358	3,123,860	581,126	24,066	---	19.4	18.3	27.7	---	---	96.3	91.3	133.2	---	---
1964 ⁴	4,027,490	3,369,160	607,556	24,382	---	21.1	20.0	29.5	---	---	104.7	99.8	142.6	---	---
1963 ^{4,6}	4,098,020	3,326,344	580,658	22,358	---	21.7	20.7	---	---	---	108.3	103.6	---	---	---
1962 ^{4,6}	4,167,362	3,394,068	584,610	21,968	---	22.4	21.4	---	---	---	112.0	107.5	---	---	---
1961 ⁴	4,268,326	3,600,864	611,072	21,464	---	23.3	22.2	---	---	---	117.1	112.3	---	---	---
1960 ⁴	4,257,850	3,600,744	602,264	21,114	---	23.7	22.7	31.9	---	---	118.0	113.2	153.5	---	---
Births adjusted for underregistration															
Race of child:															
1955	4,097,000	3,485,000	---	---	---	25.0	23.8	---	---	---	118.3	113.7	---	---	---
1950	3,632,000	3,108,000	---	---	---	24.1	23.0	---	---	---	106.2	102.3	---	---	---
1945	2,858,000	2,471,000	---	---	---	20.4	19.7	---	---	---	85.9	83.4	---	---	---
1940	2,559,000	2,199,000	---	---	---	19.4	18.6	---	---	---	79.9	77.1	---	---	---

--- Data not available.

¹ For 1960-91 includes births to races not shown separately.

² Includes births to Aleuts and Eskimos.

³ Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

⁴ Based on a 50-percent sample of births.

⁵ Based on a 20- to 50-percent sample of births.

⁶ Figures by race exclude New Jersey.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 2. Live births by age of mother, live-birth order, and race of mother: United States, 1999

[Live-birth order refers to number of children born alive to mother]

Live-birth order and race of mother	All ages	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	15 years	16 years	17 years	18 years	19 years							
All races	3,959,417	9,054	476,050	22,896	51,516	89,176	133,988	178,474	981,929	1,078,252	892,400	434,294	83,090	4,174	174
1st child	1,588,639	8,821	371,024	21,811	47,039	75,906	103,752	122,516	448,406	392,579	253,400	95,757	17,606	992	54
2d child	1,285,592	162	85,488	910	3,911	11,489	25,110	44,068	338,946	373,657	321,925	141,249	23,168	958	39
3d child	653,070	7	14,676	33	246	1,154	3,851	9,392	137,418	195,062	186,450	101,454	17,241	729	33
4th child	250,404	1	1,872	4	15	89	426	1,338	39,701	73,300	75,501	49,454	10,096	458	21
5th child	91,287	-	238	-	1	6	51	180	10,019	25,193	28,360	21,501	5,688	284	4
6th child	37,458	-	29	2	2	3	5	17	2,381	8,956	12,354	10,332	3,200	202	4
7th child	16,919	-	6	-	-	-	2	4	545	3,181	5,643	5,402	2,006	127	9
8th child and over	17,898	-	3	-	-	-	1	2	191	1,869	4,861	6,959	3,614	395	6
Not stated	18,150	63	2,714	136	302	529	790	957	4,322	4,455	3,906	2,186	471	29	4
White	3,132,501	4,739	337,888	14,193	34,649	62,782	96,254	130,010	748,371	873,654	739,948	356,959	67,419	3,385	138
1st child	1,262,603	4,618	269,011	13,586	32,055	54,498	76,643	92,229	356,004	326,468	211,364	79,619	14,619	858	42
2d child	1,034,524	75	57,177	473	2,207	7,209	16,620	30,668	261,340	309,269	270,644	116,214	18,986	784	35
3d child	517,012	2	8,498	21	130	618	2,128	5,601	96,969	155,912	156,546	84,605	13,863	587	30
4th child	190,472	-	903	3	5	44	197	654	24,322	54,400	61,398	40,837	8,226	369	17
5th child	65,205	-	120	-	1	3	24	92	5,057	16,577	21,610	17,132	4,490	215	4
6th child	25,466	-	11	2	1	1	1	6	984	5,121	8,725	7,942	2,523	157	3
7th child	11,085	-	3	-	-	-	1	2	208	1,590	3,699	3,961	1,526	94	4
8th child and over	11,573	-	1	-	-	-	-	1	92	774	2,724	4,873	2,807	301	1
Not stated	14,561	44	2,164	108	250	409	640	757	3,395	3,543	3,238	1,776	379	20	2
Black	605,970	3,977	121,166	7,865	14,942	23,112	32,948	42,299	193,211	138,868	91,486	47,277	9,564	409	12
1st child	228,027	3,866	88,631	7,438	13,221	18,631	23,408	25,933	71,330	34,529	19,696	8,354	1,555	60	6
2d child	179,502	87	25,375	392	1,562	3,852	7,606	11,963	65,484	44,233	28,479	13,500	2,255	87	2
3d child	106,259	4	5,661	9	105	483	1,572	3,492	35,748	31,050	20,736	10,902	2,082	75	1
4th child	48,822	1	890	1	10	37	202	640	13,805	15,640	10,778	6,348	1,308	52	-
5th child	21,487	-	110	-	-	2	25	83	4,481	7,264	5,274	3,437	872	49	-
6th child	9,817	-	17	-	1	2	4	10	1,250	3,282	2,919	1,822	502	25	-
7th child	4,695	-	3	-	-	-	1	2	302	1,350	1,544	1,112	365	18	1
8th child and over	4,799	-	2	-	-	-	1	1	85	912	1,635	1,561	564	40	-
Not stated	2,562	19	477	25	43	105	129	175	726	608	425	241	61	3	2
American Indian ¹	40,170	198	7,915	440	979	1,565	2,200	2,731	13,225	9,641	5,701	2,844	621	25	-
1st child	14,369	198	6,047	419	907	1,302	1,650	1,769	4,874	1,959	876	348	63	4	-
2d child	10,931	-	1,540	20	58	225	472	765	4,697	2,743	1,310	537	96	8	-
3d child	7,063	-	258	-	7	28	61	162	2,435	2,421	1,263	571	113	2	-
4th child	3,778	-	26	-	-	1	7	18	860	1,372	937	491	89	3	-
5th child	1,895	-	2	-	-	1	-	1	238	652	597	319	85	2	-
6th child	933	-	-	-	-	-	-	-	49	260	337	227	58	2	-
7th child	511	-	-	-	-	-	-	-	9	119	192	145	44	2	-
8th child and over	502	-	-	-	-	-	-	-	4	74	167	185	70	2	-
Not stated	188	-	42	1	7	8	10	16	59	41	22	21	3	-	-
Asian or Pacific Islander	180,776	140	9,081	398	946	1,717	2,586	3,434	27,122	56,089	55,265	27,214	5,486	355	24
1st child	83,640	139	7,335	368	856	1,475	2,051	2,585	16,198	29,623	21,464	7,436	1,369	70	6
2d child	60,635	-	1,396	25	84	203	412	672	7,425	17,412	21,492	10,998	1,831	79	2
3d child	22,736	1	259	3	4	25	90	137	2,266	5,679	7,905	5,376	1,183	65	2
4th child	7,332	-	53	-	-	7	20	26	714	1,888	2,388	1,778	473	34	4
5th child	2,700	-	6	-	-	-	2	4	243	700	879	613	241	18	-
6th child	1,242	-	1	-	-	-	-	1	98	293	373	341	117	18	1
7th child	628	-	-	-	-	-	-	-	26	122	208	184	71	13	4
8th child and over	1,024	-	-	-	-	-	-	-	10	109	335	340	173	52	5
Not stated	839	-	31	2	2	7	11	9	142	263	221	148	28	6	-

- Quantity zero.

¹ Includes births to Aleuts and Eskimos.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 3. Fertility rates and birth rates by age of mother, live-birth order, and race of mother: United States, 1999

[Rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

Live-birth order and race of mother	15-44 years ¹	Age of mother									
		10-14 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ²
			Total	15-17 years	18-19 years						
All races	65.9	0.9	49.6	28.7	80.3	111.0	117.8	89.6	38.3	7.4	0.4
1st child	26.6	0.9	38.9	25.5	58.4	50.9	43.1	25.6	8.5	1.6	0.1
2d child	21.5	0.0	9.0	2.9	17.9	38.5	41.0	32.5	12.5	2.1	0.1
3d child	10.9	*	1.5	0.3	3.4	15.6	21.4	18.8	9.0	1.5	0.1
4th child	4.2	*	0.2	0.0	0.5	4.5	8.0	7.6	4.4	0.9	0.0
5th child	1.5	*	0.0	*	0.1	1.1	2.8	2.9	1.9	0.5	0.0
6th and 7th child	0.9	*	0.0	*	0.0	0.3	1.3	1.8	1.4	0.5	0.0
8th child and over	0.3	*	*	*	*	0.0	0.2	0.5	0.6	0.3	0.0
White	65.1	0.6	44.6	24.8	73.5	107.0	121.1	93.2	38.8	7.3	0.4
1st child	26.4	0.6	35.7	22.4	55.2	51.1	45.4	26.7	8.7	1.6	0.1
2d child	21.6	0.0	7.6	2.2	15.5	37.5	43.0	34.2	12.7	2.1	0.1
3d child	10.8	*	1.1	0.2	2.5	13.9	21.7	19.8	9.2	1.5	0.1
4th child	4.0	*	0.1	0.0	0.3	3.5	7.6	7.8	4.5	0.9	0.0
5th child	1.4	*	0.0	*	0.0	0.7	2.3	2.7	1.9	0.5	0.0
6th and 7th child	0.8	*	*	*	*	0.2	0.9	1.6	1.3	0.4	0.0
8th child and over	0.2	*	*	*	*	0.0	0.1	0.3	0.5	0.3	0.0
Black	70.1	2.6	81.0	52.0	122.8	141.7	101.9	64.5	30.8	6.5	0.3
1st child	26.5	2.6	59.5	44.7	80.8	52.5	25.5	13.9	5.5	1.1	0.1
2d child	20.9	0.1	17.0	6.6	32.1	48.2	32.6	20.2	8.8	1.6	0.1
3d child	12.4	*	3.8	0.7	8.3	26.3	22.9	14.7	7.1	1.4	0.1
4th child	5.7	*	0.6	0.1	1.4	10.2	11.5	7.6	4.2	0.9	0.0
5th child	2.5	*	0.1	*	0.2	3.3	5.4	3.7	2.2	0.6	0.0
6th and 7th child	1.7	*	0.0	*	*	1.1	3.4	3.2	1.9	0.6	0.0
8th child and over	0.6	*	*	*	*	0.1	0.7	1.2	1.0	0.4	0.0
American Indian ³	69.7	1.6	67.8	41.4	110.6	137.1	102.4	64.3	30.7	7.1	0.3
1st child	25.0	1.6	52.1	36.6	77.1	50.8	20.9	9.9	3.8	0.7	*
2d child	19.0	*	13.3	4.2	27.9	48.9	29.3	14.8	5.8	1.1	*
3d child	12.3	*	2.2	0.5	5.0	25.4	25.8	14.3	6.2	1.3	*
4th child	6.6	*	0.2	*	0.6	9.0	14.6	10.6	5.3	1.0	*
5th child	3.3	*	*	*	*	2.5	7.0	6.8	3.5	1.0	*
6th and 7th child	2.5	*	*	*	*	0.6	4.0	6.0	4.1	1.2	*
8th child and over	0.9	*	*	*	*	*	0.8	1.9	2.0	0.8	*
Asian or Pacific Islander	65.6	0.3	22.3	12.3	38.0	70.0	116.4	109.3	54.6	11.6	0.9
1st child	30.5	0.3	18.1	10.9	29.4	42.0	61.8	42.6	15.0	2.9	0.2
2d child	22.1	*	3.4	1.3	6.9	19.3	36.3	42.7	22.2	3.9	0.2
3d child	8.3	*	0.6	0.1	1.4	5.9	11.8	15.7	10.9	2.5	0.2
4th child	2.7	*	0.1	*	0.3	1.9	3.9	4.7	3.6	1.0	0.1
5th child	1.0	*	*	*	*	0.6	1.5	1.7	1.2	0.5	*
6th and 7th child	0.7	*	*	*	*	0.3	0.9	1.2	1.1	0.4	0.1
8th child and over	0.4	*	*	*	*	*	0.2	0.7	0.7	0.4	0.1

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

0.0 Quantity more than zero but less than 0.05.

¹ Fertility rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.

² Birth rates computed by relating births to women aged 45-54 years to women aged 45-49 years.

³ Includes births to Aleuts and Eskimos.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-99, and by age and race of mother: United States, 1980-99

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group. Population enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

Year and race	Total fertility rate	Age of mother									
		10-14 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ¹
			Total	15-17 years	18-19 years						
All races²											
1999	2,075.0	0.9	49.6	28.7	80.3	111.0	117.8	89.6	38.3	7.4	0.4
1998	2,058.5	1.0	51.1	30.4	82.0	111.2	115.9	87.4	37.4	7.3	0.4
1997	2,032.5	1.1	52.3	32.1	83.6	110.4	113.8	85.3	36.1	7.1	0.4
1996	2,027.0	1.2	54.4	33.8	86.0	110.4	113.1	83.9	35.3	6.8	0.3
1995	2,019.0	1.3	56.8	36.0	89.1	109.8	112.2	82.5	34.3	6.6	0.3
1994	2,036.0	1.4	58.9	37.6	91.5	111.1	113.9	81.5	33.7	6.4	0.3
1993	2,046.0	1.4	59.6	37.8	92.1	112.6	115.5	80.8	32.9	6.1	0.3
1992	2,065.0	1.4	60.7	37.8	94.5	114.6	117.4	80.2	32.5	5.9	0.3
1991	2,073.0	1.4	62.1	38.7	94.4	115.7	118.2	79.5	32.0	5.5	0.2
1990	2,081.0	1.4	59.9	37.5	88.6	116.5	120.2	80.8	31.7	5.5	0.2
1989	2,014.0	1.4	57.3	36.4	84.2	113.8	117.6	77.4	29.9	5.2	0.2
1988	1,934.0	1.3	53.0	33.6	79.9	110.2	114.4	74.8	28.1	4.8	0.2
1987	1,872.0	1.3	50.6	31.7	78.5	107.9	111.6	72.1	26.3	4.4	0.2
1986	1,837.5	1.3	50.2	30.5	79.6	107.4	109.8	70.1	24.4	4.1	0.2
1985	1,844.0	1.2	51.0	31.0	79.6	108.3	111.0	69.1	24.0	4.0	0.2
1984 ³	1,806.5	1.2	50.6	31.0	77.4	106.8	108.7	67.0	22.9	3.9	0.2
1983 ³	1,799.0	1.1	51.4	31.8	77.4	107.8	108.5	64.9	22.0	3.9	0.2
1982 ³	1,827.5	1.1	52.4	32.3	79.4	111.6	111.0	64.1	21.2	3.9	0.2
1981 ³	1,812.0	1.1	52.2	32.0	80.0	112.2	111.5	61.4	20.0	3.8	0.2
1980 ³	1,839.5	1.1	53.0	32.5	82.1	115.1	112.9	61.9	19.8	3.9	0.2
1979 ³	1,808.0	1.2	52.3	32.3	81.3	112.8	111.4	60.3	19.5	3.9	0.2
1978 ³	1,760.0	1.2	51.5	32.2	79.8	109.9	108.5	57.8	19.0	3.9	0.2
1977 ³	1,789.5	1.2	52.8	33.9	80.9	112.9	111.0	56.4	19.2	4.2	0.2
1976 ³	1,738.0	1.2	52.8	34.1	80.5	110.3	106.2	53.6	19.0	4.3	0.2
1975 ³	1,774.0	1.3	55.6	36.1	85.0	113.0	108.2	52.3	19.5	4.6	0.3
1974 ³	1,835.0	1.2	57.5	37.3	88.7	117.7	111.5	53.8	20.2	4.8	0.3
1973 ³	1,879.0	1.2	59.3	38.5	91.2	119.7	112.2	55.6	22.1	5.4	0.3
1972 ³	2,010.0	1.2	61.7	39.0	96.9	130.2	117.7	59.8	24.8	6.2	0.4
1971 ⁴	2,266.5	1.1	64.5	38.2	105.3	150.1	134.1	67.3	28.7	7.1	0.4
1970 ⁴	2,480.0	1.2	68.3	38.8	114.7	167.8	145.1	73.3	31.7	8.1	0.5
White											
1999	2,065.0	0.6	44.6	24.8	73.5	107.0	121.1	93.2	38.8	7.3	0.4
1998	2,041.0	0.6	45.4	25.9	74.6	107.2	119.1	90.5	37.8	7.2	0.4
1997	2,009.0	0.7	46.3	27.1	75.9	106.7	116.6	87.8	36.4	6.9	0.4
1996	2,005.5	0.8	48.1	28.4	78.4	107.2	116.1	86.3	35.6	6.7	0.3
1995	1,989.0	0.8	50.1	30.0	81.2	106.3	114.8	84.6	34.5	6.4	0.3
1994	1,985.0	0.8	51.1	30.7	82.1	106.2	115.5	83.2	33.7	6.2	0.3
1993	1,982.0	0.8	51.1	30.3	82.1	106.9	116.6	82.1	32.7	5.9	0.3
1992	1,993.5	0.8	51.8	30.1	83.8	108.2	118.4	81.4	32.2	5.7	0.2
1991	1,995.5	0.8	52.8	30.7	83.5	109.0	118.8	80.5	31.8	5.2	0.2
1990	2,003.0	0.7	50.8	29.5	78.0	109.8	120.7	81.7	31.5	5.2	0.2
1989	1,931.0	0.7	47.9	28.1	72.9	106.9	117.8	78.1	29.7	4.9	0.2
1988	1,856.5	0.6	44.4	26.0	69.6	103.7	114.8	75.4	27.7	4.5	0.2
1987	1,804.5	0.6	42.5	24.6	68.9	102.3	112.3	73.0	25.9	4.1	0.2
1986	1,776.0	0.6	42.3	23.8	70.1	102.7	110.8	70.9	23.9	3.8	0.2
1985	1,787.0	0.6	43.3	24.4	70.4	104.1	112.3	69.9	23.3	3.7	0.2
1984 ³	1,748.5	0.6	42.9	24.3	68.4	102.7	109.8	67.7	22.2	3.6	0.2
1983 ³	1,740.5	0.6	43.9	25.0	68.8	103.8	109.4	65.3	21.3	3.6	0.2
1982 ³	1,767.0	0.6	45.0	25.5	70.8	107.7	111.9	64.0	20.4	3.6	0.2
1981 ³	1,748.0	0.5	44.9	25.4	71.5	108.3	112.3	61.0	19.0	3.4	0.2
1980 ³	1,773.0	0.6	45.4	25.5	73.2	111.1	113.8	61.2	18.8	3.5	0.2
Black											
1999	2,146.5	2.6	81.0	52.0	122.8	141.7	101.9	64.5	30.8	6.5	0.3
1998	2,171.0	2.9	85.4	56.8	126.9	141.9	101.8	64.7	30.5	6.7	0.3
1997	2,154.0	3.3	88.2	60.8	130.1	139.0	99.5	64.3	29.7	6.5	0.3
1996	2,144.0	3.6	91.4	64.7	132.5	136.8	98.2	63.3	29.1	6.1	0.3
1995	2,175.0	4.2	96.1	69.7	137.1	137.1	98.6	64.0	28.7	6.0	0.3
1994	2,300.0	4.6	104.5	76.3	148.3	146.0	104.0	65.8	28.9	5.9	0.3
1993	2,384.5	4.6	108.6	79.8	151.9	152.6	108.4	67.3	29.2	5.9	0.3
1992	2,442.0	4.7	112.4	81.3	157.9	158.0	111.2	67.5	28.8	5.6	0.2
1991	2,480.0	4.8	115.5	84.1	158.6	160.9	113.1	67.7	28.3	5.5	0.2
1990	2,480.0	4.9	112.8	82.3	152.9	160.2	115.5	68.7	28.1	5.5	0.3
1989	2,432.5	5.1	111.5	81.9	151.9	156.8	114.4	66.3	26.7	5.4	0.3
1988	2,298.0	4.9	102.7	75.7	142.7	149.7	108.2	63.1	25.6	5.1	0.3
1987	2,198.0	4.8	97.6	72.1	135.8	142.7	104.3	60.6	24.6	4.8	0.2
1986	2,135.5	4.7	95.8	69.3	135.1	137.3	101.1	59.3	23.8	4.8	0.3
1985	2,109.0	4.5	95.4	69.3	132.4	135.0	100.2	57.9	23.9	4.6	0.3
1984 ³	2,070.5	4.4	94.1	69.2	128.1	132.2	98.4	56.7	23.3	4.8	0.2
1983 ³	2,066.0	4.1	93.9	69.6	127.1	131.9	98.4	56.2	23.3	5.1	0.3
1982 ³	2,106.5	4.0	94.3	69.7	128.9	135.4	101.3	57.5	23.3	5.1	0.4
1981 ³	2,117.5	4.0	94.5	69.3	131.0	136.5	102.3	57.4	23.1	5.4	0.3
1980 ³	2,176.5	4.3	97.8	72.5	135.1	140.0	103.9	59.9	23.5	5.6	0.3

See footnotes at end of table.

Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-99, and by age and race of mother: United States, 1980-99 --Con.

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group. Population enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

Year and race	Total fertility rate	Age of mother									
		10-14 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ¹
			Total	15-17 years	18-19 years						
American Indian⁵											
1999	2,056.5	1.6	67.8	41.4	110.6	137.1	102.4	64.3	30.7	7.1	0.3
1998	2,090.5	1.6	72.1	44.4	118.4	139.3	102.2	66.3	30.2	6.4	*
1997	2,047.5	1.7	71.8	45.3	117.6	134.9	100.8	64.2	29.3	6.4	0.4
1996	2,030.0	1.7	73.9	46.4	122.3	133.9	98.5	63.2	28.5	6.3	*
1995	2,033.5	1.8	78.0	47.8	130.7	132.5	98.4	62.2	27.7	6.1	*
1994	2,080.0	1.9	80.8	51.3	130.3	134.2	104.1	61.2	27.5	5.9	0.4
1993	2,141.0	1.4	83.1	53.7	130.7	139.8	107.6	62.8	27.6	5.9	*
1992	2,190.0	1.6	84.4	53.8	132.6	145.5	109.4	63.0	28.0	6.1	*
1991	2,169.0	1.6	85.0	52.7	134.3	144.9	106.9	61.9	27.2	5.9	0.4
1990	2,183.0	1.6	81.1	48.5	129.3	148.7	110.3	61.5	27.5	5.9	*
1989	2,247.0	1.5	82.7	51.6	128.9	152.4	114.2	64.8	27.4	6.4	*
1988	2,153.5	1.7	77.5	49.7	121.1	145.2	110.9	64.5	25.6	5.3	*
1987	2,099.0	1.7	77.2	48.8	122.2	140.0	107.9	63.0	24.4	5.6	*
1986	2,082.0	1.8	78.1	48.7	125.3	138.8	107.9	60.7	23.8	5.3	*
1985	2,128.0	1.7	79.2	47.7	124.1	139.1	109.6	62.6	27.4	6.0	*
1984 ³	2,136.0	1.7	81.5	50.7	124.7	142.4	109.2	60.5	26.3	5.6	*
1983 ³	2,180.5	1.9	84.2	55.2	121.4	145.5	113.7	58.9	25.5	6.4	*
1982 ³	2,213.0	1.4	83.5	52.6	127.6	148.1	115.8	60.9	26.9	6.0	*
1981 ³	2,090.0	2.1	78.4	49.7	121.5	141.2	105.6	58.9	25.2	6.6	*
1980 ³	2,162.5	1.9	82.2	51.5	129.5	143.7	106.6	61.8	28.1	8.2	*
Asian or Pacific Islander											
1999	1,927.0	0.3	22.3	12.3	38.0	70.0	116.4	109.3	54.6	11.6	0.9
1998	1,867.5	0.4	23.1	13.8	38.3	68.8	110.4	105.1	52.8	12.0	0.9
1997	1,925.5	0.5	23.7	14.3	39.3	70.5	113.2	110.3	54.1	11.9	0.9
1996	1,907.5	0.6	24.6	14.9	40.4	70.7	111.2	109.2	52.2	12.2	0.8
1995	1,924.0	0.7	26.1	15.4	43.4	72.4	113.4	106.9	52.4	12.1	0.8
1994	1,943.0	0.7	27.1	16.1	44.1	73.1	118.6	105.2	51.3	11.6	1.0
1993	1,935.5	0.6	27.0	16.0	43.3	73.3	119.9	103.9	50.2	11.3	0.9
1992	1,942.0	0.7	26.6	15.2	43.1	74.6	121.0	103.0	50.6	11.0	0.9
1991	1,956.0	0.8	27.4	16.1	43.1	75.2	123.2	103.3	49.0	11.2	1.1
1990	2,002.5	0.7	26.4	16.0	40.2	79.2	126.3	106.5	49.6	10.7	1.1
1989	1,947.5	0.6	25.6	15.0	40.4	78.8	124.0	102.3	47.0	10.2	1.0
1988	1,983.5	0.6	24.2	13.6	39.6	80.7	128.0	104.4	47.5	10.3	1.0
1987	1,886.0	0.6	22.4	12.6	37.0	79.7	122.7	97.0	44.2	9.5	1.1
1986	1,836.0	0.5	22.8	12.1	38.8	79.2	119.9	92.6	41.9	9.3	1.0
1985	1,885.0	0.4	23.8	12.5	40.8	83.6	123.0	93.6	42.7	8.7	1.2
1984 ³	1,892.0	0.5	24.2	12.6	40.7	86.7	124.3	92.4	40.6	8.7	1.0
1983 ³	1,943.5	0.5	26.1	12.9	44.5	94.0	126.2	93.3	39.4	8.2	1.0
1982 ³	2,015.5	0.4	29.4	14.0	50.8	98.9	130.9	94.4	39.2	8.8	1.1
1981 ³	1,976.0	0.3	28.5	13.4	49.5	96.4	129.1	93.4	38.0	8.6	0.9
1980 ³	1,953.5	0.3	26.2	12.0	46.2	93.3	127.4	96.0	38.3	8.5	0.7

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

¹ Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.

² For 1970-91 includes births to races not shown separately.

³ Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

⁴ Based on a 50-percent sample of births.

⁵ Includes births to Aleuts and Eskimos.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 5. Fertility rates and birth rates by live-birth order and race of mother: United States, 1980-99

[Rates are live births per 1,000 women aged 15-44 years. Population enumerated as of April 1 for 1980 and 1990, and estimated as of July 1 for all other years. Figures for live-birth order not stated are distributed]

Year and race of mother	Fertility rate	Live-birth order						
		1	2	3	4	5	6 and 7	8 and over
All races ¹								
1999	65.9	26.6	21.5	10.9	4.2	1.5	0.9	0.3
1998	65.6	26.4	21.4	10.8	4.2	1.5	0.9	0.3
1997	65.0	26.5	21.1	10.6	4.1	1.5	0.9	0.3
1996	65.3	26.8	21.1	10.5	4.1	1.5	0.9	0.3
1995	65.6	27.3	21.1	10.5	4.0	1.5	0.9	0.3
1994	66.7	27.5	21.5	10.7	4.2	1.6	1.0	0.3
1993	67.6	27.5	21.9	11.0	4.3	1.6	1.0	0.3
1992	68.9	27.8	22.3	11.3	4.4	1.7	1.0	0.3
1991	69.6	28.3	22.4	11.4	4.5	1.7	1.0	0.3
1990	70.9	29.0	22.8	11.7	4.5	1.7	1.0	0.3
1989	69.2	28.4	22.4	11.3	4.3	1.6	0.9	0.3
1988	67.3	27.6	22.0	10.9	4.1	1.5	0.9	0.3
1987	65.8	27.2	21.6	10.5	3.9	1.4	0.8	0.3
1986	65.4	27.2	21.6	10.3	3.8	1.4	0.8	0.3
1985	66.3	27.6	22.0	10.4	3.8	1.4	0.8	0.3
1984 ²	65.5	27.4	21.7	10.1	3.7	1.4	0.9	0.3
1983 ²	65.7	27.8	21.5	10.1	3.7	1.4	0.9	0.3
1982 ²	67.3	28.6	22.0	10.2	3.8	1.4	0.9	0.3
1981 ²	67.3	29.0	21.6	10.1	3.8	1.5	0.9	0.4
1980 ²	68.4	29.5	21.8	10.3	3.9	1.5	1.0	0.4
White								
1999	65.1	26.4	21.6	10.8	4.0	1.4	0.8	0.2
1998	64.6	26.1	21.5	10.7	3.9	1.3	0.8	0.2
1997	63.9	26.2	21.2	10.4	3.8	1.3	0.8	0.2
1996	64.3	26.6	21.2	10.4	3.8	1.3	0.8	0.2
1995	64.4	26.9	21.1	10.3	3.8	1.3	0.7	0.2
1994	64.9	27.0	21.4	10.4	3.8	1.3	0.8	0.2
1993	65.4	27.0	21.7	10.5	3.9	1.4	0.8	0.2
1992	66.5	27.3	22.0	10.8	4.0	1.4	0.8	0.2
1991	67.0	27.8	22.0	10.8	4.0	1.4	0.8	0.2
1990	68.3	28.4	22.4	11.1	4.0	1.4	0.8	0.2
1989	66.4	27.6	21.9	10.7	3.8	1.3	0.7	0.2
1988	64.5	26.8	21.6	10.4	3.6	1.2	0.7	0.2
1987	63.3	26.5	21.3	10.0	3.5	1.2	0.7	0.2
1986	63.1	26.6	21.3	9.8	3.4	1.2	0.7	0.2
1985	64.1	27.0	21.8	9.9	3.4	1.2	0.7	0.2
1984 ²	63.2	26.8	21.4	9.6	3.3	1.2	0.7	0.2
1983 ²	63.4	27.2	21.2	9.5	3.3	1.2	0.7	0.2
1982 ²	64.8	28.0	21.6	9.6	3.4	1.2	0.7	0.3
1981 ²	64.8	28.4	21.1	9.5	3.4	1.2	0.8	0.3
1980 ²	65.6	28.8	21.3	9.6	3.4	1.3	0.8	0.3
Black								
1999	70.1	26.5	20.9	12.4	5.7	2.5	1.7	0.6
1998	71.0	27.0	21.1	12.3	5.7	2.6	1.7	0.6
1997	70.7	27.3	20.7	12.1	5.7	2.5	1.8	0.6
1996	70.7	27.6	20.5	12.0	5.6	2.6	1.8	0.6
1995	72.3	28.7	20.7	12.0	5.7	2.6	1.8	0.6
1994	76.9	29.8	22.2	13.1	6.3	2.9	2.0	0.6
1993	80.5	30.2	23.4	14.1	6.9	3.1	2.2	0.7
1992	83.2	30.6	24.3	15.0	7.2	3.3	2.2	0.6
1991	85.2	31.5	25.0	15.4	7.4	3.3	2.1	0.6
1990	86.8	32.4	25.6	15.6	7.4	3.2	2.0	0.6
1989	86.2	32.9	25.4	15.3	7.1	3.0	1.9	0.6
1988	82.6	31.8	24.6	14.4	6.6	2.8	1.8	0.5
1987	80.1	31.2	23.8	13.9	6.3	2.7	1.7	0.5
1986	78.9	31.0	23.4	13.5	6.1	2.6	1.7	0.5
1985	78.8	31.0	23.4	13.4	6.1	2.6	1.7	0.5
1984 ²	78.1	30.9	23.0	13.2	6.0	2.6	1.7	0.6
1983 ²	78.7	31.1	23.1	13.2	6.1	2.7	1.8	0.6
1982 ²	80.9	31.7	23.9	13.8	6.3	2.7	1.8	0.7
1981 ²	82.0	32.3	24.2	13.7	6.3	2.8	1.9	0.8
1980 ²	84.9	33.7	24.7	14.0	6.5	2.9	2.1	0.9

¹ Includes races other than white and black.

² Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States: see Technical notes.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 6. Live births, birth rates, and fertility rates by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-99

[Birth rates are live births per 1,000 population in specified group. Fertility rates are live births per 1,000 women aged 15-44 years in specified group]

Measure and year	Hispanic						Non-Hispanic			
	All origins ¹	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
Number										
1999	3,959,417	764,339	540,674	57,138	13,088	103,307	50,132	3,147,580	2,346,450	588,981
1998	3,941,553	734,661	516,011	57,349	13,226	98,226	49,849	3,158,975	2,361,462	593,127
1997	3,880,894	709,767	499,024	55,450	12,887	97,405	45,001	3,115,174	2,333,363	581,431
1996	3,891,494	701,339	489,666	54,863	12,613	97,888	46,309	3,133,484	2,358,989	578,099
1995	3,899,589	679,768	469,615	54,824	12,473	94,996	47,860	3,160,495	2,382,638	587,781
1994	3,952,767	665,026	454,536	57,240	11,889	93,485	47,876	3,245,115	2,438,855	619,198
1993	4,000,240	654,418	443,733	58,102	11,916	92,371	48,296	3,295,345	2,472,031	641,273
1992 ³	4,049,024	643,271	432,047	59,569	11,472	89,031	51,152	3,365,862	2,527,207	657,450
1991 ³	4,094,566	623,085	411,233	59,833	11,058	86,908	54,053	3,434,464	2,589,878	666,758
1990 ⁴	4,092,994	595,073	385,640	58,807	11,311	83,008	56,307	3,457,417	2,626,500	661,701
1989 ⁵	3,903,012	532,249	327,233	56,229	10,842	72,443	65,502	3,297,493	2,526,367	611,269
Birth rate										
1999	14.5	24.4	26.4	19.4	9.7	⁶ 23.4		13.2	12.2	17.9
1998	14.6	24.3	26.4	19.0	10.0	⁶ 23.2		13.4	12.3	18.2
1997	14.5	24.2	26.8	18.1	10.1	⁶ 22.4		13.3	12.2	18.1
1996	14.7	24.8	27.4	17.9	10.7	⁶ 23.4		13.5	12.4	18.3
1995	14.8	25.2	26.9	19.7	11.0	⁶ 25.3		13.7	12.6	18.8
1994	15.2	25.5	27.0	21.4	10.8	⁶ 25.7		14.0	12.8	20.0
1993	15.5	26.0	27.4	21.9	10.5	⁶ 26.9		14.4	13.1	21.1
1992 ⁷	15.9	26.5	27.8	23.2	10.1	⁶ 27.9		14.8	13.5	21.9
1991 ⁷	16.3	26.7	29.2	21.0	10.1	⁶ 26.5		15.2	13.9	22.5
1990 ⁴	16.7	26.7	28.7	21.6	10.9	⁶ 27.5		15.7	14.4	23.0
1989 ⁵	16.3	26.2	25.7	23.7	10.0	⁶ 28.3		15.4	14.2	22.8
Fertility rate										
1999	65.9	102.0	111.6	77.7	51.2	⁶ 92.6		60.7	57.8	72.2
1998	65.6	101.1	112.1	75.5	50.1	⁶ 90.2		60.7	57.7	73.0
1997	65.0	102.8	116.6	71.7	57.4	⁶ 87.6		60.1	57.0	72.4
1996	65.3	104.9	119.3	71.3	58.9	⁶ 90.2		60.3	57.3	72.5
1995	65.6	105.0	117.0	75.7	55.1	⁶ 94.5		60.8	57.6	74.5
1994	66.7	105.6	115.4	81.9	55.9	⁶ 97.7		62.0	58.3	79.0
1993	67.6	106.9	114.8	82.5	55.5	⁶ 105.0		63.1	59.0	82.7
1992 ⁷	68.9	108.6	116.0	89.9	50.3	⁶ 107.0		64.4	60.2	85.5
1991 ⁷	69.6	108.1	121.6	80.9	49.1	⁶ 99.3		65.4	61.0	87.6
1990 ⁴	71.0	107.7	118.9	82.9	52.6	⁶ 102.7		67.1	62.8	89.0
1989 ⁵	69.2	104.9	106.6	86.6	49.8	⁶ 95.8		65.7	60.5	84.8

¹ Includes origin not stated.² Includes races other than white and black.³ Excludes data for New Hampshire, which did not report Hispanic origin.⁴ Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.⁵ Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.⁶ Includes Central and South American and other and unknown Hispanic.⁷ Rates are estimated for the United States based on birth data for 49 States and the District of Columbia. Births for New Hampshire that did not report Hispanic origin, are included in the rates for non-Hispanic women; see Technical notes.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1999

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

Live-birth order and origin of mother	All ages	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	15 years	16 years	17 years	18 years								19 years
Hispanic															
Total	764,339	2,725	124,677	7,288	15,828	25,113	33,806	42,642	231,475	203,985	131,369	58,146	11,440	513	9
1st child	283,116	2,638	94,218	6,880	14,220	20,565	24,854	27,699	98,947	53,434	23,997	8,375	1,433	73	1
2d child	232,784	52	24,478	320	1,364	3,906	7,346	11,542	82,799	70,561	38,531	14,102	2,183	76	2
3d child	141,471	2	4,282	18	85	389	1,143	2,647	35,149	48,762	35,847	14,939	2,403	84	3
4th child	61,448	-	502	2	3	31	118	348	10,098	20,172	18,759	9,840	2,007	69	1
5th child	23,891	-	69	-	1	2	14	52	2,404	6,776	7,957	5,305	1,316	63	1
6th child	9,621	-	4	2	-	-	1	1	465	2,222	3,313	2,713	850	54	-
7th child	4,053	-	1	-	-	-	-	1	125	690	1,396	1,289	522	30	-
8th child and over	3,491	-	-	-	-	-	-	-	35	401	992	1,320	681	61	1
Not stated	4,464	33	1,123	66	155	220	330	352	1,453	967	577	263	45	3	-
Mexican															
Total	540,674	2,031	92,204	5,450	11,809	18,716	24,932	31,297	169,899	146,115	86,834	36,182	7,089	317	3
1st child	195,036	1,961	69,110	5,110	10,564	15,253	18,055	20,128	70,889	35,060	13,028	4,253	700	35	-
2d child	161,317	41	18,488	263	1,044	2,961	5,614	8,606	61,576	50,033	22,959	7,143	1,046	31	-
3d child	102,687	1	3,255	15	63	297	885	1,995	26,414	36,945	25,331	9,351	1,349	40	1
4th child	46,439	-	372	2	3	21	93	253	7,605	15,586	14,398	7,056	1,374	48	-
5th child	18,457	-	55	-	1	2	13	39	1,844	5,246	6,262	4,033	972	44	1
6th child	7,457	-	3	2	-	-	-	1	353	1,705	2,592	2,113	652	39	-
7th child	3,151	-	1	-	-	-	-	1	91	521	1,094	1,020	401	23	-
8th child and over	2,760	-	-	-	-	-	-	-	30	302	768	1,035	570	54	1
Not stated	3,370	28	920	58	134	182	272	274	1,097	717	402	178	25	3	-
Puerto Rican															
Total	57,138	242	11,836	677	1,508	2,440	3,226	3,985	18,289	13,616	8,607	3,765	755	27	1
1st child	22,359	238	8,857	655	1,367	1,974	2,383	2,478	6,903	3,603	1,923	679	146	10	-
2d child	17,783	2	2,362	17	118	394	678	1,155	6,640	4,560	2,882	1,167	165	5	-
3d child	9,722	-	418	-	10	43	115	250	3,164	3,047	1,939	958	187	8	1
4th child	4,023	-	66	-	-	4	13	49	1,054	1,389	972	432	109	1	-
5th child	1,531	-	5	-	-	-	1	4	265	541	422	246	51	1	-
6th child	644	-	-	-	-	-	-	-	56	222	211	111	43	1	-
7th child	288	-	-	-	-	-	-	-	12	81	102	68	24	1	-
8th child and over	243	-	-	-	-	-	-	-	1	51	83	83	25	-	-
Not stated	545	2	128	5	13	25	36	49	194	122	73	21	5	-	-
Cuban															
Total	13,088	25	980	56	119	179	259	367	2,420	3,659	3,629	2,027	334	14	-
1st child	5,723	24	805	53	114	153	211	274	1,423	1,726	1,181	475	85	4	-
2d child	4,828	-	149	3	4	26	40	76	768	1,367	1,587	837	117	3	-
3d child	1,830	-	24	-	1	-	8	15	191	427	641	464	80	3	-
4th child	468	-	2	-	-	-	-	2	28	95	157	152	31	3	-
5th child	138	-	-	-	-	-	-	-	5	29	43	48	12	1	-
6th child	47	-	-	-	-	-	-	-	2	7	11	26	1	-	-
7th child	18	-	-	-	-	-	-	-	1	2	4	8	3	-	-
8th child and over	18	-	-	-	-	-	-	-	-	1	3	11	3	-	-
Not stated	18	1	-	-	-	-	-	-	2	5	2	6	2	-	-
Central and South American															
Total	103,307	182	10,112	460	1,115	1,862	2,792	3,883	25,850	28,472	23,759	12,259	2,540	131	2
1st child	39,477	176	8,121	439	1,018	1,600	2,247	2,817	13,314	9,485	5,789	2,204	367	20	1
2d child	33,300	4	1,666	19	85	234	475	853	8,517	10,334	8,291	3,799	658	30	1
3d child	18,681	1	266	1	8	22	52	183	3,033	5,684	5,848	3,203	617	29	-
4th child	7,194	-	22	-	-	2	5	15	722	2,017	2,367	1,645	406	15	-
5th child	2,543	-	5	-	-	-	-	5	129	604	848	728	215	14	-
6th child	1,028	-	1	-	-	-	1	-	25	181	335	351	124	11	-
7th child	418	-	-	-	-	-	-	-	8	53	126	147	79	5	-
8th child and over	328	-	-	-	-	-	-	-	3	29	91	135	63	7	-
Not stated	338	1	31	1	4	4	12	10	99	85	64	47	11	-	-
Other and unknown															
Total	50,132	245	9,545	645	1,277	1,916	2,597	3,110	15,017	12,123	8,540	3,913	722	24	3
1st child	20,521	239	7,325	623	1,157	1,585	1,958	2,002	6,418	3,560	2,076	764	135	4	-
2d child	15,556	5	1,813	18	113	291	539	852	5,298	4,267	2,812	1,156	197	7	1
3d child	8,551	-	319	2	3	27	83	204	2,347	2,659	2,088	963	170	4	1
4th child	3,324	-	40	-	-	4	7	29	689	1,085	865	555	87	2	1
5th child	1,222	-	4	-	-	-	-	4	161	356	382	250	66	3	-
6th child	445	-	-	-	-	-	-	-	29	107	164	112	30	3	-
7th child	178	-	-	-	-	-	-	-	13	33	70	46	15	1	-
8th child and over	142	-	-	-	-	-	-	-	1	18	47	56	20	-	-
Not stated	193	1	44	2	4	9	10	19	61	38	36	11	2	-	-

See footnotes at end of table.

Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1999 --Con.

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

Live-birth order and origin of mother	All ages	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	15 years	16 years	17 years	18 years								19 years
Non-Hispanic															
Total ¹	3,147,580	6,240	346,698	15,409	35,189	63,243	98,809	134,048	740,611	861,802	748,604	369,586	70,317	3,569	153
1st child	1,287,491	6,102	273,298	14,753	32,379	54,652	77,857	93,657	345,192	334,448	225,757	85,893	15,856	894	51
2d child	1,037,940	106	60,245	583	2,516	7,504	17,539	32,103	252,823	299,186	278,936	125,128	20,612	868	36
3d child	504,463	5	10,272	15	158	750	2,684	6,665	101,006	144,407	148,395	85,112	14,606	630	30
4th child	186,191	1	1,344	1	11	57	301	974	29,196	52,341	55,968	38,977	7,968	380	16
5th child	66,336	-	165	-	-	4	37	124	7,529	18,088	20,076	15,935	4,326	216	1
6th child	27,365	-	25	-	2	3	4	16	1,896	6,608	8,887	7,494	2,308	144	3
7th child	12,596	-	5	-	-	-	2	3	416	2,433	4,141	4,041	1,455	97	8
8th child and over	14,012	-	3	-	-	-	1	2	154	1,451	3,769	5,459	2,851	320	5
Not stated	11,186	26	1,341	57	123	273	384	504	2,399	2,840	2,675	1,547	335	20	3
White	2,346,450	2,048	212,923	6,963	18,886	37,671	62,282	87,121	514,386	663,569	600,830	294,590	55,175	2,808	121
1st child	971,745	2,015	174,664	6,766	17,903	33,917	51,692	64,386	256,066	270,261	184,810	70,162	12,966	762	39
2d child	794,532	25	32,729	160	858	3,347	9,271	19,093	177,643	236,926	229,123	100,789	16,564	701	32
3d child	372,667	-	4,215	3	45	231	981	2,955	61,617	106,540	119,601	68,825	11,351	491	27
4th child	127,988	-	400	-	1	12	77	310	14,162	33,956	42,353	30,650	6,158	295	14
5th child	40,983	-	49	-	-	1	10	38	2,651	9,702	13,552	11,705	3,172	151	1
6th child	15,669	-	7	-	1	1	-	5	521	2,860	5,338	5,185	1,653	103	2
7th child	6,923	-	2	-	-	-	1	1	88	886	2,244	2,641	993	65	4
8th child and over	7,816	-	1	-	-	-	-	1	56	378	1,674	3,422	2,058	227	-
Not stated	8,127	8	856	34	78	162	250	332	1,582	2,060	2,135	1,211	260	13	2
Black	588,981	3,890	118,285	7,698	14,573	22,580	32,155	41,279	188,247	134,784	88,403	45,746	9,223	392	11
1st child	221,337	3,786	86,434	7,282	12,894	18,195	22,799	25,264	69,070	33,356	19,041	8,089	1,497	58	6
2d child	174,340	81	24,843	383	1,528	3,773	7,453	11,706	63,831	42,819	27,474	13,044	2,164	82	2
3d child	103,413	4	5,579	9	102	473	1,557	3,438	35,068	30,190	19,956	10,534	2,008	73	1
4th child	47,666	1	870	1	10	37	198	624	13,581	15,308	10,446	6,145	1,266	49	-
5th child	21,029	-	108	-	-	2	25	81	4,425	7,127	5,135	3,344	844	46	-
6th child	9,630	-	17	-	1	2	4	10	1,236	3,222	2,869	1,773	489	24	-
7th child	4,595	-	3	-	-	-	1	2	295	1,326	1,515	1,083	354	18	1
8th child and over	4,717	-	2	-	-	-	1	1	84	898	1,609	1,531	553	40	-
Not stated	2,254	18	429	23	38	98	117	153	657	538	358	203	48	2	1

- Quantity zero.

¹ Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1999

[Rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

Live-birth order and origin of mother	15-44 years ¹	Age of mother									
		10-14 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ²
			Total	15-17 years	18-19 years						
Hispanic											
Total	102.0	2.0	93.4	61.3	139.4	178.7	163.1	102.2	46.3	10.7	0.6
1st child	38.0	2.0	71.2	53.4	96.7	76.9	42.9	18.8	6.7	1.3	0.1
2d child	31.3	0.0	18.5	7.2	34.8	64.3	56.7	30.1	11.3	2.0	0.1
3d child	19.0	*	3.2	0.6	7.0	27.3	39.2	28.0	12.0	2.3	0.1
4th child	8.3	*	0.4	0.0	0.9	7.8	16.2	14.7	7.9	1.9	0.1
5th child	3.2	*	0.1	*	0.1	1.9	5.4	6.2	4.2	1.2	0.1
6th and 7th child	1.8	*	*	*	*	0.5	2.3	3.7	3.2	1.3	0.1
8th child and over	0.5	*	*	*	*	0.0	0.3	0.8	1.1	0.6	0.1
Mexican	111.6	2.3	101.5	65.4	156.8	194.2	169.8	107.9	49.1	10.8	0.7
1st child	40.5	2.2	76.8	56.8	107.5	81.5	40.9	16.3	5.8	1.1	0.1
2d child	33.5	0.0	20.6	7.8	40.0	70.8	58.4	28.7	9.7	1.6	0.1
3d child	21.3	*	3.6	0.7	8.1	30.4	43.1	31.6	12.8	2.1	0.1
4th child	9.6	*	0.4	0.0	1.0	8.7	18.2	18.0	9.6	2.1	0.1
5th child	3.8	*	0.1	*	0.1	2.1	6.1	7.8	5.5	1.5	0.1
6th and 7th child	2.2	*	*	*	*	0.5	2.6	4.6	4.3	1.6	0.1
8th child and over	0.6	*	*	*	*	0.0	0.4	1.0	1.4	0.9	0.1
Puerto Rican	77.7	1.7	79.7	53.2	117.1	166.0	127.9	64.3	28.4	7.3	0.3
1st child	30.7	1.7	60.3	46.4	79.9	63.3	34.1	14.5	5.1	1.4	*
2d child	24.4	*	16.1	6.1	30.1	60.9	43.2	21.7	8.8	1.6	*
3d child	13.3	*	2.8	0.6	6.0	29.0	28.9	14.6	7.3	1.8	*
4th child	5.5	*	0.5	*	1.0	9.7	13.2	7.3	3.3	1.1	*
5th child	2.1	*	*	*	*	2.4	5.1	3.2	1.9	0.5	*
6th and 7th child	1.3	*	*	*	*	0.6	2.9	2.4	1.4	0.6	*
8th child and over	0.3	*	*	*	*	*	0.5	0.6	0.6	0.2	*
Cuban	51.2	0.7	27.1	15.7	46.2	71.8	92.8	72.9	39.6	7.4	*
1st child	22.4	0.7	22.3	14.2	35.8	42.2	43.8	23.7	9.3	1.9	*
2d child	18.9	*	4.1	1.5	8.6	22.8	34.7	31.9	16.4	2.6	*
3d child	7.2	*	0.7	*	1.7	5.7	10.9	12.9	9.1	1.8	*
4th child	1.8	*	*	*	*	0.8	2.4	3.2	3.0	0.7	*
5th child	0.5	*	*	*	*	*	0.7	0.9	0.9	*	*
6th and 7th child	0.3	*	*	*	*	*	*	*	0.7	*	*
8th child and over	*	*	*	*	*	*	*	*	*	*	*
Other Hispanic ³	92.6	1.6	81.3	57.1	108.2	148.0	166.2	108.8	48.3	12.4	0.7
1st child	36.3	1.6	64.1	50.6	79.2	71.8	53.6	26.6	8.9	1.9	0.1
2d child	29.6	*	14.4	6.0	23.8	50.2	60.0	37.5	14.9	3.3	0.2
3d child	16.5	*	2.4	0.5	4.6	19.6	34.3	26.8	12.5	3.0	0.2
4th child	6.4	*	0.3	*	0.5	5.1	12.7	10.9	6.6	1.9	*
5th child	2.3	*	*	*	*	1.1	3.9	4.2	2.9	1.1	*
6th and 7th child	1.3	*	*	*	*	0.3	1.5	2.3	2.0	0.9	0.1
8th child and over	0.3	*	*	*	*	*	0.2	0.5	0.6	0.3	*

See footnotes at end of table.

Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1999 --Con.

[Rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

Live-birth order and origin of mother	15-44 years ¹	Age of mother									
		10-14 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ²
			Total	15-17 years	18-19 years						
Non-Hispanic ⁴											
Total ⁵	60.7	0.8	42.5	23.5	70.6	99.4	110.6	87.8	37.3	7.1	0.4
1st child	24.9	0.8	33.7	21.1	52.2	46.5	43.1	26.6	8.7	1.6	0.1
2d child	20.1	0.0	7.4	2.2	15.1	34.1	38.5	32.8	12.7	2.1	0.1
3d child	9.8	*	1.3	0.2	2.8	13.6	18.6	17.4	8.6	1.5	0.1
4th child	3.6	*	0.2	0.0	0.4	3.9	6.7	6.6	4.0	0.8	0.0
5th child	1.3	*	0.0	*	0.0	1.0	2.3	2.4	1.6	0.4	0.0
6th and 7th child	0.8	*	0.0	*	0.0	0.3	1.2	1.5	1.2	0.4	0.0
8th child and over	0.3	*	*	*	*	0.0	0.2	0.4	0.6	0.3	0.0
White	57.8	0.3	34.0	17.1	58.9	89.9	111.0	90.3	37.3	6.8	0.4
1st child	24.0	0.3	28.0	15.8	46.0	44.9	45.3	27.9	8.9	1.6	0.1
2d child	19.6	0.0	5.3	1.2	11.2	31.2	39.7	34.6	12.8	2.1	0.1
3d child	9.2	*	0.7	0.1	1.6	10.8	17.9	18.0	8.7	1.4	0.1
4th child	3.2	*	0.1	*	0.2	2.5	5.7	6.4	3.9	0.8	0.0
5th child	1.0	*	0.0	*	0.0	0.5	1.6	2.0	1.5	0.4	0.0
6th and 7th child	0.6	*	*	*	*	0.1	0.6	1.2	1.0	0.3	0.0
8th child and over	0.2	*	*	*	*	0.0	0.1	0.3	0.4	0.3	0.0
Black	72.2	2.7	83.7	53.7	126.8	146.3	104.9	66.3	31.5	6.7	0.4
1st child	27.2	2.7	61.4	46.1	83.3	53.9	26.1	14.4	5.6	1.1	0.1
2d child	21.4	0.1	17.6	6.8	33.2	49.8	33.4	20.7	9.0	1.6	0.1
3d child	12.7	*	4.0	0.7	8.6	27.3	23.6	15.0	7.3	1.5	0.1
4th child	5.9	*	0.6	0.1	1.4	10.6	11.9	7.9	4.3	0.9	0.0
5th child	2.6	*	0.1	*	0.2	3.5	5.6	3.9	2.3	0.6	0.0
6th and 7th child	1.8	*	0.0	*	*	1.2	3.6	3.3	2.0	0.6	0.0
8th child and over	0.6	*	*	*	*	0.1	0.7	1.2	1.1	0.4	0.0

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

0.0 Quantity more than zero but less than 0.05.

¹ Fertility rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.² Birth rates computed by relating births to women aged 45-54 years to women aged 45-49 years.³ Includes Central and South American and other and unknown Hispanic.⁴ Includes origin not stated.⁵ Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin;

Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-99

[Fertility rates are live births per 1,000 women aged 15-44 years in specified racial group and birth rates are live births per 1,000 women in specified age and racial group. Population enumerated as of April 1 for 1990, and estimated as of July 1 for all other years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

Year and origin/race of mother	Total fertility rate	Fertility rate [†]	Age of mother									
			10-14 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ²
				Total	15-17 years	18-19 years						
All origins												
1999	2,075.0	65.9	0.9	49.6	28.7	80.3	111.0	117.8	89.6	38.3	7.4	0.4
1998	2,058.5	65.6	1.0	51.1	30.4	82.0	111.2	115.9	87.4	37.4	7.3	0.4
1997	2,032.5	65.0	1.1	52.3	32.1	83.6	110.4	113.8	85.3	36.1	7.1	0.4
1996	2,027.0	65.3	1.2	54.4	33.8	86.0	110.4	113.1	83.9	35.3	6.8	0.3
1995	2,019.0	65.6	1.3	56.8	36.0	89.1	109.8	112.2	82.5	34.3	6.6	0.3
1994	2,036.0	66.7	1.4	58.9	37.6	91.5	111.1	113.9	81.5	33.7	6.4	0.3
1993	2,046.0	67.6	1.4	59.6	37.8	92.1	112.6	115.5	80.8	32.9	6.1	0.3
1992	2,065.0	68.9	1.4	60.7	37.8	94.5	114.6	117.4	80.2	32.5	5.9	0.3
1991	2,073.0	69.6	1.4	62.1	38.7	94.4	115.7	118.2	79.5	32.0	5.5	0.2
1990	2,081.0	70.9	1.4	59.9	37.5	88.6	116.5	120.2	80.8	31.7	5.5	0.2
1989	2,014.0	69.2	1.4	57.3	36.4	84.2	113.8	117.6	77.4	29.9	5.2	0.2
Hispanic												
Total												
1999	2,985.0	102.0	2.0	93.4	61.3	139.4	178.7	163.1	102.2	46.3	10.7	0.6
1998	2,947.5	101.1	2.1	93.6	62.3	140.1	178.4	160.2	98.9	44.9	10.8	0.6
1997	2,999.5	102.8	2.3	97.4	66.3	144.3	184.2	161.7	97.9	45.0	10.8	0.6
1996	3,047.5	104.9	2.6	101.8	69.0	151.1	189.5	161.0	98.1	45.1	10.8	0.6
1995	3,019.5	105.0	2.7	106.7	72.9	157.9	188.5	153.8	95.9	44.9	10.8	0.6
1994	3,014.0	105.6	2.7	107.7	74.0	158.0	188.2	153.2	95.4	44.3	10.7	0.6
1993	3,020.5	106.9	2.7	106.8	71.7	159.1	188.3	154.0	96.4	44.7	10.6	0.6
1992 ³	3,043.0	108.6	2.6	107.1	71.4	159.7	190.6	154.4	96.8	45.6	10.9	0.6
1991 ³	3,002.5	108.1	2.4	106.7	70.6	158.5	186.3	152.8	96.1	44.9	10.7	0.6
1990 ⁴	2,959.5	107.7	2.4	100.3	65.9	147.7	181.0	153.0	98.3	45.3	10.9	0.7
1989 ⁵	2,903.5	104.9	2.3	100.8	---	---	184.4	146.6	92.1	43.5	10.4	0.6
Mexican												
1999	3,181.5	111.6	2.3	101.5	65.4	156.8	194.2	169.8	107.9	49.1	10.8	0.7
1998	3,198.0	112.1	2.2	102.7	67.0	159.1	197.6	173.5	103.7	48.4	10.9	0.6
1997	3,307.5	116.6	2.5	112.4	77.3	165.1	204.9	176.3	104.2	49.0	11.6	0.6
1996	3,353.5	119.3	2.8	120.7	83.4	174.3	206.3	176.9	103.7	47.6	12.0	0.7
1995	3,273.5	117.0	2.8	124.6	84.4	185.3	208.9	160.5	98.5	46.8	11.9	0.7
1994	3,211.5	115.4	2.8	116.2	78.0	175.0	202.6	165.2	96.9	46.2	11.7	0.7
1993	3,174.0	114.8	2.6	108.7	71.6	164.9	196.6	168.2	100.5	46.1	11.3	0.8
1992 ³	3,196.5	116.0	2.5	108.8	---	---	202.3	166.3	99.1	47.7	11.8	0.8
1991 ³	3,317.5	121.6	2.6	117.3	75.9	178.4	209.9	168.2	103.3	49.1	12.3	0.8
1990 ⁴	3,214.0	118.9	2.5	108.0	69.7	162.2	200.3	165.3	104.4	49.1	12.4	0.8
1989 ⁵	2,916.5	106.6	2.0	94.5	---	---	184.3	153.7	96.1	41.0	11.1	0.6
Puerto Rican												
1999	2,378.0	77.7	1.7	79.7	53.2	117.1	166.0	127.9	64.3	28.4	7.3	0.3
1998	2,268.0	75.5	1.9	81.2	55.1	120.7	164.2	104.4	67.6	26.7	7.2	0.4
1997	2,164.0	71.7	1.8	74.9	48.9	120.0	154.0	109.3	59.1	27.0	6.2	0.5
1996	2,163.0	71.3	2.1	82.3	52.2	143.2	148.8	109.4	58.3	25.9	5.6	*
1995	2,245.5	75.7	3.0	89.0	61.2	139.2	151.5	107.2	64.8	27.7	5.6	0.3
1994	2,490.0	81.9	3.2	106.0	72.8	168.4	181.0	111.7	62.3	28.0	5.6	0.2
1993	2,523.5	82.5	3.1	110.0	73.4	181.0	193.1	108.4	56.3	27.1	6.2	0.5
1992 ³	2,644.5	89.9	3.5	110.4	---	---	204.9	106.6	66.7	30.0	6.5	0.3
1991 ³	2,276.0	80.9	2.5	102.7	75.2	143.0	149.4	107.5	61.4	25.7	5.7	0.3
1990 ⁴	2,301.0	82.9	2.9	101.6	71.6	141.6	150.1	109.9	62.8	26.2	6.2	0.5
1989 ⁵	2,421.0	86.6	3.8	112.7	---	---	171.0	98.0	65.2	26.9	6.3	0.3
Cuban												
1999	1,563.0	51.2	0.7	27.1	15.7	46.2	71.8	92.8	72.9	39.6	7.4	*
1998	1,560.0	50.1	0.8	24.2	15.6	38.8	85.6	95.2	64.5	34.2	7.1	*
1997	1,814.5	57.4	1.0	38.3	25.3	53.4	82.7	123.5	75.7	35.1	6.3	0.3
1996	1,774.5	58.9	0.9	34.0	19.8	54.5	82.5	110.7	85.9	34.3	6.4	*
1995	1,705.5	55.1	*	29.2	16.6	51.2	77.0	110.6	88.0	29.8	6.0	*
1994	1,680.5	55.9	0.6	40.2	23.1	77.4	72.5	98.4	87.6	31.3	5.5	*
1993	1,632.5	55.5	*	33.0	20.4	49.7	68.9	102.0	86.9	31.0	4.7	*
1992 ³	1,485.5	50.3	1.0	26.3	---	---	51.6	98.4	86.2	28.9	4.7	0.0
1991 ³	1,385.5	49.1	*	27.7	17.5	41.3	61.2	88.8	68.2	26.7	4.0	*
1990 ⁴	1,459.5	52.6	*	30.3	18.2	46.1	64.6	95.4	67.6	28.2	4.9	*
1989 ⁵	1,479.0	49.8	0.5	25.1	---	---	64.2	101.8	73.7	27.2	3.0	0.3

See footnotes at end of table.

Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-99 --Con.

[Fertility rates are live births per 1,000 women aged 15-44 years in specified racial group and birth rates are live births per 1,000 women in specified age and racial group. Population enumerated as of April 1 for 1990, and estimated as of July 1 for all other years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

Year and origin/race of mother	Total fertility rate	Fertility rate ¹	Age of mother									
			10-14 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years ²
				Total	15-17 years	18-19 years						
Other Hispanic⁶												
1999	2,836.5	92.6	1.6	81.3	57.1	108.2	148.0	166.2	108.8	48.3	12.4	0.7
1998	2,719.0	90.2	1.9	80.0	56.7	106.9	137.4	157.2	106.9	46.9	12.9	0.6
1997	2,653.5	87.6	2.0	72.1	48.3	106.8	146.4	147.9	104.4	45.4	11.8	0.7
1996	2,762.0	90.2	2.4	69.8	46.6	103.1	166.5	146.3	105.3	50.4	11.0	0.7
1995	2,834.0	94.5	2.4	77.5	54.8	107.8	158.3	161.8	103.7	50.9	11.6	0.6
1994	2,855.5	97.7	2.6	87.9	66.4	112.4	162.0	147.4	109.3	49.4	11.9	0.6
1993	3,038.5	105.0	2.7	106.9	78.2	141.7	175.2	147.1	110.4	52.4	12.5	0.5
1992 ³	3,076.0	107.0	2.5	112.1	---	---	172.9	157.8	106.6	50.3	12.5	0.5
1991 ³	2,817.0	99.3	2.1	88.1	58.9	128.8	161.1	150.6	101.5	48.2	11.2	0.6
1990 ⁴	2,877.0	102.7	2.1	86.0	57.2	123.8	162.9	155.8	106.9	49.4	11.6	0.7
1989 ⁵	2,683.0	95.8	1.7	66.4	---	---	159.2	150.4	85.1	60.3	12.7	0.8
Non-Hispanic⁷												
Total⁸												
1999	1,929.5	60.7	0.8	42.5	23.5	70.6	99.4	110.6	87.8	37.3	7.1	0.4
1998	1,919.5	60.7	0.8	44.3	25.4	72.8	99.9	109.3	85.7	36.5	7.0	0.4
1997	1,888.5	60.1	0.9	45.5	27.0	74.3	98.6	107.0	83.5	35.1	6.7	0.4
1996	1,881.0	60.3	1.0	47.3	28.7	76.2	98.4	106.5	82.0	34.2	6.5	0.3
1995	1,881.0	60.8	1.1	49.6	30.7	79.0	98.5	106.4	80.9	33.2	6.2	0.3
1994	1,905.0	62.0	1.2	52.0	32.5	81.8	100.4	108.6	79.9	32.6	6.0	0.3
1993	1,918.5	63.1	1.2	52.9	33.1	82.6	102.5	110.4	79.0	31.7	5.7	0.3
1992 ³	1,941.0	64.4	1.2	54.4	33.2	85.5	104.7	112.7	78.4	31.2	5.4	0.2
1991 ³	1,959.5	65.4	1.3	56.1	34.4	86.1	106.6	114.0	77.8	30.8	5.1	0.2
1990 ⁴	1,979.5	67.1	1.3	54.8	33.8	81.4	108.1	116.5	79.2	30.7	5.1	0.2
1989 ⁵	1,921.0	65.7	1.3	53.4	---	---	107.8	113.4	74.7	28.6	4.8	0.2
White												
1999	1,850.0	57.8	0.3	34.0	17.1	58.9	89.9	111.0	90.3	37.3	6.8	0.4
1998	1,837.0	57.7	0.3	35.2	18.4	60.6	90.7	109.7	88.0	36.4	6.7	0.4
1997	1,801.0	57.0	0.4	36.0	19.4	61.9	89.8	107.2	85.2	34.9	6.4	0.3
1996	1,795.5	57.3	0.4	37.6	20.6	63.7	90.1	107.0	83.5	34.0	6.2	0.3
1995	1,786.5	57.6	0.4	39.3	22.0	66.1	90.0	106.5	82.0	32.9	5.9	0.3
1994	1,792.0	58.3	0.5	40.4	22.8	67.4	90.9	107.9	80.7	32.1	5.7	0.2
1993	1,792.5	59.0	0.5	40.7	22.7	67.7	92.1	109.2	79.4	31.1	5.3	0.2
1992 ³	1,810.5	60.2	0.5	41.7	22.7	69.8	93.9	111.5	78.7	30.5	5.1	0.2
1991 ³	1,826.5	61.0	0.5	43.4	23.6	70.5	95.7	112.7	77.9	30.2	4.7	0.2
1990 ⁴	1,850.5	62.8	0.5	42.5	23.2	66.6	97.5	115.3	79.4	30.0	4.7	0.2
1989 ⁵	1,770.0	60.5	0.4	39.9	---	---	94.7	111.7	75.0	27.8	4.3	0.2
Black												
1999	2,212.5	72.2	2.7	83.7	53.7	126.8	146.3	104.9	66.3	31.5	6.7	0.4
1998	2,235.5	73.0	3.0	88.2	58.8	130.9	146.4	104.6	66.6	31.2	6.8	0.3
1997	2,210.5	72.4	3.4	90.8	62.6	134.0	143.0	101.9	65.8	30.3	6.6	0.3
1996	2,204.0	72.5	3.8	94.2	66.6	136.6	140.9	100.8	64.9	29.7	6.2	0.3
1995	2,245.0	74.5	4.3	99.3	72.1	141.9	141.7	102.0	65.9	29.4	6.1	0.3
1994	2,365.0	79.0	4.7	107.7	78.6	152.9	150.3	107.0	67.5	29.5	6.0	0.3
1993	2,454.5	82.7	4.7	112.2	82.5	156.7	157.4	111.5	69.0	29.8	6.0	0.3
1992 ³	2,514.0	85.5	4.8	116.0	83.9	162.9	163.0	114.6	69.1	29.4	5.7	0.2
1991 ³	2,551.0	87.6	4.9	118.9	86.7	163.1	166.1	116.3	69.3	28.9	5.6	0.2
1990 ⁴	2,547.5	89.0	5.0	116.2	84.9	157.5	165.1	118.4	70.2	28.7	5.6	0.3
1989 ⁵	2,424.0	84.8	5.2	111.9	---	---	156.3	113.8	65.7	26.3	5.3	0.3

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

--- Data not available.

0.0 Quantity more than zero but less than 0.05.

¹ Fertility rates computed by relating total births, regardless of age of mother, to women 15-44 years.

² Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.

³ Excludes data for New Hampshire, which did not report Hispanic origin.

⁴ Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.

⁵ Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

⁶ Includes Central and South American and other and unknown Hispanic.

⁷ Includes origin not stated.

⁸ Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 10. Number of births, birth rates, fertility rates, total fertility rates, and birth rates for teenagers 15-19 years by age of mother: United States, each State and territory, 1999

[By place of residence. Birth rates are live births per 1,000 estimated population in each area; fertility rates are live births per 1,000 women aged 15-44 years estimated in each area; total fertility rates are sums of birth rates for 5-year age groups multiplied by 5; birth rates by age are live births per 1,000 women in specified age group estimated in each area]

State	Number of births	Birth rate	Fertility rate	Total fertility rate	Teenage birth rate		
					15-19 years		
					Total	15-17 years	18-19 years
United States ¹	3,959,417	14.5	65.9	2,075.0	49.6	28.7	80.3
Alabama	62,122	14.2	63.3	1,965.5	62.8	38.3	95.9
Alaska	9,950	16.1	74.3	2,445.5	41.8	24.5	67.7
Arizona	81,145	17.0	81.1	2,543.0	69.6	41.8	111.1
Arkansas	36,729	14.4	67.7	2,092.5	68.1	37.6	112.3
California	518,508	15.6	69.5	2,151.0	50.7	30.9	78.5
Colorado	62,167	15.3	69.8	2,255.0	48.4	28.7	78.0
Connecticut	43,310	13.2	61.9	1,945.5	33.3	18.7	57.6
Delaware	10,676	14.2	61.7	1,946.0	54.3	33.7	82.3
District of Columbia	7,522	14.5	60.0	1,901.0	83.5	67.0	100.4
Florida	197,023	13.0	65.1	2,092.5	53.5	30.9	88.6
Georgia	126,717	16.3	68.8	2,158.0	65.1	38.1	104.0
Hawaii	17,038	14.4	68.7	2,216.5	43.8	25.6	67.2
Idaho	19,872	15.9	73.2	2,288.0	43.7	25.1	68.9
Illinois	182,068	15.0	68.0	2,139.5	51.1	29.5	83.6
Indiana	86,031	14.5	65.2	2,057.5	51.6	27.5	86.8
Iowa	37,558	13.1	62.3	1,991.0	35.8	18.3	61.4
Kansas	38,782	14.6	67.5	2,151.0	47.4	24.2	81.5
Kentucky	54,403	13.7	61.5	1,925.0	56.4	30.3	93.1
Louisiana	67,136	15.4	67.7	2,088.5	62.8	37.9	96.9
Maine	13,616	10.9	49.4	1,605.0	29.8	13.8	54.8
Maryland	71,967	13.9	60.4	1,918.0	42.6	25.2	69.9
Massachusetts	80,939	13.1	58.5	1,762.5	28.7	16.2	47.2
Michigan	133,607	13.5	60.7	1,924.5	40.5	22.0	68.2
Minnesota	65,970	13.8	62.6	2,017.0	30.0	16.2	51.2
Mississippi	42,684	15.4	67.9	2,049.0	72.5	45.0	111.0
Missouri	75,432	13.8	63.0	2,014.5	49.6	26.9	83.4
Montana	10,785	12.2	59.8	1,967.0	35.1	18.5	60.2
Nebraska	23,907	14.3	66.6	2,136.0	37.0	20.1	61.4
Nevada	29,362	16.2	78.3	2,519.0	64.1	37.0	106.9
New Hampshire	14,041	11.7	50.8	1,613.5	24.0	10.5	46.0
New Jersey	114,105	14.0	64.5	2,032.5	32.8	18.2	55.5
New Mexico	27,191	15.6	72.2	2,300.5	67.4	42.8	104.6
New York	255,612	14.0	63.6	1,967.5	37.0	21.3	59.8
North Carolina	113,795	14.9	67.6	2,133.0	59.5	34.8	96.3
North Dakota	7,639	12.1	57.3	1,826.0	27.7	12.9	50.0
Ohio	152,584	13.6	61.4	1,944.0	46.0	24.7	77.2
Oklahoma	49,010	14.6	68.9	2,157.5	60.5	33.1	101.7
Oregon	45,204	13.6	64.8	2,068.5	46.5	25.3	78.4
Pennsylvania	145,347	12.1	57.4	1,830.5	36.2	20.5	60.1
Rhode Island	12,366	12.5	57.2	1,771.5	38.2	21.6	63.2
South Carolina	54,948	14.1	62.1	1,931.5	60.8	38.1	91.9
South Dakota	10,524	14.4	67.7	2,186.5	37.6	19.3	63.4
Tennessee	77,803	14.2	63.5	2,008.0	62.7	35.0	102.7
Texas	349,245	17.4	77.6	2,427.5	70.1	43.9	108.1
Utah	46,290	21.7	93.1	2,745.5	40.2	22.6	62.7
Vermont	6,567	11.1	49.2	1,570.0	25.7	12.1	46.3
Virginia	95,469	13.9	59.6	1,852.0	42.7	23.0	70.0
Washington	79,586	13.8	62.1	1,988.0	40.1	21.5	67.6
West Virginia	20,728	11.5	54.7	1,687.0	47.9	24.4	81.0
Wisconsin	68,208	13.0	59.3	1,902.5	35.7	20.1	59.2
Wyoming	6,129	12.8	60.8	1,938.5	40.4	22.0	68.2
Puerto Rico	59,563	15.3	65.3	1,865.5	72.0	50.3	102.7
Virgin Islands	1,671	14.0	64.3	1,957.5	55.2	32.0	89.9
Guam	4,021	26.5	129.2	3,898.5	96.6	54.9	163.3
American Samoa	1,736	27.2	125.1	3,746.0	46.4	21.6	86.3
Northern Marianas	1,381	20.0	58.9	1,665.5	62.0	50.5	76.4

¹ Excludes data for the territories.

Table 11. Live births by race of mother: United States, each State and territory, 1999

[By place of residence]

State	Number				
	All races	White	Black	American Indian ¹	Asian or Pacific Islander
United States ²	3,959,417	3,132,501	605,970	40,170	180,776
Alabama	62,122	41,747	19,753	158	464
Alaska	9,950	6,565	441	2,474	470
Arizona	81,145	70,946	2,729	5,583	1,887
Arkansas	36,729	28,421	7,680	236	392
California	518,508	421,541	35,403	3,243	58,321
Colorado	62,167	56,711	2,899	647	1,910
Connecticut	43,310	36,277	5,383	78	1,572
Delaware	10,676	7,696	2,671	32	277
District of Columbia	7,522	2,200	5,167	6	149
Florida	197,023	146,696	45,078	850	4,399
Georgia	126,717	81,297	42,133	219	3,068
Hawaii	17,038	3,999	460	203	12,376
Idaho	19,872	19,212	78	299	283
Illinois	182,068	140,267	34,239	214	7,348
Indiana	86,031	75,534	9,300	112	1,085
Iowa	37,558	35,363	1,164	208	823
Kansas	38,782	34,611	2,855	367	949
Kentucky	54,403	48,791	4,977	101	534
Louisiana	67,136	38,587	27,267	325	957
Maine	13,616	13,242	106	99	169
Maryland	71,967	44,385	24,260	194	3,128
Massachusetts	80,939	68,328	8,168	151	4,292
Michigan	133,607	105,354	24,044	700	3,509
Minnesota	65,970	57,518	4,016	1,174	3,262
Mississippi	42,684	22,665	19,406	224	389
Missouri	75,432	62,592	11,273	332	1,235
Montana	10,785	9,376	35	1,278	96
Nebraska	23,907	21,685	1,268	467	487
Nevada	29,362	25,036	2,194	431	1,701
New Hampshire	14,041	13,628	139	27	247
New Jersey	114,105	84,444	21,133	187	8,341
New Mexico	27,191	22,864	497	3,460	370
New York	255,612	183,874	53,381	687	17,670
North Carolina	113,795	81,236	28,428	1,679	2,452
North Dakota	7,639	6,743	87	730	79
Ohio	152,584	127,733	22,087	281	2,483
Oklahoma	49,010	38,684	4,629	4,836	861
Oregon	45,204	41,417	904	704	2,179
Pennsylvania	145,347	121,104	20,363	354	3,526
Rhode Island	12,366	10,787	984	152	443
South Carolina	54,948	34,985	19,069	159	735
South Dakota	10,524	8,671	89	1,663	101
Tennessee	77,803	60,004	16,498	142	1,159
Texas	349,245	298,081	40,097	801	10,266
Utah	46,290	44,040	265	619	1,366
Vermont	6,567	6,473	40	9	45
Virginia	95,469	68,509	22,173	150	4,637
Washington	79,586	68,273	3,331	1,875	6,107
West Virginia	20,728	19,799	752	11	166
Wisconsin	68,208	58,770	6,505	971	1,962
Wyoming	6,129	5,740	72	268	49
Puerto Rico	59,563	54,548	5,003	---	---
Virgin Islands	1,671	313	1,288	65	5
Guam	4,021	320	49	2	3,650
American Samoa	1,736	6	-	-	1,730
Northern Marianas	1,381	30	-	-	1,351

- Quantity zero.

--- Data not available.

¹ Includes births to Aleuts and Eskimos.² Excludes data for the territories.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 12. Live births by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, each State and territory, 1999

[By place of residence]

State	All origins	Origin of mother									Not stated
		Hispanic						Non-Hispanic			
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ¹	White	Black	
United States ²	3,959,417	764,339	540,674	57,138	13,088	103,307	50,132	3,147,580	2,346,450	588,981	47,498
Alabama	62,122	1,588	1,129	97	20	114	228	60,499	40,190	19,719	35
Alaska	9,950	594	257	43	9	44	241	9,305	6,066	427	51
Arizona	81,145	32,011	30,605	216	43	557	590	48,050	38,853	2,600	1,084
Arkansas	36,729	1,968	1,702	18	2	214	32	34,725	26,448	7,666	36
California	518,508	249,364	217,450	2,019	686	24,708	4,501	266,240	172,336	34,250	2,904
Colorado	62,167	16,282	11,504	219	29	514	4,016	45,842	40,705	2,793	43
Connecticut	43,310	6,323	505	4,141	85	1,366	226	34,770	28,226	4,993	2,217
Delaware	10,676	857	390	306	4	151	6	9,813	6,863	2,643	6
District of Columbia	7,522	790	57	6	2	676	49	6,680	1,411	5,116	52
Florida	197,023	41,484	9,386	7,851	9,120	13,883	1,244	155,375	106,383	44,083	164
Georgia	126,717	10,557	8,331	500	129	1,403	194	114,645	70,016	41,532	1,515
Hawaii	17,038	2,210	439	672	14	68	1,017	14,803	3,340	425	25
Idaho	19,872	2,356	2,059	21	7	57	212	17,443	16,810	74	73
Illinois	182,068	36,959	31,145	2,796	203	1,090	1,725	145,011	103,430	34,023	98
Indiana	86,031	4,365	3,496	288	21	301	259	81,316	70,896	9,262	350
Iowa	37,558	1,844	1,502	45	7	193	97	35,350	33,261	1,116	364
Kansas	38,782	4,272	3,558	75	24	195	420	34,142	30,030	2,823	368
Kentucky	54,403	951	646	97	37	136	35	53,403	47,837	4,948	49
Louisiana	67,136	1,538	616	107	68	170	577	65,191	36,936	27,036	407
Maine	13,616	135	22	19	2	24	68	12,787	12,449	86	694
Maryland	71,967	4,088	725	319	49	2,238	757	67,561	40,400	24,048	318
Massachusetts	80,939	8,797	335	4,385	80	3,640	357	71,692	60,744	6,548	450
Michigan	133,607	6,230	4,854	437	75	337	527	119,462	91,860	23,692	7,915
Minnesota	65,970	3,316	2,593	90	19	401	213	59,199	50,952	3,921	3,455
Mississippi	42,684	451	235	27	7	27	155	42,175	22,171	19,398	58
Missouri	75,432	2,260	1,699	92	23	268	178	73,113	60,350	11,231	59
Montana	10,785	318	167	11	5	11	124	10,320	8,954	32	147
Nebraska	23,907	2,293	1,809	25	8	245	206	21,044	18,851	1,257	570
Nevada	29,362	9,268	7,593	183	149	845	498	19,690	15,575	2,117	404
New Hampshire	14,041	357	79	105	7	104	62	13,140	12,753	121	544
New Jersey	114,105	21,313	3,148	7,022	869	9,948	326	92,339	64,762	19,151	453
New Mexico	27,191	13,827	4,558	56	30	118	9,065	13,356	9,168	465	8
New York	255,612	53,004	6,858	14,604	410	21,617	9,515	190,103	124,484	47,512	12,505
North Carolina	113,795	9,871	7,413	594	114	1,657	93	103,880	71,496	28,286	44
North Dakota	7,639	121	76	5	2	7	31	7,260	6,463	84	258
Ohio	152,584	3,422	1,703	1,122	45	363	189	148,495	124,221	21,572	667
Oklahoma	49,010	3,919	3,039	114	11	241	514	44,123	34,159	4,466	968
Oregon	45,204	6,904	6,426	73	31	269	105	37,920	34,247	878	380
Pennsylvania	145,347	7,161	1,031	4,793	97	506	734	137,469	113,655	20,000	717
Rhode Island	12,366	1,893	113	596	12	1,045	127	8,763	7,362	856	1,710
South Carolina	54,948	1,720	1,171	167	27	259	96	53,160	33,315	19,030	68
South Dakota	10,524	179	119	7	3	36	14	10,337	8,505	88	8
Tennessee	77,803	2,432	1,799	140	36	347	110	75,334	57,589	16,471	37
Texas	349,245	157,736	139,983	1,046	297	7,793	8,617	190,264	139,861	39,515	1,245
Utah	46,290	5,425	4,370	92	8	498	457	40,754	38,551	254	111
Vermont	6,567	40	8	12	2	4	14	6,384	6,297	35	143
Virginia	95,469	6,520	1,457	575	80	4,014	394	88,764	62,054	22,034	185
Washington	79,586	10,359	8,930	288	49	410	682	65,747	55,433	3,043	3,480
West Virginia	20,728	96	36	14	4	17	25	20,597	19,679	746	35
Wisconsin	68,208	4,041	3,115	603	26	171	126	64,149	54,828	6,446	18
Wyoming	6,129	530	433	5	1	7	84	5,596	5,225	69	3
Puerto Rico	59,563	---	---	---	---	---	---	---	---	---	59,563
Virgin Islands	1,671	300	10	226	2	-	62	1,297	98	1,142	74
Guam	4,021	46	26	11	-	1	8	3,928	286	48	47
American Samoa	1,736	---	---	---	---	---	---	---	---	---	1,736
Northern Marianas	1,381	---	---	---	---	---	---	---	---	---	1,381

- Quantity zero.

--- Data not available.

¹ Includes races other than white and black.² Excludes data for the territories.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 13. Total number of births, rates (birth, fertility, and total fertility), and percent of births with selected demographic characteristics, by detailed race of mother and place of birth of mother: United States, 1999

Characteristic	All races	White	Black	American Indian ¹	Asian or Pacific Islander					
					Total	Chinese	Japanese	Hawaiian	Filipino	Other
Number										
Births	3,959,417	3,132,501	605,970	40,170	180,776	28,853	8,722	6,093	30,677	106,431
Rate										
Birth rate ²	14.5	13.9	17.4	16.8	16.7	---	---	---	---	---
Fertility rate ³	65.9	65.1	70.1	69.7	65.6	---	---	---	---	---
Total fertility rate ⁴	2,075.0	2,065.0	2,146.5	2,056.5	1,927.0	---	---	---	---	---
Sex ratio ⁵	1,049	1,052	1,031	1,029	1,064	1,075	1,063	1,047	1,069	1,062
Percent										
All births										
Births to mothers under 20 years	12.3	10.9	20.7	20.2	5.1	0.9	2.1	18.2	5.9	5.5
4th- and higher-order births	10.5	9.7	14.9	19.1	7.2	2.3	3.9	14.3	7.2	8.4
Births to unmarried mothers	33.0	26.8	68.9	58.9	15.4	6.9	9.9	50.4	21.1	14.5
Mothers completing 12 years or more of school	78.3	78.7	74.0	67.8	87.6	88.0	98.0	83.2	93.7	85.2
Mothers born in the 50 States and DC	79.8	81.5	88.6	96.0	16.7	9.7	41.3	97.8	20.1	10.9
Mothers born in the 50 States and DC										
Births to mothers under 20 years	13.3	11.2	22.4	20.7	16.0	4.2	4.5	18.3	15.8	21.5
4th- and higher-order births	10.0	8.8	15.0	19.4	7.6	3.8	4.7	14.2	7.2	6.2
Births to unmarried mothers	34.0	25.6	72.1	60.1	33.8	11.3	17.6	50.7	39.6	32.5
Mothers completing 12 years or more of school	82.6	84.8	73.0	67.8	87.1	96.1	96.6	83.3	88.9	83.0
Mothers born outside the 50 States and DC										
Births to mothers under 20 years	8.1	9.6	6.6	7.1	2.9	0.5	0.5	*	3.4	3.6
4th- and higher-order births	12.6	13.9	13.2	11.3	7.1	2.2	3.4	20.8	7.1	8.6
Births to unmarried mothers	29.2	32.1	43.3	29.1	11.7	6.4	4.5	37.4	16.4	12.3
Mothers completing 12 years or more of school	60.9	51.5	81.8	67.9	87.7	87.1	99.1	76.2	94.9	85.4

--- Data not available.

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

¹ Includes births to Aleuts and Eskimos.² Birth rate per 1,000 population.³ Fertility rate per 1,000 women aged 15-44 years.⁴ Rates are sums of birth rates for 5-year age groups multiplied by 5.⁵ Male live births per 1,000 female live births.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 14. Total number of births, rates (birth, fertility, and total fertility), and percent of births with selected demographic characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1999

Characteristic	All origins ¹	Hispanic						Non-Hispanic		
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
Number										
Births	3,959,417	764,339	540,674	57,138	13,088	103,307	50,132	3,147,580	2,346,450	588,981
Rate										
Birth rate ³	14.5	24.4	26.4	19.4	9.7	⁷ 23.4		13.2	12.2	17.9
Fertility rate ⁴	65.9	102.0	111.6	77.7	51.2	⁷ 92.6		60.7	57.8	72.2
Total fertility rate ⁵	2,075.0	2,985.0	3,181.5	2,378.0	1,563.0	⁷ 2,836.5		1,929.5	1,850.0	2,212.5
Sex ratio ⁶	1,049	1,041	1,040	1,031	1,038	1,054	1,037	1,051	1,055	1,032
Percent										
All births										
Births to mothers under 20 years	12.3	16.7	17.4	21.1	7.7	10.0	19.5	11.2	9.2	20.7
4th- and higher-order births	10.5	13.5	14.6	11.9	5.3	11.2	10.6	9.8	8.5	14.9
Births to unmarried mothers	33.0	42.2	40.1	59.6	26.4	43.7	45.8	30.9	22.1	69.1
Mothers completing 12 years or more of school	78.3	50.9	44.8	65.6	87.7	62.1	67.5	84.8	87.4	74.1
Mothers born in the 50 States and DC	79.8	39.2	38.7	64.6	41.4	10.4	74.6	89.5	94.8	89.9
Mothers born in the 50 States and DC										
Births to mothers under 20 years	13.3	25.0	26.2	23.1	13.4	21.1	22.8	12.1	9.5	22.4
4th- and higher-order births	10.0	11.2	11.8	11.0	5.3	5.0	10.5	9.8	8.5	15.1
Births to unmarried mothers	34.0	48.0	46.3	62.1	27.2	45.3	47.4	32.5	22.7	72.2
Mothers completing 12 years or more of school	82.6	65.5	63.5	65.8	87.0	79.3	69.2	84.4	87.3	73.1
Mothers born outside the 50 States and DC										
Births to mothers under 20 years	8.1	11.3	11.9	17.5	3.7	8.7	9.4	3.7	3.5	6.1
4th- and higher-order births	12.6	15.0	16.3	13.5	5.2	11.9	10.8	9.1	9.5	13.6
Births to unmarried mothers	29.2	38.3	36.1	54.9	25.9	43.6	39.9	16.6	10.6	41.0
Mothers completing 12 years or more of school	60.9	41.4	32.9	65.3	88.2	60.1	62.7	88.0	90.3	84.0

¹ Includes origin not stated.² Includes races other than white and black.³ Birth rate per 1,000 population.⁴ Fertility rate per 1,000 women aged 15-44 years.⁵ Rates are sums of birth rates for 5-year age groups multiplied by 5.⁶ Male live births per 1,000 female live births.⁷ Includes Central and South American and other and unknown Hispanic.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 15. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 1999

[Rates on an annual basis per 1,000 population for specified month. Birth rates are live births per 1,000 total population. Fertility rates are live births per 1,000 women aged 15-44 years]

Month	Number			Observed		Seasonally adjusted ¹	
	All races ²	White	Black	Birth rate	Fertility rate	Birth rate	Fertility rate
Total	3,959,417	3,132,501	605,970	14.5	65.9	...	...
January	319,182	249,763	51,703	13.8	62.5	14.5	65.3
February	297,568	234,996	46,119	14.3	64.6	14.5	65.6
March	332,939	264,758	49,704	14.4	65.2	14.7	66.9
April	316,889	253,265	45,896	14.2	64.2	14.4	65.2
May	328,526	262,086	48,059	14.2	64.4	14.3	65.0
June	332,201	264,732	49,122	14.8	67.3	14.6	66.3
July	349,812	277,492	53,190	15.1	68.5	14.5	65.5
August	351,371	278,200	54,025	15.2	68.8	14.6	66.3
September	349,409	276,895	53,181	15.6	70.7	14.7	66.9
October	332,980	263,164	51,078	14.3	65.2	14.5	65.7
November	315,289	247,481	49,655	14.0	63.8	14.5	66.1
December	333,251	259,669	54,238	14.3	65.3	14.5	65.8

... Category not applicable.

¹ The method of seasonal adjustment, developed by the U.S. Bureau of the Census, is described in *The X11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15 (1967 revision).

² Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 16. Live births by day of week and index of occurrence by method of delivery, day of week, and race of mother: United States, 1999

Day of week and race of mother	Average number of births	Index of occurrence ¹				
		Total ²	Method of delivery			Repeat
			Vaginal	Total	Cesarean	
				Primary		
All races ³	10,848	100.0	100.0	100.0	100.0	100.0
Sunday	7,731	71.3	76.6	52.7	62.3	36.4
Monday	11,018	101.6	100.1	106.5	98.0	120.8
Tuesday	12,424	114.5	112.1	122.9	119.5	128.7
Wednesday	12,183	112.3	110.4	118.9	116.8	122.4
Thursday	11,893	109.6	108.0	115.2	113.0	118.8
Friday	12,012	110.7	107.9	120.6	115.6	129.0
Saturday	8,654	79.8	84.6	63.0	74.6	43.5
White	8,582	100.0	100.0	100.0	100.0	100.0
Sunday	5,963	69.5	74.9	50.5	60.4	34.0
Monday	8,763	102.1	100.6	107.2	98.2	122.1
Tuesday	9,910	115.5	113.1	123.8	120.6	129.1
Wednesday	9,711	113.2	111.2	119.8	117.7	123.3
Thursday	9,481	110.5	108.9	116.0	113.4	120.3
Friday	9,540	111.2	108.2	121.6	116.7	129.9
Saturday	6,691	78.0	82.9	60.8	72.7	41.0
Black	1,660	100.0	100.0	100.0	100.0	100.0
Sunday	1,288	77.6	82.7	60.9	69.9	45.5
Monday	1,643	99.0	97.4	103.9	96.6	116.3
Tuesday	1,854	111.7	109.1	120.0	115.7	127.3
Wednesday	1,815	109.3	107.2	116.1	113.8	120.1
Thursday	1,776	107.0	105.4	112.2	111.7	112.9
Friday	1,809	109.0	107.1	115.5	110.9	123.3
Saturday	1,434	86.4	91.0	71.2	81.1	54.3

¹ Index is the ratio of the average number of births by a specified method of delivery on a given day of the week to the average daily number of births by a specified method of delivery for the year, multiplied by 100.

² Includes method of delivery not stated.

³ Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 17. Number, birth rate, and percent of births to unmarried women by age, race, and Hispanic origin of mother: United States, 1999

Measure and age of mother	All races ¹	White		Black		Hispanic ²
		Total	Non-Hispanic	Total	Non-Hispanic	
Number						
All ages	1,308,560	839,552	518,291	417,476	406,802	322,311
Under 15 years	8,737	4,457	1,954	3,958	3,871	2,542
15-19 years	374,485	245,467	154,620	115,739	113,114	90,935
15 years	21,407	12,821	6,409	7,812	7,648	6,470
16 years	46,078	29,623	16,465	14,747	14,390	13,237
17 years	75,906	50,509	30,811	22,592	22,094	19,745
18 years	105,288	69,957	45,906	31,589	30,862	24,005
19 years	125,806	82,557	55,029	38,999	38,120	27,478
20-24 years	476,497	303,489	191,268	155,600	151,977	112,439
25-29 years	246,873	156,933	91,864	78,984	76,821	65,387
30-34 years	124,894	79,427	46,787	39,643	38,279	32,975
35-39 years	62,637	40,308	25,592	19,362	18,711	14,768
40 years and over	14,437	9,471	6,206	4,190	4,029	3,265
Rate per 1,000 unmarried women in specified group						
15-44 years ³	44.4	38.1	27.9	71.5	---	93.4
15-19 years	40.4	33.7	25.5	78.4	---	73.8
15-17 years	25.5	21.0	14.6	51.5	---	52.4
18-19 years	63.3	53.3	42.3	117.9	---	107.6
20-24 years	72.9	61.4	46.0	130.3	---	143.3
25-29 years	60.2	53.4	37.0	89.6	---	143.6
30-34 years	39.3	35.8	25.0	50.3	---	93.3
35-39 years	19.3	17.5	13.0	24.7	---	44.1
40-44 years ⁴	4.6	4.1	3.1	5.9	---	11.3
Percent of births to unmarried women						
All ages	33.0	26.8	22.1	68.9	69.1	42.2
Under 15 years	96.5	94.0	95.4	99.5	99.5	93.3
15-19 years	78.7	72.6	72.6	95.5	95.6	72.9
15 years	93.5	90.3	92.0	99.3	99.4	88.8
16 years	89.4	85.5	87.2	98.7	98.7	83.6
17 years	85.1	80.5	81.8	97.8	97.8	78.6
18 years	78.6	72.7	73.7	95.9	96.0	71.0
19 years	70.5	63.5	63.2	92.2	92.3	64.4
20-24 years	48.5	40.6	37.2	80.5	80.7	48.6
25-29 years	22.9	18.0	13.8	56.9	57.0	32.1
30-34 years	14.0	10.7	7.8	43.3	43.3	25.1
35-39 years	14.4	11.3	8.7	41.0	40.9	25.4
40 years and over	16.5	13.4	10.7	42.0	41.9	27.3

--- Data not available.

¹ Includes races other than white and black and origin not stated.² Includes all persons of Hispanic origin of any race.³ Birth rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.⁴ Birth rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.

NOTES: For 48 States and the District of Columbia, marital status is reported on the birth certificate; for Michigan and New York, mother's marital status is inferred; see Technical notes. Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available.

Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-99, and by age, race, and Hispanic origin of mother: United States, 1980-99

[Rates are live births to unmarried women per 1,000 unmarried women. Population estimated as of July 1]

Year and race and Hispanic origin	Age of Mother								
	15-44 years ¹	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years ²
		Total	15-17 years	18-19 years					
All races ³									
1999 ⁴	44.4	40.4	25.5	63.3	72.9	60.2	39.3	19.3	4.6
1998 ⁴	44.3	41.5	27.0	64.5	72.3	58.4	39.1	19.0	4.6
1997 ⁴	44.0	42.2	28.2	65.2	71.0	56.2	39.0	19.0	4.6
1996 ⁴	44.8	42.9	29.0	65.9	70.7	56.8	41.1	20.1	4.8
1995 ⁴	45.1	44.4	30.5	67.6	70.3	56.1	39.6	19.5	4.7
1994 ⁴	46.9	46.4	32.0	70.1	72.2	59.0	40.1	19.8	4.7
1993 ⁴	45.3	44.5	30.6	66.9	69.2	57.1	38.5	19.0	4.4
1992 ⁴	45.2	44.6	30.4	67.3	68.5	56.5	37.9	18.8	4.1
1991 ⁴	45.2	44.8	30.9	65.7	68.0	56.5	38.1	18.0	3.8
1990 ⁴	43.8	42.5	29.6	60.7	65.1	56.0	37.6	17.3	3.6
1989 ⁴	41.6	40.1	28.7	56.0	61.2	52.8	34.9	16.0	3.4
1988 ⁴	38.5	36.4	26.4	51.5	56.0	48.5	32.0	15.0	3.2
1987 ⁴	36.0	33.8	24.5	48.9	52.6	44.5	29.6	13.5	2.9
1986 ⁴	34.2	32.3	22.8	48.0	49.3	42.2	27.2	12.2	2.7
1985 ⁴	32.8	31.4	22.4	45.9	46.5	39.9	25.2	11.6	2.5
1984 ^{4,5}	31.0	30.0	21.9	42.5	43.0	37.1	23.3	10.9	2.5
1983 ^{4,5}	30.3	29.5	22.0	40.7	41.8	35.5	22.4	10.2	2.6
1982 ^{4,5}	30.0	28.7	21.5	39.6	41.5	35.1	21.9	10.0	2.7
1981 ^{4,5}	29.5	27.9	20.9	39.0	41.1	34.5	20.8	9.8	2.6
1980 ^{4,5}	29.4	27.6	20.6	39.0	40.9	34.0	21.1	9.7	2.6
1980 ^{5,6}	28.4	27.5	20.7	38.7	39.7	31.4	18.5	8.4	2.3
1975 ^{5,6}	24.5	23.9	19.3	32.5	31.2	27.5	17.9	9.1	2.6
1970 ^{6,7}	26.4	22.4	17.1	32.9	38.4	37.0	27.1	13.6	3.5
White, total									
1999 ⁴	38.1	33.7	21.0	53.3	61.4	53.4	35.8	17.5	4.1
1998 ⁴	37.5	34.0	21.8	53.5	60.5	50.9	34.9	17.0	4.0
1997 ⁴	37.0	34.2	22.4	53.6	59.2	49.3	34.4	16.7	3.9
1996 ⁴	37.6	34.5	22.7	54.1	59.0	49.9	36.1	17.8	4.3
1995 ⁴	37.5	35.5	23.6	55.4	58.0	48.7	34.2	16.9	4.2
1994 ⁴	38.3	36.2	24.1	56.4	58.1	49.7	34.2	17.3	4.3
1993 ⁴	35.9	33.6	22.1	52.4	54.2	46.7	32.2	16.4	3.9
1992 ⁴	35.2	33.0	21.6	51.5	52.7	45.4	31.5	16.2	3.6
1991 ⁴	34.6	32.8	21.8	49.6	51.5	44.6	31.1	15.2	3.2
1990 ⁴	32.9	30.6	20.4	44.9	48.2	43.0	29.9	14.5	3.2
1989 ⁴	30.2	28.0	19.3	40.2	43.8	39.1	26.8	13.1	2.9
1988 ⁴	27.4	25.3	17.6	36.8	39.2	35.4	24.2	12.1	2.7
1987 ⁴	25.3	23.2	16.2	34.5	36.6	32.0	22.3	10.7	2.4
1986 ⁴	23.9	21.8	14.9	33.5	34.2	30.5	20.1	9.7	2.2
1985 ⁴	22.5	20.8	14.5	31.2	31.7	28.5	18.4	9.0	2.0
1984 ^{4,5}	20.6	19.3	13.7	27.9	28.5	25.5	16.8	8.4	2.0
1983 ^{4,5}	19.8	18.7	13.6	26.4	27.1	23.8	15.9	7.8	2.0
1982 ^{4,5}	19.3	18.0	13.1	25.3	26.5	23.1	15.3	7.4	2.1
1981 ^{4,5}	18.6	17.2	12.6	24.6	25.8	22.3	14.2	7.2	1.9
1980 ^{4,5}	18.1	16.5	12.0	24.1	25.1	21.5	14.1	7.1	1.8
White, non-Hispanic									
1999 ⁴	27.9	25.5	14.6	42.3	46.0	37.0	25.0	13.0	3.1
1998 ⁴	28.0	26.1	15.6	42.8	46.0	36.1	25.2	13.1	3.0
1997 ⁴	27.6	26.4	16.2	43.1	44.8	35.2	25.1	12.7	2.9
1996 ⁴	28.3	27.0	16.9	43.8	44.5	35.7	26.6	13.9	3.3
1995 ⁴	28.2	27.7	17.6	44.5	43.8	34.9	25.3	13.0	3.2
1994 ⁴	28.5	28.1	18.0	45.0	43.8	35.0	24.8	12.9	3.1
1993 ⁴	---	---	---	---	---	---	---	---	---
1992 ⁴	---	---	---	---	---	---	---	---	---
1991 ⁴	---	---	---	---	---	---	---	---	---
1990 ^{4,8}	24.4	25.0	16.2	37.0	36.4	30.3	20.5	6.1	---

See footnotes at end of table.

Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-99, and by age, race, and Hispanic origin of mother: United States, 1980-99 --Con.

[Rates are live births to unmarried women per 1,000 unmarried women. Population estimated as of July 1]

Year and race and Hispanic origin	Age of Mother								
	15-44 years ¹	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years ²
		Total	15-17 years	18-19 years					
Black, total									
1999 ⁴	71.5	78.4	51.5	117.9	130.3	89.6	50.3	24.7	5.9
1998 ⁴	73.3	83.4	56.5	123.5	131.0	90.3	51.7	24.7	6.1
1997 ⁴	73.4	86.4	60.6	127.2	127.8	85.2	52.3	24.7	6.5
1996 ⁴	74.4	89.2	64.0	129.2	125.8	84.5	54.5	25.5	6.1
1995 ⁴	75.9	92.8	68.6	131.2	127.7	84.8	54.3	25.6	6.0
1994 ⁴	82.1	100.9	75.1	141.6	138.1	93.6	57.2	26.3	5.9
1993 ⁴	84.0	102.4	76.8	141.6	142.2	94.5	57.3	25.9	5.8
1992 ⁴	86.5	105.9	78.0	147.8	144.3	98.2	57.7	25.8	5.4
1991 ⁴	89.5	108.5	80.4	148.7	147.5	100.9	60.1	25.6	5.4
1990 ⁴	90.5	106.0	78.8	143.7	144.8	105.3	61.5	25.5	5.1
1989 ⁴	90.7	104.5	78.9	140.9	142.4	102.9	60.5	24.9	5.0
1988 ⁴	86.5	96.1	73.5	130.5	133.6	97.2	57.4	24.1	5.0
1987 ⁴	82.6	90.9	69.9	123.0	126.1	91.6	53.1	22.4	4.7
1986 ⁴	79.0	88.5	67.0	121.1	118.0	84.6	50.0	20.6	4.4
1985 ⁴	77.0	87.6	66.8	117.9	113.1	79.3	47.5	20.4	4.3
1984 ^{4,5}	75.2	86.1	66.5	113.6	107.9	77.8	43.8	19.4	4.3
1983 ^{4,5}	76.2	85.5	66.8	111.9	107.2	79.7	43.8	19.4	4.8
1982 ^{4,5}	77.9	85.1	66.3	112.7	109.3	82.7	44.1	19.5	5.2
1981 ^{4,5}	79.4	85.0	65.9	114.2	110.7	83.1	45.5	19.6	5.6
1980 ^{4,5}	81.1	87.9	68.8	118.2	112.3	81.4	46.7	19.0	5.5
Hispanic⁹									
1999 ⁴	93.4	73.8	52.4	107.6	143.3	143.6	93.3	44.1	11.3
1998 ⁴	90.1	73.9	53.0	107.8	135.0	136.0	85.4	40.1	12.0
1997 ⁴	91.4	75.2	55.0	109.5	139.1	135.0	86.1	42.0	12.2
1996 ⁴	93.2	74.5	53.4	110.4	146.5	139.1	90.8	42.3	12.3
1995 ⁴	95.0	78.7	56.3	117.9	148.9	133.8	89.2	43.4	12.2
1994 ⁴	101.2	82.6	59.0	123.6	154.8	141.6	95.5	48.4	14.0
1993 ⁴	95.2	74.6	51.9	114.6	140.5	137.7	90.9	47.8	14.1
1992 ⁴	95.3	72.9	51.0	110.5	142.2	138.3	91.8	48.1	14.5
1991 ⁴	93.7	72.4	50.5	109.6	135.4	137.5	89.1	47.7	14.2
1990 ⁴	89.6	65.9	45.9	98.9	129.8	131.7	88.1	50.8	13.7

--- Data not available.

¹ Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.² Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.³ Includes races other than white and black.⁴ Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see Technical notes.⁵ Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.⁶ Births to unmarried women are estimated for the United States from data for registration areas in which marital status of mother was reported; see Technical notes.⁷ Based on a 50-percent sample of births.⁸ Rates for 1990 based on data for 48 States and the District of Columbia which reported Hispanic origin on the birth certificate. Rate shown for ages 35-39 years is based on births to unmarried women aged 35-44 years.⁹ Includes all persons of Hispanic origin of any race.

NOTE: Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available.

Table 19. Number and percent of births to unmarried women by race and Hispanic origin of mother: United States, each State and territory, 1999

[By place of residence]

State	Births to unmarried women						Percent unmarried					
	All races ¹	White		Black		Hispanic ²	All races ¹	White		Black		Hispanic ²
		Total	Non-Hispanic	Total	Non-Hispanic			Total	Non-Hispanic	Total	Non-Hispanic	
United States ³	1,308,560	839,552	518,291	417,476	406,802	322,311	33.0	26.8	22.1	68.9	69.1	42.2
Alabama	20,693	7,194	6,781	13,390	13,378	420	33.3	17.2	16.9	67.8	67.8	26.4
Alaska	3,301	1,519	1,375	205	199	189	33.2	23.1	22.7	46.5	46.6	31.8
Arizona	31,463	25,537	9,564	1,737	1,660	16,081	38.8	36.0	24.6	63.6	63.8	50.2
Arkansas	12,932	7,028	6,352	5,732	5,723	688	35.2	24.7	24.0	74.6	74.7	35.0
California	170,372	138,021	35,752	22,163	21,463	103,006	32.9	32.7	20.7	62.6	62.7	41.3
Colorado	15,818	13,669	7,483	1,580	1,518	6,325	25.4	24.1	18.4	54.5	54.4	38.8
Connecticut	12,562	8,766	4,636	3,624	3,366	3,958	29.0	24.2	16.4	67.3	67.4	62.6
Delaware	4,147	2,159	1,745	1,946	1,919	440	38.8	28.1	25.4	72.9	72.6	51.3
District of Columbia	4,642	538	115	4,078	4,050	427	61.7	24.5	8.2	78.9	79.2	54.1
Florida	73,824	42,556	27,767	30,270	29,708	15,460	37.5	29.0	26.1	67.2	67.4	37.3
Georgia	46,328	17,808	14,028	28,087	27,824	3,734	36.6	21.9	20.0	66.7	67.0	35.4
Hawaii	5,593	710	559	115	99	1,004	32.8	17.8	16.7	25.0	23.3	45.4
Idaho	4,302	4,058	3,308	32	30	738	21.6	21.1	19.7	41.0	40.5	31.3
Illinois	62,088	35,033	20,050	26,433	26,292	15,083	34.1	25.0	19.4	77.2	77.3	40.8
Indiana	29,640	22,294	20,230	7,167	7,146	1,977	34.5	29.5	28.5	77.1	77.2	45.3
Iowa	10,330	9,196	8,388	830	800	741	27.5	26.0	25.2	71.3	71.7	40.2
Kansas	11,098	8,804	7,110	1,975	1,958	1,656	28.6	25.4	23.7	69.2	69.4	38.8
Kentucky	16,540	12,788	12,484	3,633	3,619	302	30.4	26.2	26.1	73.0	73.1	31.8
Louisiana	30,109	9,684	9,196	20,102	19,928	474	44.8	25.1	24.9	73.7	73.7	30.8
Maine	4,260	4,114	3,798	52	39	49	31.3	31.1	30.5	49.1	45.3	36.3
Maryland	25,083	9,667	8,038	15,055	14,945	1,657	34.9	21.8	19.9	62.1	62.1	40.5
Massachusetts	21,476	15,842	11,340	4,832	3,853	5,398	26.5	23.2	18.7	59.2	58.8	61.4
Michigan	44,184	26,000	21,070	17,412	17,228	2,556	33.1	24.7	22.9	72.4	72.7	41.0
Minnesota	17,065	12,862	10,980	2,484	2,431	1,562	25.9	22.4	21.5	61.9	62.0	47.1
Mississippi	19,606	4,750	4,598	14,629	14,626	150	45.9	21.0	20.7	75.4	75.4	33.3
Missouri	25,737	16,729	15,853	8,629	8,607	894	34.1	26.7	26.3	76.5	76.6	39.6
Montana	3,232	2,298	2,144	14	13	122	30.0	24.5	23.9	*	*	38.4
Nebraska	6,181	4,920	3,840	883	878	943	25.9	22.7	20.4	69.6	69.8	41.1
Nevada	10,483	8,335	4,441	1,495	1,446	3,838	35.7	33.3	28.5	68.1	68.3	41.4
New Hampshire	3,399	3,316	2,995	52	45	146	24.2	24.3	23.5	37.4	37.2	40.9
New Jersey	32,556	18,280	8,398	13,732	12,672	10,850	28.5	21.6	13.0	65.0	66.2	50.9
New Mexico	12,272	9,446	2,446	314	293	7,084	45.1	41.3	26.7	63.2	63.0	51.2
New York	93,613	54,221	23,792	36,227	32,113	31,819	36.6	29.5	19.1	67.9	67.6	60.0
North Carolina	37,814	17,708	13,667	18,885	18,818	4,112	33.2	21.8	19.1	66.4	66.5	41.7
North Dakota	2,099	1,547	1,458	23	21	41	27.5	22.9	22.6	26.4	25.0	33.9
Ohio	52,038	34,846	33,246	16,805	16,380	1,627	34.1	27.3	26.8	76.1	75.9	47.5
Oklahoma	16,252	10,552	8,983	3,277	3,172	1,445	33.2	27.3	26.3	70.8	71.0	36.9
Oregon	13,750	12,399	9,590	569	550	2,732	30.4	29.9	28.0	62.9	62.6	39.6
Pennsylvania	47,865	31,502	26,968	15,768	15,507	4,393	32.9	26.0	23.7	77.4	77.5	61.3
Rhode Island	4,242	3,327	1,886	647	564	1,067	34.3	30.8	25.6	65.8	65.9	56.4
South Carolina	21,441	7,794	7,179	13,472	13,454	639	39.0	22.3	21.5	70.6	70.7	37.2
South Dakota	3,348	2,046	1,991	32	32	62	31.8	23.6	23.4	36.0	36.4	34.6
Tennessee	26,981	14,597	13,691	12,114	12,100	923	34.7	24.3	23.8	73.4	73.5	38.0
Texas	109,244	83,002	28,096	25,007	24,650	54,876	31.3	27.8	20.1	62.4	62.4	34.8
Utah	7,722	7,032	4,987	136	131	2,045	16.7	16.0	12.9	51.3	51.6	37.7
Vermont	1,901	1,866	1,801	22	20	14	28.9	28.8	28.6	55.0	57.1	*
Virginia	28,334	13,958	11,550	13,903	13,832	2,445	29.7	20.4	18.6	62.7	62.8	37.5
Washington	22,335	18,072	13,316	1,853	1,701	4,100	28.1	26.5	24.0	55.6	55.9	39.6
West Virginia	6,581	5,975	5,930	585	582	38	31.7	30.2	30.1	77.8	78.0	39.6
Wisconsin	19,906	13,629	11,941	5,430	5,382	1,768	29.2	23.2	21.8	83.5	83.5	43.8
Wyoming	1,778	1,558	1,355	39	37	213	29.0	27.1	25.9	54.2	53.6	40.2
Puerto Rico	28,658	25,547	---	3,108	---	---	48.1	46.8	---	62.1	---	---
Virgin Islands	1,121	161	27	948	839	200	67.1	51.4	27.6	73.6	73.5	66.7
Guam	2,246	68	57	18	18	18	55.9	21.3	19.9	*	*	*
American Samoa	616	2	---	-	---	---	35.5	*	---	*	---	---
Northern Marianas	655	6	---	-	---	---	47.4	*	---	*	---	---

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

- Quantity zero.

--- Data not available.

¹ Includes races other than white and black and origin not stated.² Includes all persons of Hispanic origin of any race.³ Excludes data for the territories.

Table 20. Birth rates by age and race of father: United States, 1980-99

[Rates are live births per 1,000 men in specified group. Population enumerated as of April 1 for 1980 and 1990 and estimated as of July 1 for all other years. Figures for age of father not stated are distributed]

Year and race of father	15-54 years ¹	Age of father								
		15-19 years ²	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years	55 years and over
All races ³										
1999	50.8	21.0	83.8	114.8	101.6	54.9	21.0	7.2	2.5	0.3
1998	51.0	21.6	84.8	112.6	99.2	53.9	20.9	7.2	2.5	0.3
1997	50.4	22.2	83.4	108.5	95.7	52.1	20.6	7.1	2.5	0.3
1996	51.1	23.0	84.4	107.7	94.3	51.5	20.4	6.9	2.5	0.3
1995	52.0	24.3	86.0	107.2	93.3	51.0	20.3	7.1	2.6	0.3
1994	53.2	25.0	87.3	108.8	93.3	50.9	20.2	7.2	2.6	0.3
1993	54.4	24.8	87.1	110.8	93.5	51.1	20.2	7.3	2.7	0.4
1992	55.8	24.6	87.7	113.1	94.2	51.3	20.4	7.3	2.7	0.4
1991	57.1	24.8	88.0	114.7	95.1	51.8	20.2	7.5	2.7	0.4
1990	58.4	23.5	88.0	116.4	97.8	53.0	21.0	7.5	2.8	0.4
1989	57.2	21.9	85.4	114.3	94.8	51.3	20.4	7.4	2.7	0.6
1988	55.8	19.6	82.4	111.6	93.2	49.9	19.9	7.1	2.7	0.4
1987	55.0	18.3	80.5	109.9	91.2	48.6	19.0	6.9	2.6	0.4
1986	54.8	17.9	80.3	109.6	90.3	46.8	18.3	6.7	2.6	0.4
1985	55.6	18.0	81.2	112.3	91.1	47.3	18.1	6.6	2.5	0.4
1984 ⁴	55.0	17.8	80.7	111.4	89.9	46.0	17.8	6.3	2.4	0.4
1983 ⁴	55.1	18.2	82.6	113.0	89.1	45.2	17.4	6.4	2.3	0.4
1982 ⁴	56.4	18.6	86.5	117.3	90.3	44.5	17.5	6.4	2.3	0.4
1981 ⁴	56.3	18.4	88.4	119.1	88.7	43.3	17.0	6.2	2.3	0.4
1980 ⁴	57.0	18.8	92.0	123.1	91.0	42.8	17.1	6.1	2.2	0.3
White										
1999	48.2	17.5	76.8	113.4	101.7	53.4	19.6	6.4	2.1	0.3
1998	48.3	18.0	77.5	110.9	99.1	52.5	19.4	6.4	2.2	0.3
1997	47.7	18.2	76.1	106.8	95.3	50.6	19.1	6.3	2.1	0.3
1996	48.4	18.8	77.2	106.4	94.0	50.2	19.0	6.2	2.1	0.2
1995	49.2	19.7	78.5	105.7	92.9	49.6	19.0	6.3	2.2	0.2
1994	50.0	19.8	78.5	106.4	92.5	49.3	18.9	6.3	2.2	0.3
1993	50.9	19.2	77.9	108.0	92.4	49.2	18.6	6.4	2.2	0.2
1992	52.2	18.9	78.2	110.1	93.2	49.3	18.8	6.4	2.2	0.3
1991	53.3	19.1	78.4	111.5	93.6	49.7	18.5	6.5	2.2	0.3
1990	54.6	18.1	78.3	113.2	96.1	50.9	19.2	6.5	2.2	0.3
1989	53.3	16.7	75.9	110.8	93.0	49.1	18.7	6.3	2.1	0.4
1988	52.2	14.8	73.7	108.3	91.2	47.6	18.1	6.1	2.1	0.3
1987	51.6	13.9	72.8	107.0	89.5	46.2	17.3	5.9	2.0	0.3
1986	51.7	13.8	73.3	107.0	88.7	44.4	16.6	5.7	2.0	0.3
1985	52.6	14.0	74.7	109.9	89.5	44.8	16.3	5.6	1.9	0.3
1984 ⁴	51.8	14.0	74.3	108.8	87.9	43.5	16.0	5.3	1.9	0.3
1983 ⁴	52.0	14.4	76.3	110.2	86.8	42.6	15.5	5.3	1.8	0.3
1982 ⁴	53.1	14.9	80.1	114.2	87.5	41.7	15.6	5.3	1.9	0.3
1981 ⁴	52.9	15.0	81.7	115.8	85.8	40.3	15.0	5.2	1.8	0.3
1980 ⁴	53.4	15.4	84.9	119.4	87.8	39.7	15.0	5.1	1.8	0.3
Black										
1999	66.9	41.5	133.5	134.0	95.4	55.2	26.6	11.6	5.3	1.0
1998	68.1	43.3	136.8	134.4	94.3	54.9	26.7	11.9	5.3	1.0
1997	68.0	45.6	136.6	130.2	91.8	53.3	26.1	11.7	5.5	1.1
1996	68.3	47.2	138.0	127.2	89.3	52.3	25.7	11.6	5.5	1.1
1995	70.1	50.5	140.5	126.6	89.6	52.6	25.7	12.1	5.6	1.1
1994	74.9	54.6	150.5	131.9	92.9	54.2	26.4	13.0	6.0	1.1
1993	78.3	56.6	153.8	136.0	95.3	56.6	27.7	13.5	6.4	1.3
1992	81.0	57.4	158.0	140.1	96.8	56.9	28.4	13.9	6.2	1.4
1991	83.4	58.0	158.5	143.3	100.1	58.8	29.4	14.2	6.7	1.4
1990	84.9	55.2	158.2	144.9	103.2	60.4	31.1	15.0	7.1	1.4
1989	84.1	52.9	153.4	143.5	101.4	59.9	31.1	14.9	6.9	2.7
1988	80.7	48.1	144.1	137.9	100.0	58.0	30.6	14.3	6.9	1.4
1987	78.3	44.6	136.1	133.9	97.4	58.0	30.0	13.8	6.6	1.3
1986	77.2	42.6	131.4	131.6	97.4	58.0	29.1	13.5	6.7	1.3
1985	77.2	41.8	129.5	132.7	97.3	59.4	29.5	13.3	6.5	1.2
1984 ⁴	76.7	40.9	128.0	132.2	98.3	58.4	29.3	13.3	6.1	1.2
1983 ⁴	77.2	40.7	129.1	134.4	99.0	59.6	29.6	13.5	6.0	1.2
1982 ⁴	79.5	40.3	133.4	141.2	103.6	61.1	29.6	13.9	6.0	1.2
1981 ⁴	80.4	38.9	138.4	145.6	104.3	61.3	29.7	13.3	5.7	1.2
1980 ⁴	83.0	40.1	145.3	152.8	109.6	62.0	31.2	13.6	5.9	1.1

¹ Rates computed by relating total births, regardless of age of father, to men aged 15-54 years.

² Rates computed by relating births of fathers under 20 years of age to men aged 15-19 years.

³ Includes races other than white and black.

⁴ Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all men (including Hispanic men) are classified only according to their race; see Technical notes. Age of father was not stated for 14 percent of births in 1999.

Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race and Hispanic origin of mother: United States, 1999

Age and race of mother	Total	Years of school completed by mother						Percent 12 years or more	Percent 16 years or more
		0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not Stated		
All races ¹									
All ages	3,959,417	222,661	623,934	1,254,283	858,068	937,071	63,400	78.3	24.1
Under 15 years	9,054	6,823	1,866	-	-	-	365	-	-
15-19 years	476,050	39,021	246,934	157,339	23,726	-	9,030	38.8	-
15 years	22,896	6,993	15,190	-	-	-	713	-	-
16 years	51,516	6,593	42,450	1,302	-	-	1,171	2.6	-
17 years	89,176	6,953	66,600	13,539	293	-	1,791	15.8	-
18 years	133,988	8,285	63,654	55,711	3,985	-	2,353	45.3	-
19 years	178,474	10,197	59,040	86,787	19,448	-	3,002	60.5	-
20-24 years	981,929	60,243	199,572	429,099	225,011	52,477	15,527	73.1	5.4
25-29 years	1,078,252	54,948	101,264	331,150	284,683	290,320	15,887	85.3	27.3
30-34 years	892,400	36,700	48,888	216,015	207,210	370,390	13,197	90.3	42.1
35-39 years	434,294	19,372	21,243	101,083	98,525	186,589	7,482	90.5	43.7
40 years and over	87,438	5,554	4,167	19,597	18,913	37,295	1,912	88.6	43.6
White, total									
All ages	3,132,501	197,659	460,112	960,003	674,961	794,890	44,876	78.7	25.7
Under 15 years	4,739	3,545	987	-	-	-	207	-	-
15-19 years	337,888	32,885	172,330	110,533	16,037	-	6,103	38.1	-
15 years	14,193	4,638	9,130	-	-	-	425	-	-
16 years	34,649	5,229	27,739	900	-	-	781	2.7	-
17 years	62,782	6,128	45,951	9,266	228	-	1,209	15.4	-
18 years	96,254	7,480	45,911	38,600	2,634	-	1,629	43.6	-
19 years	130,010	9,410	43,599	61,767	13,175	-	2,059	58.6	-
20-24 years	748,371	56,175	150,646	322,029	167,513	40,992	11,016	72.0	5.6
25-29 years	873,654	50,482	79,784	260,246	227,565	244,155	11,422	84.9	28.3
30-34 years	739,948	32,814	37,998	172,385	168,819	318,484	9,448	90.3	43.6
35-39 years	356,959	17,057	15,441	79,792	79,861	159,468	5,340	90.8	45.4
40 years and over	70,942	4,701	2,926	15,018	15,166	31,791	1,340	89.0	45.7
White, non-Hispanic									
All ages	2,346,450	40,289	252,023	733,181	568,737	730,628	21,592	87.4	31.4
Under 15 years	2,048	1,572	402	-	-	-	74	-	-
15-19 years	212,923	11,478	106,084	80,611	12,138	-	2,612	44.1	-
15 years	6,963	2,158	4,637	-	-	-	168	-	-
16 years	18,886	2,203	15,782	581	-	-	320	3.1	-
17 years	37,671	2,187	28,727	6,103	164	-	490	16.9	-
18 years	62,282	2,378	29,366	27,933	1,888	-	717	48.4	-
19 years	87,121	2,552	27,572	45,994	10,086	-	917	65.1	-
20-24 years	514,386	11,442	85,309	242,105	135,206	35,588	4,736	81.0	7.0
25-29 years	663,569	7,853	35,826	198,206	192,829	223,320	5,535	93.4	33.9
30-34 years	600,830	4,683	15,590	135,095	145,638	294,794	5,030	96.6	49.5
35-39 years	294,590	2,513	7,382	64,910	69,523	147,352	2,910	96.6	50.5
40 years and over	58,104	748	1,430	12,254	13,403	29,574	695	96.2	51.5
Black, total									
All ages	605,970	15,345	139,104	234,181	137,265	67,430	12,645	74.0	11.4
Under 15 years	3,977	3,045	790	-	-	-	142	-	-
15-19 years	121,166	5,165	65,962	40,999	6,578	-	2,462	40.1	-
15 years	7,865	2,135	5,475	-	-	-	255	-	-
16 years	14,942	1,148	13,125	345	-	-	324	2.4	-
17 years	23,112	670	18,190	3,701	52	-	499	16.6	-
18 years	32,948	624	15,581	15,011	1,124	-	608	49.9	-
19 years	42,299	588	13,591	21,942	5,402	-	776	65.9	-
20-24 years	193,211	2,477	42,357	90,316	46,805	7,859	3,397	76.4	4.1
25-29 years	138,868	1,927	16,697	53,325	41,746	22,426	2,747	86.3	16.5
30-34 years	91,486	1,448	8,055	31,233	26,580	21,971	2,199	89.4	24.6
35-39 years	47,277	946	4,332	15,186	13,005	12,456	1,352	88.5	27.1
40 years and over	9,985	337	911	3,122	2,551	2,718	346	87.1	28.2

See footnotes at end of table.

Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race of mother: United States, 1999 --Con.

Age and race of mother	Total	Years of school completed by mother						Percent 12 years or more	Percent 16 years or more
		0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not Stated		
Black, non-Hispanic									
All ages	588,981	14,069	135,306	228,332	133,984	65,779	11,511	74.1	11.4
Under 15 years	3,890	2,985	768	-	-	-	137	-	-
15-19 years	118,285	4,990	64,416	40,185	6,416	-	2,278	40.2	-
15 years	7,698	2,099	5,355	-	-	-	244	-	-
16 years	14,573	1,115	12,822	334	-	-	302	2.3	-
17 years	22,580	641	17,804	3,612	51	-	472	16.6	-
18 years	32,155	590	15,223	14,703	1,075	-	564	49.9	-
19 years	41,279	545	13,212	21,536	5,290	-	696	66.1	-
20-24 years	188,247	2,178	41,254	88,312	45,678	7,685	3,140	76.5	4.2
25-29 years	134,784	1,624	16,086	51,875	40,794	21,920	2,485	86.6	16.6
30-34 years	88,403	1,214	7,715	30,240	25,884	21,387	1,963	89.7	24.7
35-39 years	45,746	791	4,183	14,697	12,724	12,145	1,206	88.8	27.3
40 years and over	9,626	287	884	3,023	2,488	2,642	302	87.4	28.3
Hispanic ²									
All ages	764,339	158,351	208,350	223,122	102,507	55,076	16,933	50.9	7.4
Under 15 years	2,725	2,009	595	-	-	-	121	-	-
15-19 years	124,677	21,471	66,410	29,894	3,952	-	2,950	27.8	-
15 years	7,288	2,488	4,563	-	-	-	237	-	-
16 years	15,828	3,041	12,068	322	-	-	397	2.1	-
17 years	25,113	3,941	17,294	3,199	65	-	614	13.3	-
18 years	33,806	5,115	16,470	10,692	780	-	749	34.7	-
19 years	42,642	6,886	16,015	15,681	3,107	-	953	45.1	-
20-24 years	231,475	44,992	65,256	78,955	32,008	5,189	5,075	51.3	2.3
25-29 years	203,985	42,908	44,035	60,819	33,421	18,418	4,384	56.4	9.2
30-34 years	131,369	28,317	22,464	36,321	21,855	19,637	2,775	60.5	15.3
35-39 years	58,146	14,664	8,102	14,437	9,623	9,989	1,331	59.9	17.6
40 years and over	11,962	3,990	1,488	2,696	1,648	1,843	297	53.0	15.8

- Quantity zero.

¹ Includes races other than white and black.² Includes all persons of Hispanic origin of any race.

Table 22. Number of live births and percent distribution by weight gain of mother during pregnancy and median weight gain, according to period of gestation, race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1999

Period of gestation ¹ and race and Hispanic origin of mother	All births	Weight gain during pregnancy									Median weight gain in pounds
		Less than 16 pounds	16-20 pounds	21-25 pounds	26-30 pounds	31-35 pounds	36-40 pounds	41-45 pounds	46 pounds or more	Not stated	
Number											
All gestation periods ²											
All races ³	3,440,909	372,648	338,589	437,139	569,758	440,134	405,150	210,134	379,995	287,362	...
White, total	2,710,960	270,242	255,710	346,633	458,542	363,024	330,742	172,455	303,819	209,793	...
White, non-Hispanic	2,174,114	207,934	196,435	279,269	376,403	304,751	277,399	145,874	256,676	129,373	...
Black, total	570,567	86,756	65,658	68,028	83,552	56,959	57,211	29,589	63,748	59,066	...
Black, non-Hispanic	554,731	84,865	64,068	66,175	81,151	55,203	55,439	28,667	61,876	57,287	...
Hispanic ⁴	514,975	60,504	57,889	65,119	78,687	55,720	51,051	25,475	45,344	75,186	...
Under 37 weeks											
All races ³	410,507	65,992	49,643	52,953	59,966	41,302	37,517	19,307	38,516	45,311	...
White, total	292,556	41,989	33,878	38,728	44,137	31,735	28,422	14,949	29,166	29,552	...
White, non-Hispanic	230,221	31,673	25,968	31,015	35,788	26,280	23,398	12,541	24,681	18,877	...
Black, total	100,218	21,345	13,519	11,782	13,073	7,820	7,612	3,636	8,186	13,245	...
Black, non-Hispanic	98,165	20,990	13,263	11,527	12,786	7,654	7,437	3,561	8,021	12,926	...
Hispanic ⁴	60,691	10,153	7,810	7,564	8,153	5,280	4,863	2,328	4,358	10,182	...
37-39 weeks											
All races ³	1,662,072	174,748	166,164	219,124	284,736	218,076	196,106	100,038	174,161	128,919	...
White, total	1,313,147	128,635	126,221	173,981	229,337	179,468	159,863	81,889	138,810	94,943	...
White, non-Hispanic	1,057,509	99,663	97,383	140,566	188,780	151,236	134,217	69,420	117,332	58,912	...
Black, total	268,872	38,516	31,067	33,367	40,874	28,188	27,767	14,191	29,548	25,354	...
Black, non-Hispanic	261,595	37,664	30,301	32,473	39,757	27,352	26,940	13,767	28,721	24,620	...
Hispanic ⁴	245,487	28,163	28,144	32,308	38,817	27,045	24,588	11,960	20,768	33,694	...
40 weeks and over											
All races ³	1,354,859	130,719	122,117	164,195	224,142	180,121	170,934	90,517	166,743	105,371	...
White, total	1,095,471	98,908	95,134	133,286	184,373	151,312	142,003	75,406	135,409	79,640	...
White, non-Hispanic	880,153	76,191	72,762	107,220	151,363	126,898	119,464	63,766	114,378	48,111	...
Black, total	199,168	26,485	20,935	22,734	29,468	20,880	21,746	11,727	25,919	19,274	...
Black, non-Hispanic	192,842	25,836	20,367	22,033	28,474	20,129	20,981	11,305	25,041	18,676	...
Hispanic ⁴	205,967	21,985	21,785	25,081	31,510	23,235	21,481	11,126	20,094	29,670	...
Percent distribution											
All gestation periods ²											
All races ³	100.0	11.8	10.7	13.9	18.1	14.0	12.8	6.7	12.0	...	30.5
White, total	100.0	10.8	10.2	13.9	18.3	14.5	13.2	6.9	12.1	...	30.7
White, non-Hispanic	100.0	10.2	9.6	13.7	18.4	14.9	13.6	7.1	12.6	...	30.8
Black, total	100.0	17.0	12.8	13.3	16.3	11.1	11.2	5.8	12.5	...	30.0
Black, non-Hispanic	100.0	17.1	12.9	13.3	16.3	11.1	11.1	5.8	12.4	...	30.0
Hispanic ⁴	100.0	13.8	13.2	14.8	17.9	12.7	11.6	5.8	10.3	...	29.8
Under 37 weeks											
All races ³	100.0	18.1	13.6	14.5	16.4	11.3	10.3	5.3	10.5	...	27.9
White, total	100.0	16.0	12.9	14.7	16.8	12.1	10.8	5.7	11.1	...	28.9
White, non-Hispanic	100.0	15.0	12.3	14.7	16.9	12.4	11.1	5.9	11.7	...	30.0
Black, total	100.0	24.5	15.5	13.5	15.0	9.0	8.8	4.2	9.4	...	25.4
Black, non-Hispanic	100.0	24.6	15.6	13.5	15.0	9.0	8.7	4.2	9.4	...	25.4
Hispanic ⁴	100.0	20.1	15.5	15.0	16.1	10.5	9.6	4.6	8.6	...	25.9
37-39 weeks											
All races ³	100.0	11.4	10.8	14.3	18.6	14.2	12.8	6.5	11.4	...	30.5
White, total	100.0	10.6	10.4	14.3	18.8	14.7	13.1	6.7	11.4	...	30.6
White, non-Hispanic	100.0	10.0	9.8	14.1	18.9	15.1	13.4	7.0	11.7	...	30.7
Black, total	100.0	15.8	12.8	13.7	16.8	11.6	11.4	5.8	12.1	...	30.1
Black, non-Hispanic	100.0	15.9	12.8	13.7	16.8	11.5	11.4	5.8	12.1	...	30.1
Hispanic ⁴	100.0	13.3	13.3	15.3	18.3	12.8	11.6	5.6	9.8	...	29.6
40 weeks and over											
All races ³	100.0	10.5	9.8	13.1	17.9	14.4	13.7	7.2	13.3	...	30.9
White, total	100.0	9.7	9.4	13.1	18.1	14.9	14.0	7.4	13.3	...	31.0
White, non-Hispanic	100.0	9.2	8.7	12.9	18.2	15.3	14.4	7.7	13.7	...	31.6
Black, total	100.0	14.7	11.6	12.6	16.4	11.6	12.1	6.5	14.4	...	30.4
Black, non-Hispanic	100.0	14.8	11.7	12.7	16.3	11.6	12.0	6.5	14.4	...	30.4
Hispanic ⁴	100.0	12.5	12.4	14.2	17.9	13.2	12.2	6.3	11.4	...	30.3

... Category not applicable.

¹ Expressed in completed weeks.² Includes births with period of gestation not stated.³ Includes races other than white and black and origin not stated.⁴ Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

Table 23. Percent low birthweight by weight gain of mother during pregnancy, period of gestation, and race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1999

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

Period of gestation ¹ and race and Hispanic origin of mother	Total	Weight gain during pregnancy								
		Less than 16 pounds	16-20 pounds	21-25 pounds	26-30 pounds	31-35 pounds	36-40 pounds	41-45 pounds	46 pounds or more	Not stated
All gestation periods ²										
All races ³	7.8	13.9	10.6	8.0	6.4	5.4	5.2	5.2	5.5	11.7
White, total	6.7	11.7	9.2	7.0	5.6	4.9	4.7	4.8	5.1	9.9
White, non-Hispanic	6.7	11.8	9.5	7.1	5.6	4.9	4.7	4.8	5.2	10.6
Black, total	13.2	21.1	16.4	12.9	10.9	9.2	8.4	7.9	7.6	18.8
Black, non-Hispanic	13.3	21.2	16.5	13.1	11.0	9.3	8.5	8.0	7.7	18.9
Hispanic, total ⁴	6.8	11.3	8.3	6.6	5.5	4.8	4.6	4.4	4.5	8.6
Mexican ⁴	6.3	10.2	7.3	6.0	5.0	4.4	4.3	4.1	4.1	7.7
Puerto Rican ⁴	9.4	16.0	12.1	9.7	8.3	6.5	6.3	5.5	5.6	15.1
Cuban ⁴	6.8	12.0	10.8	7.7	6.3	5.9	4.5	4.1	4.7	14.8
Central and South American ⁴	6.4	11.6	8.4	6.1	5.2	4.7	4.5	4.5	4.5	8.2
Other and unknown Hispanic ⁴	7.8	13.8	10.7	7.6	6.1	5.5	4.8	4.4	4.8	11.8
Under 37 weeks										
All races ³	43.9	56.7	48.9	42.5	38.2	36.0	35.4	36.4	36.0	53.0
White, total	41.7	53.9	46.9	40.8	36.5	34.9	34.8	35.5	35.9	50.1
White, non-Hispanic	42.9	55.9	48.9	42.3	37.5	36.0	36.0	36.7	36.8	54.3
Black, total	50.8	62.7	54.5	48.6	44.2	40.6	38.9	40.1	37.1	60.5
Black, non-Hispanic	50.9	62.8	54.6	48.8	44.3	40.8	38.9	40.4	37.2	60.7
Hispanic ⁴	36.8	47.7	40.1	34.6	32.2	29.4	29.1	28.8	29.3	41.5
37-39 weeks										
All races ³	4.1	6.3	5.4	4.3	3.7	3.2	3.1	3.1	3.2	5.0
White, total	3.5	5.3	4.7	3.8	3.2	2.8	2.7	2.7	2.8	4.1
White, non-Hispanic	3.5	5.3	4.7	3.8	3.2	2.7	2.7	2.7	2.8	4.0
Black, total	6.8	9.6	8.3	7.0	6.2	5.6	5.0	4.9	4.7	8.3
Black, non-Hispanic	6.8	9.7	8.4	7.0	6.2	5.6	5.1	4.9	4.7	8.3
Hispanic ⁴	3.8	5.3	4.5	3.9	3.4	3.2	3.0	2.9	2.8	4.3
40 weeks and over										
All races ³	1.5	2.6	2.2	1.7	1.3	1.1	1.0	1.0	0.9	2.1
White, total	1.2	2.1	1.9	1.4	1.1	1.0	0.8	0.8	0.8	1.7
White, non-Hispanic	1.2	2.1	1.9	1.4	1.1	0.9	0.8	0.8	0.8	1.5
Black, total	2.9	4.6	3.7	3.2	2.7	2.3	2.0	1.6	1.7	4.0
Black, non-Hispanic	3.0	4.6	3.8	3.2	2.7	2.4	2.1	1.7	1.7	4.0
Hispanic ⁴	1.5	2.2	1.7	1.6	1.3	1.1	0.9	0.8	1.0	2.0

¹ Expressed in completed weeks.² Includes births with period of gestation not stated.³ Includes races other than white and black and origin not stated.⁴ Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

Table 24. Percent of births with selected medical or health characteristics, by detailed race of mother, by place of birth of mother: United States, 1999

Characteristic	All races	White	Black	American Indian ¹	Asian or Pacific Islander					
					Total	Chinese	Japanese	Hawaiian	Filipino	Other
All Births										
Mother										
Prenatal care beginning in the first trimester	83.2	85.1	74.1	69.5	83.7	88.5	90.7	79.6	84.2	81.8
Late or no prenatal care	3.8	3.2	6.6	8.2	3.5	2.0	2.1	4.0	2.8	4.1
Smoker ²	12.6	13.6	9.3	20.2	2.9	0.5	4.5	14.7	3.3	2.3
Drinker ³	1.0	1.0	1.2	3.5	0.3	0.2	1.0	0.8	0.2	0.3
Weight gain of less than 16 lbs ⁴	11.8	10.8	17.0	15.9	9.7	6.5	10.8	9.6	8.3	10.6
Median weight gain ⁴	30.5	30.7	30.0	30.1	30.1	30.4	26.3	30.9	30.5	30.0
Cesarean delivery rate	22.0	21.9	23.2	18.9	20.2	20.3	16.5	14.3	23.6	19.8
Infant										
Preterm births ⁵	11.8	10.7	17.5	12.9	10.4	7.6	9.3	12.3	12.4	10.7
Birthweight										
Very low birthweight ⁶	1.5	1.2	3.1	1.3	1.1	0.7	0.9	1.4	1.4	1.1
Low birthweight ⁷	7.6	6.6	13.1	7.1	7.4	5.2	7.9	7.7	8.3	7.8
4,000 grams or more ⁸	9.9	11.0	5.4	12.2	5.8	6.7	4.8	8.5	6.1	5.5
5-minute Apgar score of less than 7 ⁹ ..	1.4	1.2	2.4	1.5	1.0	0.6	1.2	2.0	1.1	1.0
Births to mothers born in the 50 States and D.C.										
Mother										
Prenatal care beginning in the first trimester	84.7	87.2	73.9	69.5	82.5	91.3	92.6	79.8	82.3	78.7
Late or no prenatal care	3.3	2.5	6.6	8.2	3.4	1.5	1.6	3.8	3.2	4.4
Smoker ²	14.6	15.5	10.3	20.9	9.4	3.4	6.3	14.8	7.9	8.4
Drinker ³	1.1	1.0	1.3	3.6	0.7	*	*	0.8	*	0.8
Weight gain of less than 16 lbs ⁴	11.7	10.4	17.3	16.0	8.7	7.2	10.1	9.5	8.1	8.3
Median weight gain ⁴	30.6	30.8	30.0	30.1	30.6	30.4	27.9	30.9	30.8	30.8
Cesarean delivery rate	22.1	22.1	22.9	18.9	16.9	17.2	18.4	14.4	17.5	17.5
Infant										
Preterm births ⁵	12.0	10.7	17.9	12.8	11.7	9.7	10.6	12.3	12.7	11.8
Birthweight										
Very low birthweight ⁶	1.5	1.2	3.2	1.3	1.3	0.9	0.9	1.4	1.6	1.3
Low birthweight ⁷	7.9	6.7	13.5	7.1	8.2	7.0	8.2	7.7	8.9	8.4
4,000 grams or more ⁸	10.2	11.2	5.0	12.4	7.1	6.7	5.9	8.5	6.0	7.5
5-minute Apgar score of less than 7 ⁹ ..	1.5	1.2	2.5	1.5	1.5	*	1.5	2.0	1.3	1.4
Births to mothers born outside the 50 States and D.C.										
Mother										
Prenatal care beginning in the first trimester	77.1	75.5	76.0	70.0	83.9	88.3	89.4	71.0	84.7	82.2
Late or no prenatal care	5.8	6.3	6.6	9.2	3.5	2.1	2.5	*	2.7	4.1
Smoker ²	2.3	2.7	1.5	4.8	1.5	0.3	3.2	*	2.1	1.6
Drinker ³	0.4	0.5	0.4	*	0.2	0.1	1.4	*	0.2	0.2
Weight gain of less than 16 lbs ⁴	12.6	13.1	13.8	13.3	9.9	6.4	11.2	*	8.3	10.9
Median weight gain ⁴	29.7	29.5	30.0	29.4	30.0	30.4	25.8	30.4	30.4	29.5
Cesarean delivery rate	21.4	21.0	25.5	19.4	20.8	20.7	15.2	*	25.1	20.1
Infant										
Preterm births ⁵	10.8	10.5	13.9	13.3	10.2	7.3	8.4	*	12.3	10.5
Birthweight										
Very low birthweight ⁶	1.1	1.0	2.4	1.0	1.0	0.6	0.8	*	1.4	1.0
Low birthweight ⁷	6.4	5.8	9.6	7.9	7.3	5.0	7.8	*	8.1	7.7
4,000 grams or more ⁸	9.1	10.0	8.6	7.2	5.6	6.7	4.1	*	6.1	5.2
5-minute Apgar score of less than 7 ⁹ ..	1.1	1.0	1.8	*	0.9	0.6	1.0	*	1.1	1.0

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

¹ Includes births to Aleuts and Eskimos.² Excludes data for California and South Dakota, which did not report tobacco use on the birth certificate.³ Excludes data for California and South Dakota, which did not report alcohol use on the birth certificate.⁴ Excludes data for California, which did not report weight gain on the birth certificate. Median weight shown in pounds.⁵ Born prior to 37 completed weeks of gestation.⁶ Birthweight of less than 1,500 grams (3 lb 4 oz).⁷ Birthweight of less than 2,500 grams (5 lb 8 oz).⁸ Equivalent to 8 lb 14 oz.⁹ Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 25. Percent of births with selected medical or health characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1999

Characteristic	Origin of mother									
	All origins ¹	Hispanic						Non-Hispanic		
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
All Births										
Mother										
Prenatal care beginning in the first trimester	83.2	74.4	73.1	77.7	91.4	77.6	74.8	85.3	88.4	74.1
Late or no prenatal care	3.8	6.3	6.7	5.0	1.4	5.2	6.3	3.2	2.3	6.6
Smoker ³	12.6	3.7	2.6	10.5	3.3	1.4	7.7	14.1	15.9	9.4
Drinker ⁴	1.0	0.6	0.5	0.8	0.3	0.3	1.3	1.1	1.0	1.2
Weight gain of less than 16 lbs ⁵	11.8	13.8	15.0	12.8	7.1	12.0	12.0	11.5	10.2	17.1
Median weight gain ⁵	30.5	29.8	28.5	30.5	32.3	30.2	30.3	30.6	30.8	30.0
Cesarean delivery rate	22.0	21.2	20.6	21.5	33.2	23.1	20.5	22.2	22.1	23.2
Infant										
Preterm births ⁶	11.8	11.4	11.1	13.7	11.5	11.4	11.9	11.9	10.5	17.6
Birthweight										
Very low birthweight ⁷	1.5	1.1	1.0	1.9	1.5	1.1	1.3	1.5	1.2	3.2
Low birthweight ⁸	7.6	6.4	5.9	9.3	6.8	6.4	7.6	7.9	6.6	13.2
4,000 grams or more ⁹	9.9	9.0	9.4	6.9	9.6	9.1	7.6	10.1	11.6	5.3
5-minute Apgar score of less than 7 ¹⁰ ...	1.4	1.1	1.2	1.3	0.7	0.9	1.1	1.5	1.2	2.4
Births to mothers born in the 50 States and D.C.										
Mother										
Prenatal care beginning in the first trimester	84.7	77.0	76.6	77.6	91.2	82.4	75.1	85.6	88.5	73.9
Late or no prenatal care	3.3	5.0	5.0	5.0	1.5	3.4	6.1	3.1	2.2	6.6
Smoker ³	14.6	7.0	5.2	11.9	4.7	4.8	9.7	15.2	16.4	10.2
Drinker ⁴	1.1	1.0	0.9	0.9	0.5	0.7	1.6	1.1	1.0	1.3
Weight gain of less than 16 lbs ⁵	11.7	12.6	13.2	12.1	7.4	9.4	12.3	11.6	10.2	17.4
Median weight gain ⁵	30.6	29.8	28.5	30.5	32.3	30.2	30.3	30.6	30.8	30.0
Cesarean delivery rate	22.1	21.2	21.1	21.2	28.3	21.4	20.1	22.2	22.2	22.9
Infant										
Preterm births ⁶	12.0	12.3	12.1	13.8	11.1	11.1	12.4	12.0	10.6	18.0
Birthweight										
Very low birthweight ⁷	1.5	1.3	1.2	1.9	1.8	1.5	1.4	1.5	1.2	3.2
Low birthweight ⁸	7.9	7.2	6.7	9.4	6.8	7.1	8.2	8.0	6.7	13.6
4,000 grams or more ⁹	10.2	8.1	8.4	7.1	8.7	8.7	7.1	10.4	11.6	5.0
5-minute Apgar score of less than 7 ¹⁰ ...	1.5	1.2	1.2	1.3	0.6	1.1	1.2	1.5	1.2	2.5
Births to mothers born outside the 50 States and D.C.										
Mother										
Prenatal care beginning in the first trimester	77.1	72.8	70.8	78.0	91.6	77.1	74.8	83.2	85.5	76.3
Late or no prenatal care	5.8	7.1	7.8	4.9	1.3	5.4	6.4	4.0	3.6	6.5
Smoker ³	2.3	1.5	0.9	7.8	2.4	1.1	2.1	3.3	6.2	1.4
Drinker ⁴	0.4	0.3	0.3	0.8	*	0.3	0.4	0.6	1.0	0.3
Weight gain of less than 16 lbs ⁵	12.6	14.6	16.3	14.0	6.8	12.3	11.3	10.3	8.7	14.2
Median weight gain ⁵	29.7	28.3	26.6	30.2	32.1	30.1	30.2	30.3	30.7	29.7
Cesarean delivery rate	21.4	21.2	20.2	22.1	36.6	23.3	22.0	21.6	20.7	25.4
Infant										
Preterm births ⁶	10.8	10.9	10.5	13.5	11.7	11.5	10.1	10.6	9.3	14.2
Birthweight										
Very low birthweight ⁷	1.1	1.0	0.9	1.7	1.3	1.1	1.0	1.3	1.0	2.6
Low birthweight ⁸	6.4	5.8	5.4	9.1	6.8	6.3	5.5	7.3	6.0	9.9
4,000 grams or more ⁹	9.1	9.7	10.0	6.6	10.3	9.2	9.0	8.3	11.4	8.5
5-minute Apgar score of less than 7 ¹⁰ ...	1.1	1.1	1.2	1.3	0.7	0.9	0.9	1.1	0.9	1.9

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

¹ Includes origin not stated.² Includes races other than white and black.³ Excludes data for California and South Dakota, which did not report tobacco use on the birth certificate.⁴ Excludes data for California and South Dakota, which did not report alcohol use on the birth certificate.⁵ Excludes data for California, which did not report weight gain on the birth certificate. Median weight gain shown in pounds.⁶ Born prior to 37 completed weeks of gestation.⁷ Birthweight of less than 1,500 grams (3 lb 4 oz).⁸ Birthweight of less than 2,500 grams (5 lb 8 oz).⁹ Equivalent to 8 lb 14 oz.¹⁰ Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 26. Live births to mothers with selected medical risk factors and rates by age of mother, by race of mother: United States, 1999

[Rates are number of live births with specified medical risk factor per 1,000 live births in specified group]

Medical risk factor and race of mother	All births ¹	Medical risk factor reported	Age of mother							Not stated ²
			All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	
All races³										
Anemia	3,959,417	90,322	23.2	33.1	28.3	20.9	18.0	18.0	18.2	63,752
Cardiac disease	3,959,417	20,189	5.2	2.8	3.5	5.0	6.7	8.0	9.7	63,752
Acute or chronic lung disease	3,959,417	43,117	11.1	13.8	12.0	10.2	9.9	10.2	12.0	63,752
Diabetes	3,959,417	106,413	27.3	8.3	16.3	26.9	36.1	49.0	64.8	63,752
Genital herpes ⁴	3,610,172	33,636	9.5	6.3	8.2	9.1	11.2	12.4	13.2	61,402
Hydramnios/Oligohydramnios	3,959,417	52,704	13.5	14.7	13.8	12.9	12.7	14.1	17.5	63,752
Hemoglobinopathy	3,959,417	3,165	0.8	1.0	1.0	0.7	0.7	0.7	0.9	63,752
Hypertension, chronic	3,959,417	27,912	7.2	2.5	4.3	6.5	8.7	14.0	24.5	63,752
Hypertension, pregnancy-associated	3,959,417	148,837	38.2	43.3	38.4	37.8	34.9	38.1	47.7	63,752
Eclampsia	3,959,417	11,993	3.1	4.4	3.2	2.8	2.6	2.9	4.0	63,752
Incompetent cervix	3,959,417	11,344	2.9	1.3	2.1	2.8	3.7	4.7	5.0	63,752
Previous infant 4000+ grams	3,959,417	42,610	10.9	1.3	6.2	11.7	15.6	18.9	21.5	63,752
Previous preterm or small-for-gestational-age infant	3,959,417	47,311	12.1	4.9	12.2	12.7	13.2	15.6	16.2	63,752
Renal disease	3,959,417	11,038	2.8	2.8	3.1	2.9	2.7	2.5	2.4	63,752
Rh sensitization ⁵	3,920,635	25,448	6.6	5.5	6.1	6.9	7.1	7.3	7.0	65,468
Uterine bleeding ⁴	3,610,172	22,332	6.3	4.4	5.5	6.3	7.1	7.7	9.3	61,402
White										
Anemia	3,132,501	62,826	20.4	29.3	24.3	18.7	16.5	16.5	16.4	48,976
Cardiac disease	3,132,501	17,004	5.5	2.8	3.6	5.2	7.2	8.5	10.4	48,976
Acute or chronic lung disease	3,132,501	32,523	10.5	12.5	11.1	9.9	9.8	10.2	12.1	48,976
Diabetes	3,132,501	81,524	26.4	8.5	16.2	25.9	33.5	45.3	59.6	48,976
Genital herpes ⁴	2,834,420	26,317	9.4	5.5	7.3	8.7	11.7	13.4	14.7	47,006
Hydramnios/Oligohydramnios	3,132,501	39,850	12.9	14.1	13.2	12.3	12.2	13.4	16.8	48,976
Hemoglobinopathy	3,132,501	1,109	0.4	0.3	0.3	0.4	0.4	0.4	0.4	48,976
Hypertension, chronic	3,132,501	19,139	6.2	2.1	3.8	5.7	7.4	11.3	19.2	48,976
Hypertension, pregnancy-associated	3,132,501	119,203	38.7	42.8	39.5	39.0	35.2	37.8	46.8	48,976
Eclampsia	3,132,501	8,909	2.9	4.0	3.0	2.7	2.5	2.8	3.6	48,976
Incompetent cervix	3,132,501	7,860	2.5	1.2	1.7	2.4	3.2	4.3	4.8	48,976
Previous infant 4000+ grams	3,132,501	38,000	12.3	1.4	6.9	12.8	17.1	20.8	24.1	48,976
Previous preterm or small-for-gestational-age infant	3,132,501	36,306	11.8	4.6	11.5	12.1	12.9	15.2	15.9	48,976
Renal disease	3,132,501	9,338	3.0	3.2	3.3	3.1	2.9	2.6	2.5	48,976
Rh sensitization ⁵	3,097,890	23,064	7.6	6.6	7.0	7.7	8.0	8.2	7.9	50,467
Uterine bleeding ⁴	2,834,420	18,418	6.6	4.7	5.8	6.6	7.4	8.0	9.5	47,006
Black										
Anemia	605,970	22,134	37.0	41.6	41.8	33.7	30.0	29.7	28.4	7,075
Cardiac disease	605,970	2,508	4.2	2.7	3.6	4.4	5.4	7.0	6.7	7,075
Acute or chronic lung disease	605,970	9,101	15.2	17.7	16.1	14.1	12.8	13.0	14.1	7,075
Diabetes	605,970	15,326	25.6	7.2	15.3	28.6	44.2	60.3	77.7	7,075
Genital herpes ⁴	565,873	6,334	11.3	8.5	12.0	13.3	12.1	9.8	8.6	6,825
Hydramnios/Oligohydramnios	605,970	10,126	16.9	16.6	16.0	16.7	17.2	19.8	24.3	7,075
Hemoglobinopathy	605,970	1,906	3.2	3.0	3.5	2.9	3.0	3.1	4.1	7,075
Hypertension, chronic	605,970	7,727	12.9	3.6	6.4	12.7	21.4	37.6	64.1	7,075
Hypertension, pregnancy-associated	605,970	24,229	40.5	45.0	36.5	37.2	41.8	47.9	59.4	7,075
Eclampsia	605,970	2,518	4.2	5.3	3.7	4.0	3.9	4.4	5.9	7,075
Incompetent cervix	605,970	3,060	5.1	1.7	3.9	6.1	8.5	9.2	7.3	7,075
Previous infant 4000+ grams	605,970	2,892	4.8	0.8	3.4	6.4	7.9	9.8	8.7	7,075
Previous preterm or small-for-gestational-age infant	605,970	8,895	14.9	5.9	15.0	18.2	18.0	20.6	20.5	7,075
Renal disease	605,970	1,299	2.2	1.9	2.5	2.1	1.9	2.3	2.1	7,075
Rh sensitization ⁵	603,115	1,977	3.3	2.8	3.4	3.5	3.4	3.4	4.4	7,266
Uterine bleeding ⁴	565,873	2,659	4.8	3.6	4.4	5.1	5.5	6.4	7.1	6,825

¹ Total number of births to residents of areas reporting specified medical risk factor.² No response reported for the medical risk factor item.³ Includes races other than white and black.⁴ Texas does not report this risk factor.⁵ Kansas does not report this risk factor.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 27. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by detailed race of mother: United States, 1999

[Rates are number of live births with specified risk factors, complications, or procedures per 1,000 live births in specified group]

Medical risk factor, complication, and obstetric procedure	All races	White	Black	American Indian ¹	Asian or Pacific Islander					
					Total	Chinese	Japanese	Hawaiian	Filipino	Other
Number										
Medical risk factors										
Anemia	90,322	62,826	22,134	2,063	3,299	286	159	213	475	2,166
Diabetes	106,413	81,524	15,326	1,878	7,685	1,275	244	147	1,467	4,552
Hypertension, pregnancy-associated	148,837	119,203	24,229	1,877	3,528	347	174	205	893	1,909
Uterine bleeding ²	22,332	18,418	2,659	303	952	137	66	51	163	535
Complications of labor and/or delivery										
Meconium, moderate/heavy	213,698	156,049	45,488	2,213	9,948	1,471	307	324	1,953	5,893
Premature rupture of membrane	100,130	75,850	18,460	1,492	4,328	633	255	168	745	2,527
Dysfunctional labor	105,795	84,394	15,292	1,393	4,716	877	214	153	779	2,693
Breech/Malpresentation	152,084	126,242	18,256	1,411	6,175	1,079	332	191	1,017	3,556
Cephalopelvic disproportion	71,604	58,220	8,644	640	4,100	661	162	88	847	2,342
Fetal distress ³	140,756	105,319	28,085	1,414	5,938	880	194	129	997	3,738
Obstetric procedures										
Amniocentesis	103,874	87,511	9,296	669	6,398	1,862	614	161	929	2,832
Electronic fetal monitoring	3,296,037	2,614,055	508,057	32,248	141,677	22,609	6,529	4,213	23,533	84,793
Induction of labor	775,245	648,095	95,500	7,730	23,920	3,531	1,190	777	3,584	14,838
Ultrasound	2,579,276	2,081,638	362,419	23,781	111,438	19,116	5,333	3,022	18,569	65,398
Stimulation of labor	702,784	566,588	97,708	6,157	32,331	5,313	1,401	618	4,721	20,278
Rate										
Medical risk factors										
Anemia	23.2	20.4	37.0	53.7	18.9	10.1	19.9	41.4	16.1	20.9
Diabetes	27.3	26.4	25.6	48.9	44.0	45.0	30.5	28.6	49.8	43.8
Hypertension, pregnancy-associated	38.2	38.7	40.5	48.8	20.2	12.2	21.7	39.9	30.3	18.4
Uterine bleeding ²	6.3	6.6	4.8	8.1	5.8	5.1	8.5	10.0	5.8	5.5
Complications of labor and/or delivery										
Meconium, moderate/heavy	54.7	50.5	75.8	57.4	56.3	51.4	36.8	58.6	65.2	56.4
Premature rupture of membrane	25.6	24.5	30.8	38.7	24.5	22.1	30.6	30.4	24.9	24.2
Dysfunctional labor	27.1	27.3	25.5	36.2	26.7	30.7	25.7	27.7	26.0	25.8
Breech/Malpresentation	38.9	40.8	30.4	36.6	34.9	37.7	39.8	34.5	34.0	34.1
Cephalopelvic disproportion	18.3	18.8	14.4	16.6	23.2	23.1	19.4	15.9	28.3	22.4
Fetal distress ³	39.6	37.7	50.2	37.5	35.7	32.2	23.9	23.6	34.6	38.6
Obstetric procedures										
Amniocentesis	26.5	28.2	15.5	17.3	36.1	65.1	73.7	29.2	31.0	27.0
Electronic fetal monitoring	841.5	843.4	844.6	833.9	799.9	789.9	783.7	763.5	786.0	809.8
Induction of labor	197.9	209.1	158.8	199.9	135.0	123.4	142.8	140.8	119.7	141.7
Ultrasound	658.5	671.6	602.5	614.9	629.2	667.9	640.1	547.7	620.2	624.6
Stimulation of labor	179.4	182.8	162.4	159.2	182.5	185.6	168.2	112.0	157.7	193.7

¹ Includes births to Aleuts and Eskimos.² Texas does not report this risk factor.³ Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 28. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1999

[Rates are number of live births with specified risk factors, complications or procedures per 1,000 live births in specified group]

Medical risk factor, complication, and obstetric procedure	All origins ¹	Origin of mother								
		Hispanic						Non-Hispanic		
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total ²	White	Black
Number										
Medical risk factors										
Anemia	90,322	17,470	11,400	1,919	186	1,741	2,224	71,532	44,782	21,628
Diabetes	106,413	20,987	14,335	1,941	284	2,942	1,485	84,124	60,072	14,778
Hypertension, pregnancy-associated	148,837	20,950	14,235	1,685	406	2,831	1,793	126,284	97,489	23,653
Uterine bleeding ³	22,332	2,640	1,671	327	39	417	186	19,247	15,467	2,594
Complications of labor and/or delivery										
Meconium, moderate/heavy	213,698	43,669	29,940	3,421	525	6,882	2,901	167,436	111,446	44,280
Premature rupture of membrane	100,130	13,783	8,410	1,607	259	2,048	1,459	84,514	60,932	18,002
Dysfunctional labor	105,795	16,514	9,800	1,774	527	2,768	1,645	87,489	66,851	14,734
Breech/Malpresentation	152,084	22,583	15,033	2,065	519	3,298	1,668	127,574	102,590	17,693
Cephalopelvic disproportion	71,604	10,430	7,353	860	170	1,422	625	60,345	47,334	8,448
Fetal distress ⁴	140,756	19,253	12,045	2,211	332	3,266	1,399	119,834	85,269	27,441
Obstetric procedures										
Amniocentesis	103,874	9,462	4,623	1,217	348	2,266	1,008	92,426	76,596	8,971
Electronic fetal monitoring	3,296,037	600,947	416,444	49,007	11,777	82,217	41,502	2,658,739	1,997,493	493,948
Induction of labor	775,245	101,102	67,436	9,008	2,378	13,248	9,032	663,352	539,774	93,207
Ultrasound	2,579,276	427,558	292,042	36,947	7,684	58,793	32,092	2,121,236	1,639,197	351,940
Stimulation of labor	702,784	127,225	86,009	12,118	2,275	18,355	8,468	567,195	435,253	94,648
Rate										
Medical risk factors										
Anemia	23.2	23.1	21.3	34.3	14.3	17.0	45.1	23.1	19.4	37.1
Diabetes	27.3	27.8	26.8	34.7	21.8	28.8	30.1	27.2	26.0	25.4
Hypertension, pregnancy-associated	38.2	27.7	26.6	30.1	31.2	27.7	36.4	40.8	42.2	40.6
Uterine bleeding ³	6.3	4.4	4.2	6.0	3.1	4.4	4.6	6.6	7.1	4.8
Complications of labor and/or delivery										
Meconium, moderate/heavy	54.7	57.5	55.7	60.9	40.3	67.1	58.6	53.9	48.2	75.9
Premature rupture of membrane	25.6	18.2	15.6	28.6	19.9	20.0	29.5	27.2	26.3	30.8
Dysfunctional labor	27.1	21.8	18.2	31.6	40.4	27.0	33.2	28.2	28.9	25.2
Breech/Malpresentation	38.9	29.7	27.9	36.8	39.8	32.2	33.7	41.1	44.4	30.3
Cephalopelvic disproportion	18.3	13.7	13.7	15.3	13.0	13.9	12.6	19.4	20.5	14.5
Fetal distress ⁴	39.6	32.0	30.3	40.1	26.0	34.5	34.2	41.2	39.3	50.5
Obstetric procedures										
Amniocentesis	26.5	12.4	8.6	21.6	26.6	22.1	20.3	29.7	33.0	15.3
Electronic fetal monitoring	841.5	790.6	773.4	870.9	901.7	800.1	836.2	854.4	861.2	844.7
Induction of labor	197.9	133.0	125.2	160.1	182.1	128.9	182.0	213.2	232.7	159.4
Ultrasound	658.5	562.5	542.4	656.6	588.3	572.1	646.6	681.7	706.7	601.8
Stimulation of labor	179.4	167.4	159.7	215.3	174.2	178.6	170.6	182.3	187.6	161.9

¹ Includes origin not stated.² Includes races other than white and black.³ Texas does not report this risk factor.⁴ Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 29. Number of live births by smoking status of mother, percent smokers, and percent distribution by average number of cigarettes smoked by mothers per day, according to age and race of mother: Total of 48 reporting States and the District of Columbia, 1999

Smoking status, smoking measure, and race of mother	Age of mother									
	All ages	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					
Number										
All races¹										
Total	3,430,385	7,999	418,240	143,003	275,237	858,770	937,236	768,339	367,719	72,082
Smoker	426,036	616	74,805	21,895	52,910	141,480	101,656	64,877	35,842	6,760
Nonsmoker	2,957,167	7,254	337,491	119,147	218,344	705,380	822,983	693,115	326,770	64,174
Not stated	47,182	129	5,944	1,961	3,983	11,910	12,597	10,347	5,107	1,148
White										
Total	2,702,289	3,874	289,581	94,350	195,231	644,752	758,986	641,781	304,505	58,810
Smoker	363,374	481	64,461	18,662	45,799	121,320	87,498	54,881	29,383	5,350
Nonsmoker	2,301,012	3,317	220,745	74,292	146,453	514,211	661,218	578,166	270,833	52,522
Not stated	37,903	76	4,375	1,396	2,979	9,221	10,270	8,734	4,289	938
Black										
Total	570,478	3,853	115,514	43,951	71,563	182,883	130,504	84,909	43,654	9,161
Smoker	52,418	103	8,264	2,507	5,757	16,752	11,760	8,591	5,719	1,229
Nonsmoker	512,215	3,704	106,122	41,039	65,083	164,279	117,365	75,445	37,501	7,799
Not stated	5,845	46	1,128	405	723	1,852	1,379	873	434	133
Percent										
Smoker ¹	12.6	7.8	18.1	15.5	19.5	16.7	11.0	8.6	9.9	9.5
White	13.6	12.7	22.6	20.1	23.8	19.1	11.7	8.7	9.8	9.2
Black	9.3	2.7	7.2	5.8	8.1	9.3	9.1	10.2	13.2	13.6
Percent distribution²										
All races¹										
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1-5 cigarettes	29.0	50.5	36.8	41.3	35.0	29.8	26.0	25.7	24.4	23.9
6-10 cigarettes	41.1	35.6	41.9	40.5	42.5	42.4	40.9	39.4	38.4	36.8
11-15 cigarettes	6.2	*	4.5	4.0	4.7	5.4	7.0	7.4	7.7	7.4
16-20 cigarettes	20.3	9.8	14.9	12.9	15.7	19.4	22.3	23.1	24.1	25.8
21-30 cigarettes	2.5	*	1.3	1.0	1.5	2.2	2.8	3.1	3.7	4.1
31-40 cigarettes	0.9	*	0.4	0.3	0.5	0.7	0.9	1.2	1.5	1.8
41 cigarettes or more	0.1	*	0.1	*	0.1	0.1	0.2	0.2	0.2	*
White										
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1-5 cigarettes	26.0	45.0	33.5	37.8	31.7	26.5	23.3	23.1	21.4	21.3
6-10 cigarettes	41.7	38.4	43.6	42.4	44.0	43.5	41.1	39.2	37.8	35.6
11-15 cigarettes	6.7	*	4.8	4.3	5.0	5.9	7.6	8.1	8.5	8.0
16-20 cigarettes	21.9	11.5	16.2	14.1	17.0	20.9	23.9	24.7	26.1	28.1
21-30 cigarettes	2.7	*	1.4	1.1	1.6	2.3	3.0	3.4	4.2	4.7
31-40 cigarettes	0.9	*	0.5	0.3	0.5	0.8	0.9	1.3	1.7	2.2
41 cigarettes or more	0.1	*	0.1	*	0.1	0.1	0.2	0.2	0.2	*
Black										
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1-5 cigarettes	46.8	70.3	59.0	63.2	57.2	51.0	42.6	40.0	38.4	34.0
6-10 cigarettes	37.3	25.3	31.1	28.4	32.2	35.6	39.5	40.4	40.9	41.2
11-15 cigarettes	3.0	*	2.2	2.3	2.2	2.3	3.4	3.8	3.8	5.1
16-20 cigarettes	11.2	*	6.8	5.3	7.4	9.6	12.7	13.5	14.8	16.7
21-30 cigarettes	1.0	*	0.6	*	0.7	0.9	1.0	1.4	1.2	2.0
31-40 cigarettes	0.5	*	0.3	*	*	0.4	0.7	0.8	0.6	*
41 cigarettes or more	0.1	*	*	*	*	*	*	*	*	*

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

¹ Includes races other than white and black.² Excludes data for Indiana and New York State (but includes New York City) which did not report average number of cigarettes smoked per day in standard categories.

NOTE: Excludes data for California and South Dakota, which did not require reporting of tobacco use during pregnancy. Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 30. Number of live births by smoking status of mother and percent of mothers who smoked cigarettes during pregnancy, by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: Total of 48 reporting States, and the District of Columbia, 1999

Origin of mother	Smoking status				Age of mother									
	Total births	Smoker	Non-smoker	Not stated	All ages	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 origins ¹	3,430,385	426,036	2,957,167	47,182	12.6	7.8	18.1	15.5	19.5	16.7	11.0	8.6	9.9	9.5
Hispanic	514,796	19,058	489,930	5,808	3.7	4.3	4.6	4.3	4.9	4.1	3.1	3.1	3.6	3.9
Mexican	323,105	8,388	310,667	4,050	2.6	3.3	3.3	3.1	3.4	2.7	2.2	2.3	3.0	3.1
Puerto Rican	55,112	5,686	48,703	723	10.5	*	10.3	9.0	11.1	11.9	9.8	9.1	9.2	11.4
Cuban	12,399	406	11,952	41	3.3	*	5.8	*	6.0	4.2	2.5	2.6	3.3	*
Central and South American	78,563	1,124	76,959	480	1.4	*	1.8	1.5	1.9	1.6	1.2	1.3	1.6	1.7
Other and unknown Hispanic	45,617	3,454	41,649	514	7.7	9.0	8.7	7.6	9.4	8.6	6.7	6.5	6.9	6.1
Non-Hispanic ²	2,871,003	400,678	2,432,865	37,460	14.1	8.9	21.7	19.0	23.0	19.6	12.3	9.2	10.6	10.2
White	2,165,609	339,724	1,796,892	28,993	15.9	20.8	30.1	28.7	30.7	23.9	13.5	9.5	10.6	9.9
Black	554,643	51,402	497,821	5,420	9.4	2.8	7.2	5.7	8.1	9.3	9.2	10.4	13.5	14.0

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

¹ Includes origin not stated.

² Includes races other than white and black.

NOTES: Excludes data for California and South Dakota, which did not require reporting of tobacco use during pregnancy. Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

Table 31. Number of live births, percent of mothers who smoked cigarettes during pregnancy, and percent distribution of average number of cigarettes smoked by mothers per day, according to educational attainment and race and Hispanic origin of mother: Total of 48 reporting States, and the District of Columbia, 1999

Smoking measure, and race and Hispanic origin of mother	Total	Years of school completed by mother					
		0-8 years	9-11 years	12 years	13-15 years	16 years or more	Not Stated
All births							
All races ¹	3,430,385	159,931	529,765	1,101,150	753,833	829,961	55,745
White, total	2,702,289	138,200	377,250	836,155	595,963	715,892	38,829
White, non-Hispanic	2,165,609	38,719	238,431	681,211	521,578	665,337	20,333
Black, total	570,478	14,939	133,217	220,026	127,366	62,963	11,967
Black, non-Hispanic	554,643	13,681	129,633	214,581	124,396	61,414	10,938
Hispanic ²	514,796	100,476	138,635	150,518	70,078	41,281	13,808
Percent							
Smoker	12.6	11.0	25.6	16.7	9.4	2.1	12.3
White, total	13.6	11.2	29.2	19.1	10.4	2.2	12.9
White, non-Hispanic	15.9	34.0	42.4	22.4	11.3	2.3	18.9
Black, total	9.3	10.9	16.5	8.9	5.5	1.9	12.5
Black, non-Hispanic	9.4	11.4	16.7	9.0	5.5	1.9	12.6
Hispanic ²	3.7	2.2	5.8	3.9	3.1	1.1	3.3
Percent distribution ³							
All races ¹							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	70.1	64.7	70.0	69.3	71.8	76.2	73.1
11-20 cigarettes	26.5	29.6	26.3	27.3	25.3	21.5	23.6
21 cigarettes or more	3.5	5.7	3.7	3.3	2.9	2.3	3.3
White, total							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	67.7	62.4	66.8	67.1	70.2	75.3	69.5
11-20 cigarettes	28.5	31.5	29.1	29.3	26.7	22.2	26.5
21 cigarettes or more	3.7	6.2	4.2	3.6	3.1	2.5	3.9
White, non-Hispanic							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	66.8	58.6	65.4	66.6	69.8	75.0	67.9
11-20 cigarettes	29.3	34.5	30.3	29.8	27.1	22.5	28.0
21 cigarettes or more	3.9	6.9	4.3	3.6	3.2	2.5	4.1
Black, total							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	84.1	82.0	83.9	84.5	83.9	84.8	83.4
11-20 cigarettes	14.2	15.3	14.2	14.0	14.6	14.2	14.8
21 cigarettes or more	1.7	2.7	2.0	1.5	1.5	*	1.8
Black, non-Hispanic							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	84.0	82.3	83.8	84.5	83.9	84.9	83.3
11-20 cigarettes	14.3	15.0	14.2	14.1	14.7	14.1	14.9
21 cigarettes or more	1.7	2.7	2.0	1.4	1.5	*	*
Hispanic ²							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	84.3	84.8	85.0	83.9	82.5	84.6	83.8
11-20 cigarettes	14.0	13.1	13.3	14.5	16.4	14.1	14.0
21 cigarettes or more	1.6	2.1	1.7	1.6	1.1	*	*

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

¹ Includes races other than white and black and origin not stated.² Includes all persons of Hispanic origin of any race.³ Excludes data for Indiana and New York State (but includes New York City) which did not report average number of cigarettes smoked per day in standard categories.

NOTE: Excludes data for California and South Dakota, which did not require reporting of tobacco use during pregnancy.

Table 32. Percent low birthweight by smoking status, age, and race and Hispanic origin of mother: Total of 48 reporting States, and the District of Columbia, 1999

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

Smoking status and race of mother	All ages	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 ¹										
Total	7.8	13.4	9.9	10.8	9.5	7.8	6.9	7.1	8.6	10.6
Smoker	12.1	15.7	11.6	12.4	11.3	10.6	11.5	13.2	16.7	19.3
Nonsmoker	7.2	13.2	9.6	10.5	9.0	7.3	6.3	6.6	7.7	9.7
Not stated	9.5	*	10.9	11.2	10.8	8.9	8.9	9.1	10.5	15.0
White, total										
Total	6.7	11.5	8.4	9.2	8.1	6.6	6.0	6.3	7.5	9.4
Smoker	10.8	15.1	10.9	11.6	10.6	9.8	10.2	11.4	14.4	16.4
Nonsmoker	6.1	11.1	7.7	8.5	7.2	5.8	5.4	5.8	6.7	8.6
Not stated	8.5	*	10.0	10.5	9.8	7.8	7.9	8.3	9.4	13.3
White, non-Hispanic										
Total	6.7	11.6	8.5	9.3	8.2	6.7	6.0	6.3	7.4	9.3
Smoker	10.8	15.7	10.8	11.6	10.5	9.8	10.2	11.2	14.3	16.3
Nonsmoker	5.9	10.5	7.5	8.3	7.1	5.7	5.4	5.7	6.6	8.5
Not stated	8.7	*	10.3	11.1	9.9	8.0	8.2	8.4	9.4	12.8
Black, total										
Total	13.2	15.5	13.8	14.3	13.5	12.3	12.3	13.6	16.1	18.3
Smoker	21.0	19.4	17.3	18.0	17.0	16.7	21.5	25.0	29.2	32.8
Nonsmoker	12.4	15.4	13.5	14.1	13.1	11.8	11.3	12.3	14.0	15.9
Not stated	16.4	*	15.1	13.9	15.8	14.6	16.4	17.6	21.8	24.2
Black, non-Hispanic										
Total	13.3	15.6	13.9	14.3	13.6	12.4	12.5	13.8	16.3	18.4
Smoker	21.1	19.4	17.4	18.0	17.1	16.7	21.6	25.1	29.4	32.9
Nonsmoker	12.5	15.4	13.6	14.1	13.3	11.9	11.5	12.4	14.2	15.9
Not stated	16.5	*	15.3	14.2	15.8	14.5	16.5	18.0	22.4	25.2
Hispanic ²										
Total	6.8	11.5	8.3	9.1	7.8	6.4	5.9	6.6	8.1	10.1
Smoker	11.8	*	11.7	12.2	11.4	10.6	10.8	13.8	15.4	17.3
Nonsmoker	6.6	11.4	8.1	8.9	7.5	6.2	5.7	6.3	7.7	9.6
Not stated	8.3	*	9.5	9.4	9.5	7.7	7.4	7.8	9.8	15.4

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

¹ Includes races other than white and black and origin not stated.² Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California and South Dakota, which did not require reporting of tobacco use during pregnancy.

Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 1999

Age and race and Hispanic origin of mother	All births	Month of pregnancy prenatal care began									Percent	
		1st trimester			2d trimester		Late or no care			Not stated	1st trimester	Late or no care
		Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care				
All races ¹	3,959,417	3,198,714	2,478,491	720,223	499,928	146,449	102,202	44,247	114,326	83.2	3.8	
Under 15 years	9,054	4,098	2,521	1,577	3,177	1,375	976	399	404	47.4	15.9	
15-19 years	476,050	317,423	215,687	101,736	110,496	32,445	23,289	9,156	15,686	69.0	7.0	
15 years	22,896	12,503	7,799	4,704	7,032	2,461	1,759	702	900	56.8	11.2	
16 years	51,516	30,843	19,875	10,968	14,376	4,448	3,169	1,279	1,849	62.1	9.0	
17 years	89,176	57,875	38,403	19,472	21,866	6,463	4,619	1,844	2,972	67.1	7.5	
18 years	133,988	90,749	62,010	28,739	30,318	8,663	6,296	2,367	4,258	70.0	6.7	
19 years	178,474	125,453	87,600	37,853	36,904	10,410	7,446	2,964	5,707	72.6	6.0	
20-24 years	981,929	742,928	548,641	194,287	161,807	47,135	33,674	13,461	30,059	78.0	5.0	
25-29 years	1,078,252	908,407	720,738	187,669	110,020	31,244	21,795	9,449	28,581	86.5	3.0	
30-34 years	892,400	778,770	632,449	146,321	69,471	20,316	13,580	6,736	23,843	89.7	2.3	
35-39 years	434,294	374,640	301,515	73,125	35,940	11,121	7,093	4,028	12,593	88.8	2.6	
40 years and over	87,438	72,448	56,940	15,508	9,017	2,813	1,795	1,018	3,160	86.0	3.3	
White, total	3,132,501	2,597,095	2,030,014	567,081	357,303	98,770	71,262	27,508	79,333	85.1	3.2	
Under 15 years	4,739	2,344	1,455	889	1,536	667	460	207	192	51.6	14.7	
15-19 years	337,888	233,139	159,480	73,659	73,720	21,031	15,441	5,590	9,998	71.1	6.4	
15 years	14,193	8,272	5,185	3,087	4,019	1,424	1,039	385	478	60.3	10.4	
16 years	34,649	21,755	14,094	7,661	8,973	2,795	2,007	788	1,126	64.9	8.3	
17 years	62,782	42,287	28,317	13,970	14,430	4,202	3,047	1,155	1,863	69.4	6.9	
18 years	96,254	67,188	46,292	20,896	20,638	5,716	4,229	1,487	2,712	71.8	6.1	
19 years	130,010	93,637	65,592	28,045	25,660	6,894	5,119	1,775	3,819	74.2	5.5	
20-24 years	748,371	580,102	430,422	149,680	115,368	32,191	23,737	8,454	20,710	79.7	4.4	
25-29 years	873,654	750,495	599,261	151,234	81,289	21,750	15,704	6,046	20,120	87.9	2.5	
30-34 years	739,948	657,232	537,432	119,800	51,878	13,757	9,578	4,179	17,081	90.9	1.9	
35-39 years	356,959	313,736	254,356	59,380	26,792	7,471	5,054	2,417	8,960	90.2	2.1	
40 years and over	70,942	60,047	47,608	12,439	6,720	1,903	1,288	615	2,272	87.4	2.8	
White, non-Hispanic	2,346,450	2,030,575	1,618,301	412,274	214,732	52,435	37,826	14,609	48,708	88.4	2.3	
Under 15 years	2,048	1,048	647	401	650	287	207	80	63	52.8	14.5	
15-19 years	212,923	155,365	107,232	48,133	42,109	10,380	7,787	2,593	5,069	74.7	5.0	
15 years	6,963	4,226	2,681	1,545	1,867	661	499	162	209	62.6	9.8	
16 years	18,886	12,524	8,132	4,392	4,559	1,295	953	342	508	68.1	7.0	
17 years	37,671	26,935	18,050	8,885	7,934	1,936	1,438	498	866	73.2	5.3	
18 years	62,282	45,777	31,848	13,929	12,139	2,955	2,225	730	1,411	75.2	4.9	
19 years	87,121	65,903	46,521	19,382	15,610	3,533	2,672	861	2,075	77.5	4.2	
20-24 years	514,386	418,400	315,581	102,819	68,207	16,197	12,145	4,052	11,582	83.2	3.2	
25-29 years	663,569	591,763	481,682	110,081	48,003	11,396	8,160	3,236	12,407	90.9	1.8	
30-34 years	600,830	548,259	454,830	93,429	32,887	8,093	5,556	2,537	11,591	93.0	1.4	
35-39 years	294,590	265,223	217,717	47,506	18,220	4,820	3,151	1,669	6,327	92.0	1.7	
40 years and over	58,104	50,517	40,612	9,905	4,656	1,262	820	442	1,669	89.5	2.2	
Black, total	605,970	429,639	317,995	111,644	111,678	38,493	23,943	14,550	26,160	74.1	6.6	
Under 15 years	3,977	1,627	999	628	1,515	645	467	178	190	43.0	17.0	
15-19 years	121,166	74,359	49,905	24,454	31,877	9,913	6,666	3,247	5,017	64.0	8.5	
15 years	7,865	3,838	2,376	1,462	2,713	932	639	293	382	51.3	12.5	
16 years	14,942	8,097	5,176	2,921	4,744	1,440	995	445	661	56.7	10.1	
17 years	23,112	13,756	8,971	4,785	6,412	1,962	1,340	622	982	62.2	8.9	
18 years	32,948	20,756	13,942	6,814	8,343	2,518	1,731	787	1,331	65.6	8.0	
19 years	42,299	27,912	19,440	8,472	9,665	3,061	1,961	1,100	1,661	68.7	7.5	
20-24 years	193,211	134,743	98,269	36,474	38,446	12,434	8,020	4,414	7,588	72.6	6.7	
25-29 years	138,868	105,399	81,116	24,283	20,436	7,144	4,305	2,839	5,889	79.3	5.4	
30-34 years	91,486	70,654	54,884	15,770	11,528	4,876	2,717	2,159	4,428	81.2	5.6	
35-39 years	47,277	35,731	27,450	8,281	6,300	2,793	1,422	1,371	2,453	79.7	6.2	
40 years and over	9,985	7,126	5,372	1,754	1,576	688	346	342	595	75.9	7.3	

See footnotes at end of table.

Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 1999 --Con.

Age and race and Hispanic origin of mother	All births	Month of pregnancy prenatal care began									Percent	
		1st trimester			2d trimester		Late or no care			Not stated	1st trimester	Late or no care
		Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care				
Black, non-Hispanic	588,981	418,140	309,771	108,369	108,654	37,280	23,105	14,175	24,907	74.1	6.6	
Under 15 years	3,890	1,593	981	612	1,484	627	455	172	186	43.0	16.9	
15-19 years	118,285	72,658	48,777	23,881	31,177	9,636	6,487	3,149	4,814	64.0	8.5	
15 years	7,698	3,754	2,322	1,432	2,664	912	626	286	368	51.2	12.4	
16 years	14,573	7,895	5,048	2,847	4,634	1,409	981	428	635	56.6	10.1	
17 years	22,580	13,454	8,773	4,681	6,272	1,912	1,306	606	942	62.2	8.8	
18 years	32,155	20,262	13,626	6,636	8,172	2,444	1,683	761	1,277	65.6	7.9	
19 years	41,279	27,293	19,008	8,285	9,435	2,959	1,891	1,068	1,592	68.8	7.5	
20-24 years	188,247	131,431	95,964	35,467	37,499	12,062	7,758	4,304	7,255	72.6	6.7	
25-29 years	134,784	102,488	78,942	23,546	19,806	6,879	4,119	2,760	5,611	79.3	5.3	
30-34 years	88,403	68,454	53,278	15,176	11,080	4,697	2,588	2,109	4,172	81.3	5.6	
35-39 years	45,746	34,640	26,635	8,005	6,082	2,711	1,369	1,342	2,313	79.8	6.2	
40 years and over	9,626	6,876	5,194	1,682	1,526	668	329	339	556	75.8	7.4	
Hispanic ²	764,339	548,580	396,758	151,822	142,091	46,232	33,598	12,634	27,436	74.4	6.3	
Under 15 years	2,725	1,308	813	495	905	387	260	127	125	50.3	14.9	
15-19 years	124,677	77,605	52,179	25,426	31,721	10,689	7,705	2,984	4,662	64.7	8.9	
15 years	7,288	4,079	2,527	1,552	2,175	774	551	223	260	58.0	11.0	
16 years	15,828	9,271	5,981	3,290	4,449	1,504	1,054	450	604	60.9	9.9	
17 years	25,113	15,359	10,284	5,075	6,529	2,282	1,624	658	943	63.5	9.4	
18 years	33,806	21,310	14,392	6,918	8,509	2,765	2,015	750	1,222	65.4	8.5	
19 years	42,642	27,586	18,995	8,591	10,059	3,364	2,461	903	1,633	67.3	8.2	
20-24 years	231,475	159,829	113,319	46,510	47,064	15,996	11,655	4,341	8,586	71.7	7.2	
25-29 years	203,985	153,576	113,314	40,262	33,151	10,374	7,611	2,763	6,884	77.9	5.3	
30-34 years	131,369	102,341	76,965	25,376	18,830	5,600	4,043	1,557	4,598	80.7	4.4	
35-39 years	58,146	45,036	33,718	11,318	8,421	2,580	1,874	706	2,109	80.4	4.6	
40 years and over	11,962	8,885	6,450	2,435	1,999	606	450	156	472	77.3	5.3	

¹ Includes races other than white and black and origin not stated.² Includes all persons of Hispanic origin of any race.

Table 34. Percent of mothers beginning prenatal care in the first trimester and percent of mothers with late or no prenatal care by race and Hispanic origin of mother: United States, each State and territory, 1999

[By place of residence]

State	Percent beginning care in first trimester						Percent late ¹ or no care					
	All races ²	White		Black		Hispanic ³	All races ²	White		Black		Hispanic ³
		Total	Non-Hispanic	Total	Non-Hispanic			Total	Non-Hispanic	Total	Non-Hispanic	
United States ⁴	83.2	85.1	88.4	74.1	74.1	74.4	3.8	3.2	2.3	6.6	6.6	6.3
Alabama	83.2	88.9	90.0	71.4	71.4	60.5	3.7	2.4	2.0	6.3	6.3	13.9
Alaska	79.4	82.2	82.2	83.6	83.7	79.6	4.8	3.9	4.1	*	*	*
Arizona	75.9	76.6	86.1	74.5	74.3	65.0	7.0	6.8	3.0	6.7	6.7	11.4
Arkansas	79.0	81.7	83.1	69.4	69.4	63.5	4.8	3.8	3.3	8.3	8.3	11.3
California	83.6	83.6	89.2	81.0	81.1	79.7	3.2	3.2	2.0	3.9	3.9	4.0
Colorado	81.7	82.0	88.4	75.4	75.2	66.0	4.3	4.2	2.4	6.4	6.5	8.8
Connecticut	89.3	90.6	93.1	81.0	81.5	78.3	2.0	1.8	1.4	3.7	3.7	3.8
Delaware	83.7	86.4	88.2	75.5	75.5	71.8	3.6	2.9	2.5	5.9	5.8	6.0
District of Columbia	71.9	82.7	90.9	67.1	67.0	64.2	9.3	5.5	2.7	11.1	11.1	11.8
Florida	83.9	87.1	89.1	73.6	73.6	81.3	3.4	2.6	2.1	6.0	6.0	4.2
Georgia	87.3	90.4	91.9	81.1	81.0	79.7	2.5	1.8	1.3	3.9	3.9	5.4
Hawaii	85.7	91.0	91.7	91.2	90.7	83.8	2.9	2.1	1.9	*	*	3.2
Idaho	80.5	80.7	82.9	73.7	73.6	64.8	3.9	3.8	3.1	*	*	8.6
Illinois	82.5	85.4	89.9	70.0	69.9	72.4	4.1	3.0	2.1	8.7	8.7	5.9
Indiana	80.6	82.2	83.3	67.3	67.2	64.4	3.7	3.3	2.9	7.3	7.3	9.1
Iowa	87.7	88.3	89.1	74.8	75.2	71.2	2.2	2.1	1.9	5.1	5.2	6.5
Kansas	85.8	86.7	89.2	76.9	77.0	68.1	2.9	2.7	1.9	4.7	4.8	8.2
Kentucky	86.6	87.4	87.7	78.3	78.3	71.2	2.6	2.4	2.3	4.9	5.0	9.1
Louisiana	82.9	89.7	89.8	73.2	73.2	85.6	3.7	1.9	1.8	6.3	6.3	2.7
Maine	89.2	89.5	89.7	83.0	81.4	84.4	1.8	1.7	1.7	*	*	*
Maryland	87.0	91.4	92.4	78.0	78.0	81.4	3.1	1.9	1.6	5.7	5.7	4.3
Massachusetts	89.4	90.8	92.2	80.0	80.3	79.0	2.4	2.0	1.7	5.4	5.2	4.7
Michigan	84.0	87.0	88.5	69.9	69.9	72.0	3.6	2.6	2.2	8.2	8.1	6.4
Minnesota	84.5	87.0	88.1	66.4	66.2	62.1	2.7	2.2	1.9	6.7	6.6	7.7
Mississippi	81.5	89.1	89.3	72.7	72.7	74.5	3.6	1.7	1.6	5.9	5.9	6.3
Missouri	87.1	89.0	89.5	76.4	76.3	77.5	2.7	2.2	2.0	5.9	5.9	5.4
Montana	83.8	85.8	86.1	85.7	87.5	76.4	3.0	2.3	2.1	*	*	6.6
Nebraska	84.4	85.4	87.4	73.8	73.9	68.8	2.9	2.5	2.0	6.9	6.8	7.1
Nevada	75.2	75.5	83.2	69.6	69.8	62.0	6.7	6.7	4.0	8.1	7.9	11.4
New Hampshire	90.7	91.0	91.4	72.9	70.9	80.6	1.5	1.4	1.3	*	*	*
New Jersey	81.3	85.1	89.7	64.8	64.6	69.9	4.7	3.3	2.1	10.8	10.9	7.3
New Mexico	66.8	68.1	73.6	62.6	61.8	64.4	10.0	9.5	7.6	10.4	11.1	10.8
New York	81.0	84.2	88.1	71.0	71.2	71.8	5.1	3.9	2.9	8.7	8.8	7.3
North Carolina	85.0	88.4	91.1	76.1	76.0	68.7	3.0	2.2	1.5	5.3	5.3	7.3
North Dakota	86.3	88.3	88.6	72.1	72.6	81.7	2.0	1.3	1.2	*	*	*
Ohio	86.6	88.4	88.6	76.3	76.6	77.9	3.5	2.7	2.6	8.2	7.9	5.3
Oklahoma	80.5	82.6	83.8	73.1	73.2	68.7	4.2	3.5	3.2	6.0	5.9	6.8
Oregon	80.9	81.2	83.8	76.0	76.1	68.6	3.7	3.6	3.0	3.4	3.3	6.6
Pennsylvania	85.2	87.6	88.5	71.6	71.6	73.9	3.3	2.6	2.4	8.0	8.0	5.6
Rhode Island	91.3	92.4	93.6	83.2	83.7	86.1	1.4	1.1	0.9	3.4	2.8	2.5
South Carolina	80.7	85.9	87.2	70.9	70.9	61.1	4.7	3.1	2.6	7.7	7.7	11.7
South Dakota	83.4	87.0	87.4	74.2	73.9	68.5	3.1	1.8	1.7	*	*	*
Tennessee	84.3	87.0	87.9	74.6	74.6	64.0	3.5	2.5	2.1	7.1	7.1	12.4
Texas	79.3	79.3	87.3	76.7	76.7	72.2	5.5	5.4	2.8	6.2	6.2	7.9
Utah	80.5	81.5	84.0	63.7	62.4	63.0	4.4	4.1	3.3	9.8	10.3	9.3
Vermont	87.9	88.0	88.0	81.6	84.8	80.6	2.5	2.4	2.4	*	*	*
Virginia	85.3	88.6	90.2	74.5	74.5	74.0	3.2	2.3	1.9	6.0	6.0	6.2
Washington	82.8	83.6	86.0	75.7	75.5	71.1	3.1	2.9	2.4	4.4	4.3	5.6
West Virginia	85.1	85.6	85.7	70.7	70.8	68.8	2.4	2.4	2.4	4.3	4.3	*
Wisconsin	84.1	86.6	87.7	69.1	69.1	70.6	3.3	2.5	2.2	8.6	8.6	7.4
Wyoming	83.0	83.4	84.3	76.4	76.8	74.8	3.7	3.6	3.3	*	*	6.3
Puerto Rico	77.7	78.5	---	69.0	---	---	3.7	3.5	---	5.4	---	---
Virgin Islands	59.6	63.1	73.5	58.2	59.0	57.5	11.7	9.0	*	12.4	12.2	8.7
Guam	61.8	86.5	87.8	77.6	79.2	73.3	14.0	*	*	*	*	*
American Samoa	---	---	---	---	---	---	---	---	---	---	---	---
Northern Marianas	30.2	*	---	*	---	---	25.7	*	---	*	---	---

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

--- Data not available.

1 Care beginning in 3rd trimester.

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

3 Includes all persons of Hispanic origin of any race.

4 Excludes data for the territories.

NOTE: Data on prenatal care are not available for American Samoa. Data on month prenatal care began for the Northern Marianas are substantially incomplete; see Table I in the Technical notes.

Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 1999

Number of prenatal visits and race and Hispanic origin of mother	All births	Month of pregnancy prenatal care began							Not stated
		1st trimester			2d trimester		Late or no care		
		Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	
All races ¹	3,959,417	3,198,714	2,478,491	720,223	499,928	146,449	102,202	44,247	114,326
No visits	44,247	...	...	...	...	44,247	...	44,247	...
1-2 visits	39,675	9,921	6,689	3,232	9,343	18,469	18,469	...	1,942
3-4 visits	81,104	23,723	13,755	9,968	28,884	25,807	25,807	...	2,690
5-6 visits	172,584	73,357	43,087	30,270	69,951	25,495	25,495	...	3,781
7-8 visits	317,189	191,117	118,244	72,873	106,027	14,975	14,975	...	5,070
9-10 visits	745,368	589,430	398,952	190,478	138,821	8,435	8,435	...	8,682
11-12 visits	1,024,418	935,203	726,827	208,376	79,565	3,435	3,435	...	6,215
13-14 visits	657,157	623,916	520,336	103,580	28,675	1,395	1,395	...	3,171
15-16 visits	474,820	452,829	393,370	59,459	18,742	1,001	1,001	...	2,248
17-18 visits	103,130	98,949	85,839	13,110	3,428	203	203	...	550
19 visits or more	146,593	139,332	123,321	16,011	5,872	461	461	...	928
Not stated	153,132	60,937	48,071	12,866	10,620	2,526	2,526	...	79,049
Median number of visits	12.3	12.6	12.8	11.6	9.6	5.4	5.4	...	10.3
White, total	3,132,501	2,597,095	2,030,014	567,081	357,303	98,770	71,262	27,508	79,333
No visits	27,508	...	...	...	...	27,508	...	27,508	...
1-2 visits	25,067	6,381	4,332	2,049	5,403	12,137	12,137	...	1,146
3-4 visits	53,202	15,775	9,199	6,576	18,194	17,513	17,513	...	1,720
5-6 visits	120,541	52,425	30,736	21,689	47,541	18,026	18,026	...	2,549
7-8 visits	238,264	148,071	92,464	55,607	75,704	10,848	10,848	...	3,641
9-10 visits	582,074	468,547	320,114	148,433	101,076	6,133	6,133	...	6,318
11-12 visits	838,448	771,527	603,619	167,908	59,551	2,573	2,573	...	4,797
13-14 visits	547,578	522,041	436,894	85,147	21,990	1,075	1,075	...	2,472
15-16 visits	388,062	371,505	323,812	47,693	14,029	788	788	...	1,740
17-18 visits	85,252	82,014	71,521	10,493	2,633	153	153	...	452
19 visits or more	118,521	113,330	101,140	12,190	4,138	354	354	...	699
Not stated	107,984	45,479	36,183	9,296	7,044	1,662	1,662	...	53,799
Median number of visits	12.4	12.7	12.9	11.7	9.8	5.6	5.6	...	10.4
White, non-Hispanic	2,346,450	2,030,575	1,618,301	412,274	214,732	52,435	37,826	14,609	48,708
No visits	14,609	...	...	...	...	14,609	...	14,609	...
1-2 visits	13,307	3,687	2,576	1,111	2,795	6,184	6,184	...	641
3-4 visits	29,001	9,446	5,729	3,717	9,716	8,852	8,852	...	987
5-6 visits	72,455	34,980	21,352	13,628	26,592	9,351	9,351	...	1,532
7-8 visits	159,717	107,017	68,775	38,242	44,513	5,921	5,921	...	2,266
9-10 visits	416,996	348,502	244,266	104,236	60,700	3,486	3,486	...	4,308
11-12 visits	664,465	620,066	492,401	127,665	39,171	1,677	1,677	...	3,551
13-14 visits	443,357	425,567	359,099	66,468	15,174	680	680	...	1,936
15-16 visits	302,852	292,770	258,074	34,696	8,246	500	500	...	1,336
17-18 visits	68,686	66,412	58,256	8,156	1,809	104	104	...	361
19 visits or more	96,222	92,758	83,544	9,214	2,706	256	256	...	502
Not stated	64,783	29,370	24,229	5,141	3,310	815	815	...	31,288
Median number of visits	12.5	12.7	12.9	11.9	10.0	5.7	5.7	...	10.7
Black, total	605,970	429,639	317,995	111,644	111,678	38,493	23,943	14,550	26,160
No visits	14,550	...	...	...	...	14,550	...	14,550	...
1-2 visits	11,947	2,931	1,951	980	3,302	5,040	5,040	...	674
3-4 visits	22,230	6,386	3,673	2,713	8,584	6,508	6,508	...	752
5-6 visits	40,073	15,854	9,447	6,407	17,536	5,739	5,739	...	944
7-8 visits	57,558	30,183	18,050	12,133	23,209	3,096	3,096	...	1,070
9-10 visits	119,593	86,624	56,079	30,545	29,478	1,746	1,746	...	1,745
11-12 visits	128,219	111,403	82,693	28,710	15,255	611	611	...	950
13-14 visits	76,811	70,916	57,808	13,108	5,208	221	221	...	466
15-16 visits	64,126	59,695	50,807	8,888	3,895	156	156	...	380
17-18 visits	13,065	12,307	10,295	2,012	645	35	35	...	78
19 visits or more	22,298	20,552	17,393	3,159	1,487	84	84	...	175
Not stated	35,500	12,788	9,799	2,989	3,079	707	707	...	18,926
Median number of visits	11.7	12.5	12.7	11.2	9.2	5.0	5.0	...	9.4

See footnotes at end of table.

Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 1999 --Con.

Number of prenatal visits and race and Hispanic origin of mother	All births	Month of pregnancy prenatal care began							Not stated
		1st trimester			2d trimester		Late or no care		
		Total	1st and 2d months	3d month	4th-6th months	Total	7th-9th months	No care	
Black, non-Hispanic	588,981	418,140	309,771	108,369	108,654	37,280	23,105	14,175	24,907
No visits	14,175	...	...	...	...	14,175	...	14,175	...
1-2 visits	11,654	2,866	1,910	956	3,231	4,903	4,903	...	654
3-4 visits	21,608	6,235	3,590	2,645	8,376	6,287	6,287	...	710
5-6 visits	38,969	15,442	9,228	6,214	17,095	5,530	5,530	...	902
7-8 visits	55,803	29,276	17,523	11,753	22,547	2,971	2,971	...	1,009
9-10 visits	115,543	83,585	54,071	29,514	28,656	1,676	1,676	...	1,626
11-12 visits	124,630	108,364	80,462	27,902	14,802	583	583	...	881
13-14 visits	74,901	69,204	56,483	12,721	5,040	215	215	...	442
15-16 visits	62,880	58,538	49,840	8,698	3,820	154	154	...	368
17-18 visits	12,773	12,036	10,077	1,959	627	33	33	...	77
19 visits or more	21,830	20,124	17,031	3,093	1,456	84	84	...	166
Not stated	34,215	12,470	9,556	2,914	3,004	669	669	...	18,072
Median number of visits	11.8	12.5	12.7	11.2	9.2	5.0	5.0	...	9.3
Hispanic ²	764,339	548,580	396,758	151,822	142,091	46,232	33,598	12,634	27,436
No visits	12,634	...	...	...	...	12,634	...	12,634	...
1-2 visits	11,792	2,679	1,747	932	2,633	5,990	5,990	...	490
3-4 visits	24,332	6,319	3,467	2,852	8,545	8,739	8,739	...	729
5-6 visits	48,058	17,303	9,269	8,034	21,048	8,723	8,723	...	984
7-8 visits	77,792	40,432	23,274	17,158	31,079	4,939	4,939	...	1,342
9-10 visits	162,407	117,556	73,837	43,719	40,200	2,657	2,657	...	1,994
11-12 visits	167,443	145,168	106,051	39,117	20,184	908	908	...	1,183
13-14 visits	100,019	92,387	74,350	18,037	6,729	393	393	...	510
15-16 visits	82,714	76,312	63,598	12,714	5,737	287	287	...	378
17-18 visits	15,984	15,022	12,751	2,271	825	50	50	...	87
19 visits or more	21,588	19,894	16,968	2,926	1,419	96	96	...	179
Not stated	39,576	15,508	11,446	4,062	3,692	816	816	...	19,560
Median number of visits	11.6	12.4	12.7	11.1	9.4	5.4	5.4	...	9.7

... Category not applicable.

¹ Includes races other than white and black and origin not stated.² Includes all persons of Hispanic origin of any race.

Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 1999

[Rates are number of live births with specified procedure per 1,000 live births in specified group]

Obstetric procedure and race of mother	All births	Obstetric procedure reported	Age of mother							Not stated ¹
			All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	
All races ²										
Amniocentesis	3,959,417	103,874	26.5	6.8	8.6	11.6	21.8	109.7	156.0	42,734
Electronic fetal monitoring	3,959,417	3,296,037	841.5	851.9	846.7	844.2	837.2	826.4	813.4	42,734
Induction of labor	3,959,417	775,245	197.9	182.7	195.2	206.0	201.4	194.9	192.7	42,734
Stimulation of labor	3,959,417	702,784	179.4	192.9	184.4	182.2	175.2	161.0	149.9	42,734
Tocolysis	3,959,417	92,342	23.6	25.4	24.2	23.4	22.8	22.4	22.7	42,734
Ultrasound	3,959,417	2,579,276	658.5	630.4	646.7	665.0	672.4	671.0	664.8	42,734
White										
Amniocentesis	3,132,501	87,511	28.2	6.9	8.8	11.7	22.4	114.6	166.2	33,113
Electronic fetal monitoring	3,132,501	2,614,055	843.4	853.3	847.6	846.8	840.2	829.1	815.0	33,113
Induction of labor	3,132,501	648,095	209.1	194.6	207.5	217.2	211.1	203.9	200.8	33,113
Stimulation of labor	3,132,501	566,588	182.8	200.5	189.5	184.9	177.6	163.4	153.1	33,113
Tocolysis	3,132,501	73,884	23.8	26.5	24.7	23.6	23.0	22.4	22.0	33,113
Ultrasound	3,132,501	2,081,638	671.6	648.0	660.9	676.6	682.6	681.2	676.4	33,113
Black										
Amniocentesis	605,970	9,296	15.5	6.3	7.8	11.2	17.0	64.7	89.4	4,468
Electronic fetal monitoring	605,970	508,057	844.6	853.7	850.0	842.7	834.6	828.6	823.0	4,468
Induction of labor	605,970	95,500	158.8	154.5	156.9	162.7	160.6	161.4	164.2	4,468
Stimulation of labor	605,970	97,708	162.4	175.5	167.4	160.5	151.1	141.5	134.0	4,468
Tocolysis	605,970	13,477	22.4	21.6	21.8	22.7	23.2	23.8	26.6	4,468
Ultrasound	605,970	362,419	602.5	586.9	599.9	610.3	612.3	611.9	607.9	4,468

¹ No response reported for the obstetric procedures item.² Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on the birth certificate. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 37. Live births to mothers with selected complications of labor and/or delivery and rates by age of mother, by race of mother: United States, 1999

[Rates are number of live births with specified complication per 1,000 live births in specified group]

Complication and race of mother	All births ¹	Complication reported	Age of mother							Not stated ²
			All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	
All races ³										
Febrile	3,959,417	59,904	15.3	18.5	15.6	15.9	14.5	12.3	11.1	52,046
Meconium, moderate/heavy	3,959,417	213,698	54.7	59.7	55.2	53.5	52.5	55.1	55.5	52,046
Premature rupture of membrane	3,959,417	100,130	25.6	26.7	24.3	25.1	25.8	27.3	30.9	52,046
Abruptio placenta	3,959,417	21,999	5.6	5.4	5.2	5.3	5.8	7.0	8.6	52,046
Placenta previa	3,959,417	12,492	3.2	1.1	1.7	2.8	4.3	6.5	8.9	52,046
Other excessive bleeding	3,959,417	21,930	5.6	5.2	5.2	5.5	5.8	6.4	8.2	52,046
Seizures during labor	3,959,417	1,331	0.3	0.7	0.4	0.3	0.2	0.3	0.3	52,046
Precipitous labor	3,959,417	77,848	19.9	14.3	18.9	19.8	22.1	23.6	23.3	52,046
Prolonged labor	3,959,417	30,683	7.9	8.4	8.0	7.8	7.8	7.3	7.9	52,046
Dysfunctional labor	3,959,417	105,795	27.1	26.5	25.5	27.4	27.7	28.2	31.2	52,046
Breech/Malpresentation	3,959,417	152,084	38.9	29.2	31.5	39.1	44.7	50.4	58.1	52,046
Cephalopelvic disproportion	3,959,417	71,604	18.3	17.4	16.7	19.2	19.2	18.6	20.6	52,046
Cord prolapse	3,959,417	7,773	2.0	1.6	1.8	1.9	2.1	2.5	2.8	52,046
Anesthetic complication ⁴	3,610,172	2,299	0.6	0.4	0.5	0.7	0.7	0.8	0.9	54,515
Fetal distress ⁴	3,610,172	140,756	39.6	43.7	38.5	38.0	38.6	41.7	49.7	54,515
White										
Febrile	3,132,501	45,210	14.6	17.7	15.1	15.2	13.8	11.7	10.9	40,717
Meconium, moderate/heavy	3,132,501	156,049	50.5	53.5	50.6	49.7	49.1	51.7	52.3	40,717
Premature rupture of membrane	3,132,501	75,850	24.5	24.8	23.0	24.1	25.0	26.3	30.6	40,717
Abruptio placenta	3,132,501	16,703	5.4	5.0	4.9	5.1	5.6	6.7	8.2	40,717
Placenta previa	3,132,501	9,651	3.1	1.1	1.7	2.7	4.1	6.2	8.3	40,717
Other excessive bleeding	3,132,501	17,533	5.7	5.5	5.4	5.5	5.7	6.3	7.8	40,717
Seizures during labor	3,132,501	951	0.3	0.6	0.3	0.2	0.2	0.2	0.3	40,717
Precipitous labor	3,132,501	60,427	19.5	13.2	18.1	19.3	21.9	23.8	23.0	40,717
Prolonged labor	3,132,501	24,903	8.1	8.8	8.3	8.0	7.9	7.4	8.3	40,717
Dysfunctional labor	3,132,501	84,394	27.3	26.8	25.7	27.8	27.7	28.1	31.3	40,717
Breech/Malpresentation	3,132,501	126,242	40.8	31.7	33.2	40.9	45.8	51.4	59.1	40,717
Cephalopelvic disproportion	3,132,501	58,220	18.8	17.9	17.6	19.8	19.3	18.6	20.7	40,717
Cord prolapse	3,132,501	6,076	2.0	1.6	1.8	1.9	2.1	2.4	2.7	40,717
Anesthetic complication ⁴	2,834,420	1,848	0.7	0.4	0.5	0.7	0.8	0.8	0.9	42,827
Fetal distress ⁴	2,834,420	105,319	37.7	41.3	36.7	36.5	36.7	39.8	47.6	42,827
Black										
Febrile	605,970	9,786	16.3	20.5	15.9	15.8	14.6	13.0	10.6	5,735
Meconium, moderate/heavy	605,970	45,488	75.8	76.8	72.8	75.1	78.8	81.0	76.8	5,735
Premature rupture of membrane	605,970	18,460	30.8	30.6	28.3	30.4	33.7	35.1	36.1	5,735
Abruptio placenta	605,970	4,128	6.9	6.2	6.0	7.1	7.8	9.1	9.9	5,735
Placenta previa	605,970	1,861	3.1	1.1	1.9	3.3	5.2	6.8	10.8	5,735
Other excessive bleeding	605,970	2,511	4.2	3.5	3.8	4.0	4.9	5.7	8.2	5,735
Seizures during labor	605,970	303	0.5	0.9	0.5	0.4	0.3	0.4	*	5,735
Precipitous labor	605,970	12,930	21.5	16.6	21.7	22.7	24.8	23.5	24.9	5,735
Prolonged labor	605,970	3,893	6.5	6.9	6.4	6.2	6.6	6.2	6.0	5,735
Dysfunctional labor	605,970	15,292	25.5	25.3	24.3	24.9	27.2	28.8	27.9	5,735
Breech/Malpresentation	605,970	18,256	30.4	22.5	25.7	31.0	39.5	46.3	53.8	5,735
Cephalopelvic disproportion	605,970	8,644	14.4	16.2	13.2	14.3	14.6	14.5	14.1	5,735
Cord prolapse	605,970	1,307	2.2	1.7	1.9	2.1	2.6	3.6	3.7	5,735
Anesthetic complication ⁴	565,873	342	0.6	0.5	0.5	0.6	0.8	0.9	*	6,053
Fetal distress ⁴	565,873	28,085	50.2	50.7	46.2	48.8	54.1	58.5	63.0	6,053

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

¹ Total number of births to residents of areas reporting specified complication.² No response reported for the complications item.³ Includes races other than white and black.⁴ Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on the birth certificate. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 38. Live births by attendant, place of delivery, and race and Hispanic origin of mother: United States, 1999

Place of delivery and race and Hispanic origin of mother	All births	Physician			Midwife			Other	Unspecified
		Total	Doctor of medicine	Doctor of osteopathy	Total	Certified nurse midwife	Other midwife		
All races ¹									
Total	3,959,417	3,633,115	3,473,378	159,737	303,141	287,298	15,843	21,889	1,272
In hospital ²	3,923,059	3,628,084	3,469,267	158,817	282,352	278,364	3,988	11,929	694
Not in hospital	35,977	4,879	3,968	911	20,647	8,799	11,848	9,924	527
Freestanding birthing center	9,642	1,446	847	599	7,952	5,437	2,515	237	7
Clinic or doctor's office	464	274	254	20	145	44	101	43	2
Residence	23,518	2,476	2,219	257	12,123	3,064	9,059	8,524	395
Other	2,353	683	648	35	427	254	173	1,120	123
Not specified	381	152	143	9	142	135	7	36	51
White, total									
Total	3,132,501	2,875,669	2,737,954	137,715	238,595	223,986	14,609	17,348	889
In hospital ²	3,100,598	2,871,951	2,735,099	136,852	218,858	215,717	3,141	9,282	507
Not in hospital	31,583	3,589	2,733	856	19,609	8,147	11,462	8,039	346
Freestanding birthing center	9,044	1,366	772	594	7,454	5,046	2,408	217	7
Clinic or doctor's office	384	226	212	14	133	39	94	24	1
Residence	20,615	1,636	1,410	226	11,661	2,864	8,797	7,045	273
Other	1,540	361	339	22	361	198	163	753	65
Not specified	320	129	122	7	128	122	6	27	36
White, non-Hispanic									
Total	2,346,450	2,168,573	2,055,891	112,682	164,600	152,598	12,002	12,640	637
In hospital ²	2,319,638	2,165,402	2,053,556	111,846	147,859	145,531	2,328	5,976	401
Not in hospital	26,535	3,058	2,228	830	16,622	6,954	9,668	6,646	209
Freestanding birthing center	6,999	1,241	655	586	5,602	4,235	1,367	155	1
Clinic or doctor's office	339	206	192	14	118	34	84	14	1
Residence	18,161	1,369	1,153	216	10,624	2,553	8,071	5,983	185
Other	1,036	242	228	14	278	132	146	494	22
Not specified	277	113	107	6	119	113	6	18	27
Black, total									
Total	605,970	556,639	540,308	16,331	45,723	44,933	790	3,341	267
In hospital ²	602,652	555,527	539,237	16,290	45,092	44,477	615	1,903	130
Not in hospital	3,272	1,094	1,054	40	625	451	174	1,429	124
Freestanding birthing center	391	61	59	2	316	258	58	14	-
Clinic or doctor's office	24	16	14	2	8	2	6	-	-
Residence	2,239	733	708	25	259	153	106	1,169	78
Other	618	284	273	11	42	38	4	246	46
Not specified	46	18	17	1	6	5	1	9	13
Black, non-Hispanic									
Total	588,981	542,427	526,850	15,577	43,037	42,280	757	3,268	249
In hospital ²	585,821	541,350	525,812	15,538	42,474	41,866	608	1,871	126
Not in hospital	3,123	1,060	1,022	38	558	410	148	1,390	115
Freestanding birthing center	362	61	59	2	288	235	53	13	-
Clinic or doctor's office	24	16	14	2	8	2	6	-	-
Residence	2,143	706	683	23	224	139	85	1,138	75
Other	594	277	266	11	38	34	4	239	40
Not specified	37	17	16	1	5	4	1	7	8
Hispanic ³									
Total	764,339	687,152	663,212	23,940	72,838	70,449	2,389	4,181	168
In hospital ²	759,949	686,658	662,738	23,920	70,151	69,379	772	3,075	65
Not in hospital	4,368	484	464	20	2,682	1,065	1,617	1,099	103
Freestanding birthing center	2,048	122	117	5	1,857	809	1,048	63	6
Clinic or doctor's office	43	18	18	-	15	5	10	10	-
Residence	1,821	227	220	7	737	195	542	797	60
Other	456	117	109	8	73	56	17	229	37
Not specified	22	10	10	-	5	5	-	7	-

- Quantity zero.

¹ Includes races other than white and black and origin not stated.² Includes births occurring en route to or on arrival at hospital.³ Includes all persons of Hispanic origin of any race.

Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-99

Year and race and Hispanic origin of mother	Births by method of delivery						Cesarean delivery rate		Rate of vaginal birth after previous cesarean ³	
	All births	Vaginal		Cesarean			Not stated	Total ¹		Primary ²
		Total	After previous cesarean	Total	Primary	Repeat				
All races⁴										
1999	3,959,417	3,063,870	97,680	862,086	542,080	320,006	33,461	22.0	15.5	23.4
1998	3,941,553	3,078,537	108,903	825,870	519,975	305,895	37,146	21.2	14.9	26.3
1997	3,880,894	3,046,621	112,145	799,033	502,526	296,507	35,240	20.8	14.6	27.4
1996	3,891,494	3,061,092	116,045	797,119	503,724	293,395	33,283	20.7	14.6	28.3
1995	3,899,589	3,063,724	112,439	806,722	510,104	296,618	29,143	20.8	14.7	27.5
1994	3,952,767	3,087,576	110,341	830,517	520,647	309,870	34,674	21.2	14.9	26.3
1993	4,000,240	3,098,796	103,581	861,987	539,251	322,736	39,457	21.8	15.3	24.3
1992	4,065,014	3,100,710	97,549	888,622	554,662	333,960	75,682	22.3	15.6	22.6
1991	4,110,907	3,100,891	90,690	905,077	569,195	335,882	104,939	22.6	15.9	21.3
1990 ⁵	4,110,563	3,111,421	84,299	914,096	575,066	339,030	85,046	22.7	16.0	19.9
1989 ⁶	3,798,734	2,793,463	71,019	826,955	521,873	305,082	178,316	22.8	16.1	18.9
White, total										
1999	3,132,501	2,426,092	77,158	678,952	424,148	254,804	27,457	21.9	15.3	23.2
1998	3,118,727	2,440,113	86,495	649,987	406,439	243,548	28,627	21.0	14.7	26.2
1997	3,072,640	2,415,236	89,522	630,613	393,603	237,010	26,791	20.7	14.5	27.4
1996	3,093,057	2,434,079	93,783	631,409	395,851	235,558	27,569	20.6	14.5	28.5
1995	3,098,885	2,435,191	90,940	639,818	401,098	238,720	23,876	20.8	14.6	27.6
1994	3,121,004	2,435,965	88,471	656,400	407,946	248,454	28,639	21.2	14.8	26.3
1993	3,149,833	2,435,229	82,995	682,355	423,540	258,815	32,249	21.9	15.3	24.3
1992	3,201,678	2,434,959	77,977	705,841	437,398	268,443	60,878	22.5	15.7	22.5
1991	3,241,273	2,434,900	72,564	723,088	452,534	270,554	83,285	22.9	16.1	21.1
1990 ⁵	3,252,473	2,453,857	67,191	732,713	458,656	274,057	65,903	23.0	16.1	19.7
1989 ⁶	3,022,537	2,212,843	56,851	667,114	418,177	248,937	142,580	23.2	16.2	18.6
White, non-Hispanic										
1999	2,346,450	1,810,682	59,480	514,051	327,106	186,945	21,717	22.1	15.7	24.1
1998	2,361,462	1,842,420	67,787	495,550	315,138	180,412	23,492	21.2	15.1	27.3
1997	2,333,363	1,829,213	70,284	481,982	305,605	176,377	22,168	20.9	14.8	28.5
1996	2,358,989	1,851,058	73,973	485,530	308,482	177,048	22,401	20.8	14.8	29.5
1995	2,382,638	1,867,024	72,124	496,103	313,933	182,170	19,511	21.0	14.9	28.4
1994	2,438,855	1,896,609	71,597	518,021	324,236	193,785	24,225	21.5	15.1	27.0
1993	2,472,031	1,902,433	67,536	542,013	338,236	203,777	27,585	22.2	15.6	24.9
1992 ⁸	2,527,207	1,916,414	63,828	566,788	352,470	214,318	44,005	22.8	16.0	22.9
1991 ⁸	2,589,878	1,941,726	60,174	587,802	368,721	219,081	60,350	23.2	16.4	21.5
1990 ^{5,9}	2,626,500	1,972,754	55,952	603,467	378,508	224,959	50,279	23.4	16.5	19.9
1989 ^{6,10}	2,526,367	1,806,753	47,559	556,585	349,858	206,727	163,029	23.6	16.6	18.7
Black, total										
1999	605,970	462,401	15,438	139,471	88,269	51,202	4,098	23.2	16.5	23.2
1998	609,902	470,088	17,062	135,727	86,438	49,289	4,087	22.4	16.0	25.7
1997	599,913	466,001	16,986	130,142	83,025	47,117	3,770	21.8	15.6	26.5
1996	594,781	462,378	16,866	128,357	82,646	45,711	4,046	21.7	15.6	27.0
1995	603,139	468,984	16,224	130,482	84,441	46,041	3,673	21.8	15.7	26.1
1994	636,391	493,879	16,970	138,067	88,636	49,431	4,445	21.8	15.7	25.6
1993	658,875	509,816	16,179	143,452	91,677	51,775	5,607	22.0	15.7	23.8
1992	673,633	514,929	15,382	146,480	93,165	53,315	12,224	22.1	15.7	22.4
1991	682,602	519,047	14,213	145,583	92,645	52,938	17,972	21.9	15.5	21.2
1990 ⁵	679,236	516,581	13,496	146,472	93,476	52,996	16,183	22.1	15.7	20.3
1989 ⁶	611,147	452,291	11,104	127,907	82,695	45,212	30,319	22.0	15.8	19.7

See footnotes at end of table.

Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-99 --Con.

Year and race and Hispanic origin of mother	Births by method of delivery							Cesarean delivery rate		Rate of vaginal birth after previous cesarean ³
	All births	Vaginal		Cesarean			Not stated	Total ¹	Primary ²	
		Total	After previous cesarean	Total	Primary	Repeat				
Black, non-Hispanic										
1999	588,981	449,580	14,999	135,508	85,898	49,610	3,893	23.2	16.5	23.2
1998	593,127	457,186	16,510	131,999	84,169	47,830	3,942	22.4	16.0	25.7
1997	581,431	451,744	16,353	126,138	80,599	45,539	3,549	21.8	15.6	26.4
1996	578,099	449,544	16,322	124,836	80,457	44,379	3,719	21.7	15.7	26.9
1995	587,781	457,104	15,721	127,171	82,395	44,776	3,506	21.8	15.7	26.0
1994	619,198	480,551	16,478	134,526	86,411	48,115	4,121	21.9	15.7	25.5
1993	641,273	496,333	15,675	139,702	89,315	50,387	5,238	22.0	15.7	23.7
1992 ⁸	657,450	502,669	14,950	143,153	91,086	52,067	11,628	22.2	15.7	22.3
1991 ⁸	666,758	507,522	13,847	142,417	90,664	51,753	16,819	21.9	15.5	21.1
1990 ^{5,9}	661,701	503,720	13,157	142,838	91,175	51,663	15,143	22.1	15.7	20.3
1989 ^{6,10}	611,269	440,310	10,726	125,290	81,177	44,113	45,669	22.2	15.9	19.6
Hispanic⁷										
1999	764,339	599,118	16,915	161,035	94,433	66,602	4,186	21.2	14.0	20.3
1998	734,661	580,143	17,803	150,317	88,763	61,554	4,201	20.6	13.6	22.4
1997	709,767	563,114	17,942	142,907	84,410	58,497	3,746	20.2	13.4	23.5
1996	701,339	558,105	18,491	139,554	83,392	56,162	3,680	20.0	13.4	24.8
1995	679,768	539,731	17,396	136,640	82,662	53,978	3,397	20.2	13.7	24.4
1994	665,026	525,928	16,206	135,569	81,961	53,608	3,529	20.5	13.9	23.2
1993	654,418	514,493	14,586	136,279	82,576	53,703	3,646	20.9	14.2	21.4
1992 ⁸	643,271	494,338	13,111	133,369	81,211	52,158	15,564	21.2	14.4	20.1
1991 ⁸	623,085	472,126	11,615	129,752	80,228	49,524	21,207	21.6	14.8	19.0
1990 ^{5,9}	595,073	458,242	10,395	122,969	76,027	46,942	13,862	21.2	14.5	18.1
1989 ^{6,10}	532,249	385,462	8,549	105,268	64,905	40,363	41,519	21.5	14.7	17.5

¹ Percent of all live births by cesarean delivery.

² Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

³ Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

⁴ Includes races other than white and black and origin not stated.

⁵ Excludes data for Oklahoma, which did not report method of delivery on the birth certificate.

⁶ Excludes data for Louisiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.

⁷ Includes all persons of Hispanic origin of any race.

⁸ Excludes data for New Hampshire which did not report Hispanic origin.

⁹ Excludes data for New Hampshire and Oklahoma which did not report Hispanic origin.

¹⁰ Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

Table 40. Live births by method of delivery, and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by age and race and Hispanic origin of mother: United States, 1999

Age and race and Hispanic origin of mother	Births by method of delivery						Cesarean delivery rate		Rate of vaginal birth after previous cesarean ³	
	All births	Vaginal		Cesarean			Not stated	Total ¹		Primary ²
		Total	After previous cesarean	Total	Primary	Repeat				
All races ⁴	3,959,417	3,063,870	97,680	862,086	542,080	320,006	33,461	22.0	15.5	23.4
Under 20 years	485,104	408,830	3,128	72,258	64,254	8,004	4,016	15.0	13.7	28.1
20-24 years	981,929	799,209	18,945	174,252	120,238	54,014	8,468	17.9	13.4	26.0
25-29 years	1,078,252	836,383	27,891	232,492	144,759	87,733	9,377	21.8	15.2	24.1
30-34 years	892,400	660,715	29,242	224,387	126,681	97,706	7,298	25.4	16.7	23.0
35-39 years	434,294	302,099	15,703	128,610	68,532	60,078	3,585	29.9	19.3	20.7
40-54 years	87,438	56,634	2,771	30,087	17,616	12,471	717	34.7	24.6	18.2
White, total	3,132,501	2,426,092	77,158	678,952	424,148	254,804	27,457	21.9	15.3	23.2
Under 20 years	342,627	289,793	1,950	49,886	44,663	5,223	2,948	14.7	13.4	27.2
20-24 years	748,371	610,935	13,539	130,749	91,163	39,586	6,687	17.6	13.2	25.5
25-29 years	873,654	678,889	21,983	186,903	116,674	70,229	7,862	21.6	15.1	23.8
30-34 years	739,948	549,915	24,213	183,763	102,932	80,831	6,270	25.0	16.4	23.1
35-39 years	356,959	250,215	13,179	103,671	54,743	48,928	3,073	29.3	18.8	21.2
40-54 years	70,942	46,345	2,294	23,980	13,973	10,007	617	34.1	24.1	18.6
White, non-Hispanic	2,346,450	1,810,682	59,480	514,051	327,106	186,945	21,717	22.1	15.7	24.1
Under 20 years	214,971	180,801	1,101	31,961	28,984	2,977	2,209	15.0	13.9	27.0
20-24 years	514,386	418,584	9,112	90,579	64,658	25,921	5,223	17.8	13.6	26.0
25-29 years	663,569	515,878	16,271	141,398	91,998	49,400	6,293	21.5	15.6	24.8
30-34 years	600,830	449,181	19,850	146,621	84,695	61,926	5,028	24.6	16.5	24.3
35-39 years	294,590	208,110	11,191	84,028	45,256	38,772	2,452	28.8	18.7	22.4
40-54 years	58,104	38,128	1,955	19,464	11,515	7,949	512	33.8	24.1	19.7
Black, total	605,970	462,401	15,438	139,471	88,269	51,202	4,098	23.2	16.5	23.2
Under 20 years	125,143	103,881	1,082	20,431	17,824	2,607	831	16.4	14.8	29.3
20-24 years	193,211	154,052	4,738	37,854	24,777	13,077	1,305	19.7	14.2	26.6
25-29 years	138,868	103,988	4,472	33,889	19,551	14,338	991	24.6	16.4	23.8
30-34 years	91,486	63,924	3,292	26,960	14,884	12,076	602	29.7	19.7	21.4
35-39 years	47,277	30,488	1,556	16,479	8,957	7,522	310	35.1	23.6	17.1
40-54 years	9,985	6,068	298	3,858	2,276	1,582	59	38.9	28.3	15.9
Black, non-Hispanic	588,981	449,580	14,999	135,508	85,898	49,610	3,893	23.2	16.5	23.2
Under 20 years	122,175	101,389	1,051	19,988	17,426	2,562	798	16.5	14.8	29.1
20-24 years	188,247	150,035	4,630	36,965	24,169	12,796	1,247	19.8	14.3	26.6
25-29 years	134,784	100,923	4,347	32,920	19,020	13,900	941	24.6	16.5	23.8
30-34 years	88,403	61,808	3,181	26,032	14,446	11,586	563	29.6	19.8	21.5
35-39 years	45,746	29,558	1,506	15,898	8,655	7,243	290	35.0	23.6	17.2
40-54 years	9,626	5,867	284	3,705	2,182	1,523	54	38.7	28.1	15.7
Hispanic ⁵	764,339	599,118	16,915	161,035	94,433	66,602	4,186	21.2	14.0	20.3
Under 20 years	127,402	108,863	848	17,905	15,660	2,245	634	14.1	12.7	27.4
20-24 years	231,475	190,436	4,373	39,841	26,277	13,564	1,198	17.3	12.4	24.4
25-29 years	203,985	158,330	5,518	44,513	23,900	20,613	1,142	21.9	13.5	21.1
30-34 years	131,369	94,870	4,066	35,731	17,320	18,411	768	27.4	16.0	18.1
35-39 years	58,146	39,031	1,812	18,733	8,939	9,794	382	32.4	19.4	15.6
40-54 years	11,962	7,588	298	4,312	2,337	1,975	62	36.2	24.3	13.1

¹ Percent of all live births by cesarean delivery.² Number of primary cesareans per 100 live births to women who have not had a previous cesarean.³ Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.⁴ Includes races other than white and black and origin not stated.⁵ Includes all persons of Hispanic origin of any race.

Table 41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery by race and Hispanic origin of mother: United States, each State and territory, 1999

[By place of residence]

State	Cesarean delivery rate ¹						Rate of vaginal births after previous cesarean ²					
	All races ³	White		Black		Hispanic ⁴	All races ³	White		Black		Hispanic ⁴
		Total	Non-Hispanic	Total	Non-Hispanic			Total	Non-Hispanic	Total	Non-Hispanic	
United States ⁵	22.0	21.9	22.1	23.2	23.2	21.2	23.4	23.2	24.1	23.2	23.2	20.3
Alabama	24.8	25.4	25.6	23.5	23.6	20.4	19.1	18.4	18.2	20.7	20.7	24.1
Alaska	14.8	16.9	16.7	16.0	16.0	17.1	32.8	27.2	27.7	*	*	24.1
Arizona	17.8	17.9	19.4	18.9	19.1	16.0	22.7	21.9	22.4	16.4	16.5	21.2
Arkansas	25.4	24.9	25.3	27.5	27.5	19.3	15.5	15.9	15.3	13.8	13.8	24.1
California	22.7	22.5	23.5	25.9	26.0	21.9	16.3	16.0	16.9	14.2	14.1	15.5
Colorado	17.3	17.3	17.9	19.2	19.3	15.8	31.0	31.6	30.1	25.6	25.2	34.9
Connecticut	21.0	21.0	21.1	21.4	21.5	19.0	27.6	27.4	27.6	27.6	27.7	26.0
Delaware	23.0	23.2	23.5	23.0	23.0	21.0	28.8	28.5	27.7	28.3	28.5	34.2
District of Columbia ...	22.2	19.9	23.9	23.2	23.2	12.9	27.3	34.6	25.0	25.2	25.0	50.9
Florida	23.8	24.2	23.4	22.5	22.5	26.4	18.7	18.5	20.4	19.1	19.2	14.5
Georgia	21.7	21.5	22.2	22.3	22.3	16.6	21.6	21.9	21.2	20.6	20.7	26.8
Hawaii	13.8	17.2	17.0	16.6	16.7	16.0	32.4	24.2	24.0	*	*	29.6
Idaho	17.3	17.1	17.0	*	*	18.0	33.4	33.6	33.3	*	*	35.4
Illinois	20.1	20.1	20.9	20.2	20.2	17.8	28.8	29.2	28.8	27.2	27.2	30.4
Indiana	20.5	20.5	20.5	20.5	20.5	19.5	24.6	24.5	24.4	24.9	24.9	26.7
Iowa	19.9	20.0	20.0	18.7	18.1	19.6	28.2	28.3	28.5	27.9	28.1	25.9
Kansas	21.2	21.3	21.4	21.4	21.5	20.2	19.9	19.4	19.1	23.4	23.5	20.0
Kentucky	23.3	23.4	23.4	23.2	23.2	21.6	21.5	21.0	20.8	25.6	25.6	34.9
Louisiana	26.8	27.4	27.4	26.0	26.1	28.9	11.3	8.6	8.5	15.2	15.2	*
Maine	21.5	21.5	21.5	28.3	26.7	28.9	23.5	23.6	23.5	*	*	*
Maryland	23.2	22.5	22.8	24.8	24.8	19.7	26.0	26.6	26.4	24.8	24.8	28.8
Massachusetts	22.4	22.4	22.8	24.0	23.8	20.4	28.3	28.1	28.2	28.2	30.9	24.9
Michigan	21.0	21.1	21.3	20.4	20.4	18.5	22.8	22.3	21.8	25.5	25.5	26.2
Minnesota	18.9	19.4	19.5	18.8	18.7	17.6	25.7	25.4	25.9	25.2	25.1	23.5
Mississippi	27.3	28.1	28.3	26.4	26.4	21.4	13.8	13.5	13.4	14.0	14.0	*
Missouri	21.7	22.1	22.2	19.9	19.9	18.2	25.5	25.0	24.8	29.2	29.1	30.2
Montana	18.8	18.3	18.3	*	*	21.1	31.7	32.6	33.5	*	*	*
Nebraska	22.0	22.1	22.4	20.6	20.7	19.6	23.9	24.2	23.4	23.6	23.1	27.8
Nevada	21.8	21.3	22.5	27.1	27.1	19.2	18.5	18.7	18.2	17.8	18.5	19.1
New Hampshire	19.9	19.9	20.0	25.4	25.0	21.1	36.3	36.5	36.5	*	*	*
New Jersey	26.3	26.3	26.4	26.6	26.1	26.3	30.0	29.5	29.6	32.1	33.9	27.5
New Mexico	16.4	16.8	17.4	18.8	19.4	16.4	30.9	28.8	29.9	*	*	28.2
New York	23.6	23.6	24.3	24.3	24.4	22.7	29.3	29.9	29.5	27.4	28.0	28.4
North Carolina	22.7	22.3	22.9	23.9	23.8	18.1	24.0	24.0	23.5	23.7	23.7	27.8
North Dakota	19.5	19.5	19.8	*	*	*	31.8	32.0	31.8	*	*	*
Ohio	19.4	19.4	19.4	19.2	19.2	18.8	32.2	31.3	31.3	36.8	36.5	31.1
Oklahoma	24.1	24.0	24.4	24.6	24.6	21.5	18.9	18.5	18.4	20.1	20.6	19.1
Oregon	18.4	18.3	18.5	18.4	18.0	17.7	32.4	32.3	31.4	34.6	35.0	36.9
Pennsylvania	20.9	21.2	21.4	20.1	20.1	18.4	30.5	29.6	29.5	35.4	35.4	31.2
Rhode Island	20.5	20.7	21.1	20.7	20.6	20.1	26.6	26.7	26.1	22.9	*	29.9
South Carolina	24.2	24.3	24.6	24.1	24.1	18.8	17.9	17.5	17.1	18.3	18.3	27.2
South Dakota	22.3	22.6	22.7	*	*	19.0	23.0	23.7	23.6	*	*	*
Tennessee	24.0	24.1	24.3	23.9	23.9	20.4	21.0	20.0	20.0	24.2	24.2	21.1
Texas	23.8	23.6	24.9	25.5	25.6	22.5	15.4	15.4	15.6	14.2	14.2	15.2
Utah	16.0	15.9	15.7	20.4	21.3	17.7	35.5	35.5	35.7	*	*	34.6
Vermont	16.4	16.4	16.4	*	*	*	35.7	35.9	35.6	*	*	*
Virginia	21.7	21.6	21.8	22.1	22.1	19.2	26.6	26.1	25.9	27.4	27.4	27.3
Washington	18.9	18.7	18.8	22.5	22.5	17.7	28.8	28.7	27.3	30.7	31.7	32.8
West Virginia	24.8	24.6	24.6	27.3	27.3	25.5	18.4	18.6	18.6	*	*	*
Wisconsin	17.0	17.5	17.6	13.7	13.7	16.2	31.7	30.5	30.6	39.2	39.1	29.5
Wyoming	19.6	19.5	19.6	*	*	18.8	26.9	26.3	26.7	*	*	*
Puerto Rico	37.8	38.0	---	35.8	---	---	6.8	6.8	---	6.8	---	---
Virgin Islands	22.7	29.5	26.6	21.1	20.7	27.8	17.4	*	*	17.6	*	*
Guam	16.6	18.5	18.4	*	*	*	26.8	*	*	*	*	*
American Samoa	---	---	---	---	---	---	---	---	---	---	---	---
Northern Marianas	14.9	*	---	*	---	---	*	*	---	*	---	---

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

--- Data not available.

¹ Percent of all live births by cesarean delivery.² Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.³ Includes races other than white and black and origin not stated.⁴ Includes all persons of Hispanic origin of any race.⁵ Excludes data for the territories.

NOTE: Data on method of delivery for the Northern Marianas are substantially incomplete; see Table I in the Technical notes.

Table 42. Rates of cesarean delivery and vaginal birth after previous cesarean delivery, by selected maternal medical risk factors and complications of labor and/or delivery: United States, 1999

Medical risk factor and complication	All births to mothers with specified condition and/or procedure	Cesarean delivery rate		Rate of vaginal birth after previous cesarean ³
		Total ¹	Primary ²	
Medical risk factors				
Anemia	90,322	22.2	15.5	27.3
Cardiac disease	20,189	26.1	19.1	27.0
Acute or chronic lung disease	43,117	25.4	18.4	26.5
Diabetes	106,413	37.2	26.7	17.2
Genital herpes ⁴	33,636	34.5	28.4	27.0
Hydramnios/Oligohydramnios	52,704	36.7	31.3	22.4
Hemoglobinopathy	3,165	25.8	18.7	25.3
Hypertension, chronic	27,912	41.2	31.5	15.1
Hypertension, pregnancy-associated	148,837	36.9	31.7	18.0
Eclampsia	11,993	49.1	44.6	14.4
Incompetent cervix	11,344	35.3	27.8	21.8
Renal disease	11,038	26.1	19.1	26.3
Rh sensitization ⁵	25,448	22.8	16.1	26.6
Uterine bleeding ⁴	22,332	32.6	25.9	22.7
Complications of labor and/or delivery				
Febrile	59,904	29.7	28.0	47.4
Meconium, moderate/heavy	213,698	20.5	17.7	45.1
Premature rupture of membrane	100,130	25.6	22.4	37.2
Abruptio placenta	21,999	59.5	55.0	15.7
Placenta previa	12,492	81.7	77.7	3.6
Other excessive bleeding	21,930	26.5	20.9	32.2
Seizures during labor	1,331	52.2	49.9	*
Precipitous labor (less than 3 hours)	77,848	2.5	1.6	78.3
Prolonged labor (more than 20 hours)	30,683	36.3	34.8	42.5
Dysfunctional labor	105,795	67.3	65.3	15.4
Breech/Malpresentation	152,084	84.5	82.9	5.0
Cephalopelvic disproportion	71,604	96.4	96.0	1.2
Cord prolapse	7,773	65.6	63.5	14.6
Anesthetic complication	2,299	40.1	32.4	19.5
Fetal distress	140,756	57.5	55.1	20.6

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

¹ Percent of all live births by cesarean delivery.

² Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

³ Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

⁴ Texas does not report this risk factor.

⁵ Kansas does not report this risk factor.

Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 1999

Birthweight ¹ and race and Hispanic origin of mother	All births	Period of gestation ²										Not stated
		Preterm					Term			Postterm		
		Total under 37 weeks	Under 28 weeks	28-31 weeks	32-35 weeks	36 weeks	Total 37-41 weeks	37-39 weeks	40 weeks	41 weeks	42 weeks and over	
Number												
All races ³	3,959,417	460,853	28,959	47,938	215,529	168,427	3,170,780	1,899,742	841,824	429,214	284,844	42,940
Less than 500 grams	5,912	5,698	5,440	233	23	2	10	8	1	1	1	203
500-999 grams	22,815	22,137	16,257	5,238	593	49	202	131	50	21	29	447
1,000-1,499 grams	28,750	26,632	3,933	15,314	6,863	522	1,409	1,044	241	124	217	492
1,500-1,999 grams	59,531	49,139	917	11,336	31,884	5,002	8,712	7,242	961	509	852	828
2,000-2,499 grams	184,175	94,895	668	4,222	61,262	28,743	81,960	67,564	9,839	4,557	5,188	2,132
2,500-2,999 grams	653,327	120,993	1,009	4,133	54,470	61,381	491,843	366,832	87,050	37,961	33,774	6,717
3,000-3,499 grams	1,470,019	92,800	-	4,827	38,342	49,631	1,257,225	791,477	318,043	147,705	105,555	14,439
3,500-3,999 grams	1,137,401	38,305	-	2,557	17,378	18,370	989,540	515,199	309,643	164,698	98,399	11,157
4,000-4,499 grams	332,863	7,777	-	-	3,862	3,915	287,930	128,154	98,697	61,079	33,845	3,311
4,500-4,999 grams	53,751	1,238	-	-	600	638	45,801	19,142	15,486	11,173	6,129	583
5,000 grams or more	6,069	191	-	-	98	93	5,059	2,305	1,525	1,229	728	91
Not stated	4,804	1,048	735	78	154	81	1,089	644	288	157	127	2,540
Percent												
Very low birthweight ⁴	1.5	11.8	90.8	43.4	3.5	0.3	0.1	0.1	0.0	0.0	0.1	2.8
Low birthweight ⁵	7.6	43.2	96.4	75.9	46.7	20.4	2.9	4.0	1.3	1.2	2.2	10.2
Number												
White, total	3,132,501	332,067	16,805	31,869	155,999	127,394	2,538,796	1,504,419	682,583	351,794	228,098	33,540
Less than 500 grams	3,272	3,130	2,974	138	16	2	4	4	-	-	-	138
500-999 grams	13,730	13,270	9,540	3,290	407	33	146	97	37	12	19	295
1,000-1,499 grams	19,022	17,613	2,458	10,186	4,628	341	918	684	154	80	144	347
1,500-1,999 grams	41,042	34,022	487	7,821	22,335	3,379	5,854	4,875	638	341	565	601
2,000-2,499 grams	128,495	67,794	356	2,732	44,232	20,474	55,758	46,090	6,549	3,119	3,451	1,492
2,500-2,999 grams	468,684	88,736	564	2,553	39,759	45,860	351,203	262,881	61,128	27,194	23,906	4,839
3,000-3,499 grams	1,150,762	69,428	-	3,185	27,593	38,650	988,174	622,576	249,290	116,308	81,830	11,330
3,500-3,999 grams	959,432	29,889	-	1,909	13,217	14,763	837,832	436,107	262,266	139,459	82,410	9,301
4,000-4,499 grams	291,799	6,356	-	-	3,113	3,243	253,017	111,877	87,146	53,994	29,600	2,826
4,500-4,999 grams	47,564	1,025	-	-	505	520	40,606	16,758	13,791	10,057	5,425	508
5,000 grams or more	5,238	146	-	-	76	70	4,377	1,944	1,341	1,092	642	73
Not stated	3,461	658	426	55	118	59	907	526	243	138	106	1,790
Percent												
Very low birthweight ⁴	1.2	10.3	91.4	42.8	3.2	0.3	0.0	0.1	0.0	0.0	0.1	2.5
Low birthweight ⁵	6.6	41.0	96.6	76.0	45.9	19.0	2.5	3.4	1.1	1.0	1.8	9.0
Number												
White, non-Hispanic	2,346,450	245,159	12,313	23,496	113,630	95,720	1,917,885	1,136,012	514,960	266,913	168,364	15,042
Less than 500 grams	2,365	2,314	2,192	107	14	1	1	1	-	-	-	50
500-999 grams	10,165	9,912	7,037	2,555	299	21	102	67	24	11	6	145
1,000-1,499 grams	14,481	13,561	1,801	7,898	3,596	266	654	489	109	56	101	165
1,500-1,999 grams	31,610	26,458	333	6,075	17,408	2,642	4,429	3,714	463	252	414	309
2,000-2,499 grams	96,992	52,336	260	1,894	34,383	15,799	41,454	34,494	4,700	2,260	2,475	727
2,500-2,999 grams	340,563	66,559	377	1,605	29,410	35,167	254,732	192,240	43,207	19,285	17,126	2,146
3,000-3,499 grams	842,394	48,504	-	2,031	17,758	28,715	730,674	463,169	182,308	85,197	58,495	4,721
3,500-3,999 grams	733,006	19,932	-	1,287	8,299	10,346	647,175	337,725	201,913	107,537	61,789	4,110
4,000-4,499 grams	230,650	4,313	-	-	2,017	2,296	201,937	88,958	69,778	43,201	23,083	1,317
4,500-4,999 grams	37,836	681	-	-	312	369	32,611	13,241	11,223	8,147	4,311	233
5,000 grams or more	3,987	94	-	-	48	46	3,376	1,476	1,045	855	480	37
Not stated	2,401	495	313	44	86	52	740	438	190	112	84	1,082
Percent												
Very low birthweight ⁴	1.2	10.5	91.9	45.0	3.4	0.3	0.0	0.0	0.0	0.0	0.1	2.6
Low birthweight ⁵	6.6	42.7	96.9	79.0	49.1	19.6	2.4	3.4	1.0	1.0	1.8	10.0

See footnotes at end of table.

Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 1999 --Con.

Birthweight ¹ and race and Hispanic origin of mother	All births	Period of gestation ²										Not stated
		Preterm					Term			Postterm		
		Total under 37 weeks	Under 28 weeks	28-31 weeks	32-35 weeks	36 weeks	Total 37-41 weeks	37-39 weeks	40 weeks	41 weeks	42 weeks and over	
Number												
Black, total	605,970	105,210	10,977	13,840	48,511	31,882	453,106	284,513	112,664	55,929	42,690	4,964
Less than 500 grams	2,424	2,359	2,267	86	6	-	6	4	1	1	1	58
500-999 grams	8,179	8,006	6,079	1,757	157	13	47	30	12	5	10	116
1,000-1,499 grams	8,403	7,819	1,301	4,484	1,881	153	416	306	71	39	71	97
1,500-1,999 grams	15,526	12,759	390	2,984	8,037	1,348	2,364	1,947	270	147	242	161
2,000-2,499 grams	44,790	22,145	291	1,305	13,946	6,603	20,785	16,959	2,628	1,198	1,444	416
2,500-2,999 grams	139,262	25,680	370	1,359	11,970	11,981	104,692	77,026	19,456	8,210	7,855	1,035
3,000-3,499 grams	229,798	18,363	-	1,367	8,567	8,429	191,785	120,100	48,784	22,901	18,100	1,550
3,500-3,999 grams	124,009	6,492	-	483	3,268	2,741	105,174	54,970	32,444	17,760	11,499	844
4,000-4,499 grams	27,907	1,053	-	-	557	496	23,731	11,189	7,749	4,793	2,923	200
4,500-4,999 grams	4,205	161	-	-	78	83	3,534	1,659	1,109	766	474	36
5,000 grams or more	554	31	-	-	15	16	453	245	113	95	56	14
Not stated	913	342	279	15	29	19	119	78	27	14	15	437
Percent												
Very low birthweight ⁴	3.1	17.3	90.2	45.8	4.2	0.5	0.1	0.1	0.1	0.1	0.2	6.0
Low birthweight ⁵	13.1	50.6	96.5	76.8	49.6	25.5	5.2	6.8	2.6	2.5	4.1	18.7
Number												
Black, non-Hispanic	588,981	103,034	10,799	13,602	47,484	31,149	439,816	276,706	109,057	54,053	41,462	4,669
Less than 500 grams	2,381	2,318	2,229	84	5	-	6	4	1	1	1	56
500-999 grams	8,059	7,891	5,988	1,737	153	13	47	30	12	5	10	111
1,000-1,499 grams	8,273	7,704	1,278	4,423	1,853	150	405	300	68	37	70	94
1,500-1,999 grams	15,217	12,512	380	2,934	7,880	1,318	2,313	1,905	264	144	238	154
2,000-2,499 grams	43,896	21,711	284	1,281	13,665	6,481	20,365	16,630	2,567	1,168	1,420	400
2,500-2,999 grams	135,952	25,123	363	1,332	11,727	11,701	102,175	75,197	18,950	8,028	7,661	993
3,000-3,499 grams	223,441	17,928	-	1,336	8,371	8,221	186,401	116,894	47,317	22,190	17,621	1,491
3,500-3,999 grams	119,685	6,308	-	464	3,180	2,664	101,467	53,117	31,254	17,096	11,109	801
4,000-4,499 grams	26,732	1,021	-	-	534	487	22,705	10,718	7,431	4,556	2,815	191
4,500-4,999 grams	4,030	155	-	-	74	81	3,388	1,606	1,058	724	452	35
5,000 grams or more	528	30	-	-	15	15	433	233	109	91	51	14
Not stated	787	333	277	11	27	18	111	72	26	13	14	329
Percent												
Very low birthweight ⁴	3.2	17.4	90.2	45.9	4.2	0.5	0.1	0.1	0.1	0.1	0.2	6.0
Low birthweight ⁵	13.2	50.8	96.6	77.0	49.6	25.6	5.3	6.8	2.7	2.5	4.2	18.8
Number												
Hispanic ⁶	764,339	85,363	4,333	8,203	41,797	31,030	603,348	358,620	162,579	82,149	58,360	17,268
Less than 500 grams	828	747	712	31	3	1	3	3	-	-	-	78
500-999 grams	3,441	3,241	2,423	701	105	12	43	30	11	2	13	144
1,000-1,499 grams	4,437	3,964	651	2,219	1,020	74	260	193	45	22	41	172
1,500-1,999 grams	9,248	7,401	155	1,691	4,824	731	1,408	1,139	176	93	152	287
2,000-2,499 grams	30,734	15,068	97	818	9,621	4,532	13,979	11,322	1,816	841	955	732
2,500-2,999 grams	125,812	21,772	191	945	10,189	10,447	94,760	69,292	17,685	7,783	6,719	2,561
3,000-3,499 grams	301,243	20,677	-	1,156	9,768	9,753	251,365	155,566	65,380	30,419	22,894	6,307
3,500-3,999 grams	218,943	9,923	-	630	4,905	4,388	184,015	95,164	58,122	30,729	20,050	4,955
4,000-4,499 grams	58,553	2,017	-	-	1,108	909	48,813	21,984	16,600	10,229	6,285	1,438
4,500-4,999 grams	9,268	348	-	-	196	152	7,589	3,389	2,428	1,772	1,069	262
5,000 grams or more	1,209	51	-	-	27	24	963	457	272	234	160	35
Not stated	623	154	104	12	31	7	150	81	44	25	22	297
Percent												
Very low birthweight ⁴	1.1	9.3	89.5	36.0	2.7	0.3	0.1	0.1	0.0	0.0	0.1	2.3
Low birthweight ⁵	6.4	35.7	95.5	66.7	37.3	17.2	2.6	3.5	1.3	1.2	2.0	8.3

- Quantity zero.

0.0 Quantity more than zero but less than 0.05.

¹ Equivalents of the gram weights in pounds and ounces are shown in the Technical notes.² Expressed in completed weeks.³ Includes races other than white and black and origin not stated.⁴ Birthweight of less than 1,500 grams (3 lb 4 oz).⁵ Birthweight of less than 2,500 grams (5 lb 8 oz).⁶ Includes all persons of Hispanic origin of any race.

Table 44. Percent of live births very preterm and preterm and percent of live births of very low birthweight and low birthweight, by race and Hispanic origin of mother: United States, 1981-99

Year	Very preterm ¹						Preterm ²					
	All races ³	White		Black		Hispanic ⁴	All races ³	White		Black		Hispanic ⁴
		Total	Non-Hispanic	Total	Non-Hispanic			Total	Non-Hispanic	Total	Non-Hispanic	
1999	1.96	1.57	1.54	4.13	4.18	1.68	11.8	10.7	10.5	17.5	17.6	11.4
1998	1.96	1.57	1.52	4.11	4.15	1.72	11.6	10.5	10.2	17.5	17.6	11.4
1997	1.94	1.53	1.49	4.17	4.19	1.68	11.4	10.2	9.9	17.5	17.6	11.2
1996	1.89	1.48	1.43	4.13	4.17	1.66	11.0	9.8	9.5	17.4	17.5	10.9
1995	1.89	1.46	1.41	4.25	4.29	1.66	11.0	9.7	9.4	17.7	17.8	10.9
1994	1.91	1.45	1.39	4.32	4.36	1.67	11.0	9.6	9.3	18.1	18.2	10.9
1993	1.93	1.45	1.39	4.41	4.45	1.67	11.0	9.5	9.1	18.5	18.6	11.0
1992 ⁷	1.91	1.40	1.33	4.47	4.50	1.64	10.7	9.1	8.7	18.4	18.5	10.7
1991 ⁷	1.94	1.41	1.35	4.62	4.65	1.65	10.8	9.1	8.7	18.9	19.0	11.0
1990 ⁸	1.92	1.39	1.33	4.61	4.63	1.69	10.6	8.9	8.5	18.8	18.9	11.0
1989 ⁹	1.95	1.41	1.34	4.64	4.68	1.76	10.6	8.8	8.4	18.9	19.0	11.1
1988	1.96	1.42	---	4.72	---	---	10.2	8.5	---	18.7	---	---
1987	1.96	1.44	---	4.61	---	---	10.2	8.5	---	18.4	---	---
1986	1.90	1.41	---	4.47	---	---	10.0	8.4	---	18.0	---	---
1985	1.88	1.42	---	4.37	---	---	9.8	8.2	---	17.8	---	---
1984	1.83	1.38	---	4.22	---	---	9.4	7.9	---	17.1	---	---
1983	1.86	1.40	---	4.34	---	---	9.6	8.0	---	17.7	---	---
1982	1.84	1.40	---	4.22	---	---	9.5	8.0	---	17.4	---	---
1981	1.81	1.37	---	4.13	---	---	9.4	7.9	---	17.3	---	---

Year	Very low birthweight ⁵						Low birthweight ⁶					
	All races ³	White		Black		Hispanic ⁴	All races ³	White		Black		Hispanic ⁴
		Total	Non-Hispanic	Total	Non-Hispanic			Total	Non-Hispanic	Total	Non-Hispanic	
1999	1.45	1.15	1.15	3.14	3.18	1.14	7.6	6.6	6.6	13.1	13.2	6.4
1998	1.45	1.15	1.15	3.08	3.11	1.15	7.6	6.5	6.6	13.0	13.2	6.4
1997	1.42	1.13	1.12	3.04	3.05	1.13	7.5	6.5	6.5	13.0	13.1	6.4
1996	1.37	1.09	1.08	2.99	3.02	1.12	7.4	6.3	6.4	13.0	13.1	6.3
1995	1.35	1.06	1.04	2.97	2.98	1.11	7.3	6.2	6.2	13.1	13.2	6.3
1994	1.33	1.02	1.01	2.96	2.99	1.08	7.3	6.1	6.1	13.2	13.3	6.2
1993	1.33	1.01	1.00	2.96	2.99	1.06	7.2	6.0	5.9	13.3	13.4	6.2
1992 ⁷	1.29	0.96	0.94	2.96	2.97	1.04	7.1	5.8	5.7	13.3	13.4	6.1
1991 ⁷	1.29	0.96	0.94	2.96	2.97	1.02	7.1	5.8	5.7	13.6	13.6	6.1
1990 ⁸	1.27	0.95	0.93	2.92	2.93	1.03	7.0	5.7	5.6	13.3	13.3	6.1
1989 ⁹	1.28	0.95	0.93	2.95	2.97	1.05	7.0	5.7	5.6	13.5	13.6	6.2
1988	1.24	0.93	---	2.86	---	---	6.9	5.7	---	13.3	---	---
1987	1.24	0.94	---	2.79	---	---	6.9	5.7	---	13.0	---	---
1986	1.21	0.93	---	2.73	---	---	6.8	5.7	---	12.8	---	---
1985	1.21	0.93	---	2.71	---	---	6.8	5.7	---	12.6	---	---
1984	1.19	0.93	---	2.60	---	---	6.7	5.6	---	12.6	---	---
1983	1.19	0.92	---	2.60	---	---	6.8	5.7	---	12.8	---	---
1982	1.18	0.91	---	2.56	---	---	6.8	5.6	---	12.6	---	---
1981	1.16	0.91	---	2.52	---	---	6.8	5.7	---	12.7	---	---

--- Data not available.

¹ Births of less than 32 completed weeks of gestation.² Births of less than 37 completed weeks of gestation.³ Includes races other than white and black and origin not stated.⁴ Includes all persons of Hispanic origin of any race.⁵ Less than 1,500 grams (3 lb. 4 oz.).⁶ Less than 2,500 grams (5 lb. 8 oz.).⁷ Data by Hispanic origin exclude New Hampshire, which did not report Hispanic origin.⁸ Data by Hispanic origin exclude New Hampshire and Oklahoma, which did not report Hispanic origin.⁹ Data by Hispanic origin exclude New Hampshire, Oklahoma, and Louisiana, which did not report Hispanic origin.

Table 45. Number and percent low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 1999

Age and race and Hispanic origin of mother	Low birthweight ¹		Birthweight ²												
	Number	Percent	Total	Less than 500 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	Not stated
All races ³															
All ages	301,183	7.6	3,959,417	5,912	22,815	28,750	59,531	184,175	653,327	1,470,019	1,137,401	332,863	53,751	6,069	4,804
Under 15 years	1,161	12.9	9,054	27	126	140	212	656	2,169	3,642	1,755	276	30	1	20
15-19 years	45,604	9.6	476,050	861	3,577	4,289	8,542	28,335	102,468	191,079	109,812	23,383	2,791	289	624
15 years	2,611	11.4	22,896	42	233	262	525	1,549	5,573	9,234	4,563	804	72	5	34
16 years	5,460	10.6	51,516	110	470	519	966	3,395	11,646	20,723	11,220	2,139	243	28	57
17 years	8,937	10.0	89,176	175	725	811	1,681	5,545	19,679	35,971	19,954	4,014	455	39	127
18 years	12,847	9.6	133,988	230	962	1,207	2,415	8,033	28,760	54,036	30,695	6,614	788	73	175
19 years	15,749	8.8	178,474	304	1,187	1,490	2,955	9,813	36,810	71,115	43,380	9,812	1,233	144	231
20-24 years	74,294	7.6	981,929	1,483	5,479	6,614	13,787	46,931	179,377	383,073	265,074	67,981	9,918	1,041	1,171
25-29 years	72,455	6.7	1,078,252	1,430	5,491	6,778	14,300	44,456	164,320	399,715	325,737	97,453	15,667	1,669	1,236
30-34 years	62,184	7.0	892,400	1,227	4,807	6,151	12,729	37,270	126,360	315,460	279,369	90,599	15,602	1,801	1,025
35-39 years	36,328	8.4	434,294	715	2,672	3,812	7,857	21,272	64,576	148,173	130,951	44,643	8,018	1,025	580
40-44 years	8,364	10.1	83,090	158	606	884	1,874	4,842	13,242	27,609	23,655	8,209	1,639	234	138
45-54 years	793	18.3	4,348	11	57	82	230	413	815	1,268	1,048	319	86	9	10
White, total															
All ages	205,561	6.6	3,132,501	3,272	13,730	19,022	41,042	128,495	468,684	1,150,762	959,432	291,799	47,564	5,238	3,461
Under 15 years	512	10.8	4,739	15	58	66	92	281	961	1,977	1,075	185	18	-	11
15-19 years	27,488	8.1	337,888	418	1,925	2,563	5,086	17,496	66,027	136,706	85,483	19,189	2,327	245	423
15 years	1,376	9.7	14,193	20	119	139	264	834	3,077	5,842	3,206	609	53	5	25
16 years	3,111	9.0	34,649	54	243	301	542	1,971	7,086	14,053	8,428	1,709	198	23	41
17 years	5,375	8.6	62,782	96	392	484	1,017	3,386	12,616	25,626	15,400	3,274	384	30	77
18 years	7,926	8.2	96,254	96	532	722	1,462	5,114	18,934	39,053	24,046	5,439	668	62	126
19 years	9,700	7.5	130,010	152	639	917	1,801	6,191	24,314	52,132	34,403	8,158	1,024	125	154
20-24 years	47,931	6.4	748,371	749	3,090	4,087	8,891	31,114	124,436	291,122	216,757	57,897	8,538	891	799
25-29 years	51,081	5.9	873,654	754	3,397	4,611	10,177	32,142	121,524	319,795	278,857	86,189	13,889	1,431	888
30-34 years	45,567	6.2	739,948	752	3,132	4,376	9,483	27,824	96,025	257,445	243,271	81,211	14,093	1,566	770
35-39 years	26,313	7.4	356,959	465	1,698	2,642	5,761	15,747	49,135	120,523	112,881	39,614	7,154	887	452
40-44 years	6,035	9.0	67,419	109	386	617	1,376	3,547	9,921	22,195	20,234	7,244	1,468	211	111
45-54 years	634	18.0	3,523	10	44	60	176	344	655	999	874	270	77	7	7
White, non-Hispanic															
All ages	155,613	6.6	2,346,450	2,365	10,165	14,481	31,610	96,992	340,563	842,394	733,006	230,650	37,836	3,987	2,401
Under 15 years	233	11.4	2,048	5	24	35	41	128	396	802	501	103	11	-	2
15-19 years	17,821	8.4	212,923	288	1,263	1,711	3,466	11,093	40,085	83,506	55,899	13,489	1,692	177	254
15 years	741	10.7	6,963	11	74	77	170	409	1,387	2,732	1,704	344	35	3	17
16 years	1,737	9.2	18,886	34	135	175	324	1,069	3,659	7,357	4,856	1,104	133	18	22
17 years	3,323	8.8	37,671	65	257	320	663	2,018	7,244	14,881	9,651	2,226	281	20	45
18 years	5,290	8.5	62,282	70	351	496	1,021	3,352	11,844	24,575	16,102	3,866	491	40	74
19 years	6,730	7.7	87,121	108	446	643	1,288	4,245	15,951	33,961	23,586	5,949	752	96	96
20-24 years	33,979	6.6	514,386	517	2,173	2,937	6,329	22,023	83,875	195,076	151,514	42,406	6,389	624	523
25-29 years	39,482	6.0	663,569	556	2,566	3,625	7,916	24,819	90,863	238,676	214,243	67,616	10,973	1,086	630
30-34 years	37,067	6.2	600,830	549	2,491	3,500	7,824	22,703	76,756	206,647	199,409	67,560	11,587	1,232	572
35-39 years	21,566	7.3	294,590	352	1,319	2,132	4,731	13,032	40,044	98,851	93,972	33,206	5,914	698	339
40-44 years	4,911	8.9	55,175	89	293	492	1,141	2,896	7,996	18,028	16,750	6,045	1,203	167	75
45-54 years	554	19.0	2,929	9	36	49	162	298	548	808	718	225	67	3	6

See footnotes at end of table.

Table 46. Number and percent of births of low birthweight by race and Hispanic origin of mother: United States, each State and territory, 1999

[By place of residence. Low birthweight is birthweight of less than 2,500 grams (5 lb 8 oz)]

State	Number						Percent					
	All races ¹	White		Black		Hispanic ²	All races ¹	White		Black		Hispanic ²
		Total	Non-Hispanic	Total	Non-Hispanic			Total	Non-Hispanic	Total	Non-Hispanic	
United States ³	301,183	205,561	155,613	79,322	77,826	48,688	7.6	6.6	6.6	13.1	13.2	6.4
Alabama	5,787	3,048	2,947	2,690	2,686	105	9.3	7.3	7.3	13.6	13.6	6.6
Alaska	577	348	317	46	43	39	5.8	5.3	5.2	10.5	10.1	6.6
Arizona	5,575	4,685	2,533	330	319	2,147	6.9	6.6	6.5	12.1	12.3	6.7
Arkansas	3,161	2,106	1,991	995	993	115	8.6	7.4	7.5	13.0	13.0	5.9
California	31,714	23,372	9,575	4,145	4,052	13,805	6.1	5.5	5.6	11.7	11.8	5.5
Colorado	5,184	4,542	3,238	399	391	1,329	8.3	8.0	8.0	13.8	14.0	8.2
Connecticut	3,294	2,467	1,772	702	669	574	7.6	6.8	6.3	13.1	13.4	9.1
Delaware	918	526	466	368	368	60	8.6	6.8	6.8	13.8	13.9	7.0
District of Columbia	987	141	94	831	823	48	13.1	6.4	6.7	16.1	16.1	6.1
Florida	16,096	10,132	7,552	5,513	5,426	2,669	8.2	6.9	7.1	12.2	12.3	6.4
Georgia	11,027	5,426	4,777	5,366	5,299	607	8.7	6.7	6.8	12.7	12.8	5.8
Hawaii	1,280	217	172	45	43	175	7.6	5.4	5.2	9.8	10.1	8.0
Idaho	1,226	1,165	1,019	8	8	141	6.2	6.1	6.1	*	*	6.0
Illinois	14,567	9,093	6,746	4,858	4,839	2,359	8.0	6.5	6.5	14.2	14.2	6.4
Indiana	6,728	5,439	5,137	1,192	1,190	281	7.9	7.2	7.3	12.9	12.9	6.5
Iowa	2,314	2,080	1,946	147	141	105	6.2	5.9	5.9	12.6	12.6	5.7
Kansas	2,750	2,309	2,024	348	348	264	7.1	6.7	6.7	12.2	12.3	6.2
Kentucky	4,466	3,727	3,668	695	689	60	8.2	7.6	7.7	14.0	14.0	6.3
Louisiana	6,704	2,664	2,574	3,941	3,921	96	10.0	6.9	7.0	14.5	14.5	6.2
Maine	818	792	757	12	10	4	6.0	6.0	6.1	*	*	*
Maryland	6,495	2,989	2,708	3,271	3,252	294	9.0	6.7	6.7	13.5	13.5	7.2
Massachusetts	5,693	4,475	3,848	886	770	720	7.1	6.6	6.4	10.9	11.8	8.2
Michigan	10,655	6,811	5,829	3,496	3,462	416	8.0	6.5	6.4	14.6	14.7	6.7
Minnesota	4,009	3,219	2,899	440	432	199	6.1	5.6	5.7	11.0	11.0	6.0
Mississippi	4,412	1,673	1,641	2,682	2,681	281	10.3	7.4	7.4	13.8	13.8	6.2
Missouri	5,831	4,180	4,046	1,546	1,542	132	7.7	6.7	6.7	13.7	13.7	5.8
Montana	738	642	622	3	3	16	6.8	6.8	6.9	*	*	*
Nebraska	1,610	1,380	1,199	163	163	152	6.7	6.4	6.4	12.9	13.0	6.6
Nevada	2,220	1,757	1,178	272	266	566	7.6	7.0	7.6	12.4	12.6	6.1
New Hampshire	869	840	756	16	16	26	6.2	6.2	5.9	*	*	7.3
New Jersey	9,299	5,800	4,338	2,818	2,675	1,539	8.2	6.9	6.7	13.4	14.0	7.2
New Mexico	2,080	1,738	702	61	59	1,051	7.7	7.6	7.7	12.3	12.8	7.6
New York	20,038	12,411	8,088	6,249	5,757	4,002	7.8	6.8	6.5	11.7	12.1	7.6
North Carolina	10,089	5,832	5,211	3,900	3,883	632	8.9	7.2	7.3	13.7	13.7	6.4
North Dakota	474	421	408	2	2	4	6.2	6.2	6.3	*	*	*
Ohio	12,006	8,784	8,529	3,019	2,940	255	7.9	6.9	6.9	13.7	13.7	7.5
Oklahoma	3,598	2,708	2,446	545	525	230	7.4	7.0	7.2	11.9	11.8	5.9
Oregon	2,430	2,185	1,811	97	95	359	5.4	5.3	5.3	10.7	10.8	5.2
Pennsylvania	11,489	8,281	7,610	2,900	2,856	654	7.9	6.8	6.7	14.3	14.3	9.1
Rhode Island	900	734	490	110	99	133	7.3	6.8	6.7	11.3	11.7	7.1
South Carolina	5,402	2,524	2,437	2,806	2,800	95	9.8	7.2	7.3	14.7	14.7	5.5
South Dakota	619	511	503	10	10	9	5.9	5.9	5.9	*	*	*
Tennessee	7,148	4,713	4,554	2,335	2,332	161	9.2	7.9	7.9	14.2	14.2	6.6
Texas	25,696	19,787	9,301	5,042	4,978	10,461	7.4	6.6	6.7	12.6	12.6	6.6
Utah	3,155	2,960	2,587	36	36	364	6.8	6.7	6.7	13.6	14.2	6.7
Vermont	371	365	352	3	3	2	5.7	5.7	5.6	*	*	*
Virginia	7,389	4,394	4,020	2,665	2,659	381	7.8	6.4	6.5	12.0	12.1	5.8
Washington	4,578	3,685	2,979	344	308	542	5.8	5.5	5.4	10.4	10.2	5.3
West Virginia	1,663	1,558	1,553	92	92	5	8.0	7.9	7.9	12.3	12.4	*
Wisconsin	4,542	3,459	3,226	871	861	247	6.7	5.9	5.9	13.4	13.4	6.1
Wyoming	512	466	437	11	11	30	8.4	8.1	8.4	*	*	5.7
Puerto Rico	6,789	6,220	---	568	---	---	11.4	11.4	---	11.4	---	---
Virgin Islands	168	32	4	132	118	40	10.1	10.3	*	10.3	10.3	13.3
Guam	314	7	7	4	4	1	7.8	*	*	*	*	*
American Samoa	62	-	---	-	---	---	3.6	*	---	*	---	---
Northern Marianas	107	2	---	-	---	---	8.2	*	---	*	---	---

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

--- Data not available.

- Quantity zero.

¹ Includes races other than white and black and origin not stated.² Includes all persons of Hispanic origin of any race.³ Excludes data for the territories.

Table 47. Number and percent of births of very low birthweight by race and Hispanic origin of mother: United States, each State and territory, 1999

[By place of residence. Very low birthweight is birthweight of less than 1,500 grams (3 lb 4 oz)]

State	Number						Percent					
	All races ¹	White		Black		Hispanic ²	All races ¹	White		Black		Hispanic ²
		Total	Non-Hispanic	Total	Non-Hispanic			Total	Non-Hispanic	Total	Non-Hispanic	
United States ³	57,477	36,024	27,011	19,006	18,713	8,706	1.5	1.2	1.2	3.1	3.2	1.1
Alabama	1,251	570	555	669	669	15	2.0	1.4	1.4	3.4	3.4	*
Alaska	100	66	61	9	8	8	1.0	1.0	1.0	*	*	*
Arizona	875	724	393	72	69	325	1.1	1.0	1.0	2.6	2.7	1.0
Arkansas	596	365	351	226	226	14	1.6	1.3	1.3	2.9	3.0	*
California	5,937	4,252	1,675	1,035	1,016	2,557	1.1	1.0	1.0	2.9	3.0	1.0
Colorado	762	661	464	78	75	203	1.2	1.2	1.1	2.7	2.7	1.2
Connecticut	683	495	330	177	171	129	1.6	1.4	1.2	3.3	3.4	2.0
Delaware	205	105	87	95	95	18	1.9	1.4	1.3	3.6	3.6	*
District of Columbia	253	27	16	225	225	10	3.4	1.2	*	4.4	4.4	*
Florida	3,192	1,805	1,340	1,333	1,318	473	1.6	1.2	1.3	3.0	3.0	1.1
Georgia	2,139	887	784	1,216	1,201	97	1.7	1.1	1.1	2.9	2.9	0.9
Hawaii	210	42	35	10	9	20	1.2	1.1	1.1	*	*	0.9
Idaho	213	201	175	4	4	25	1.1	1.0	1.0	*	*	1.1
Illinois	3,004	1,691	1,183	1,202	1,194	510	1.7	1.2	1.1	3.5	3.5	1.4
Indiana	1,243	951	893	278	277	59	1.5	1.3	1.3	3.0	3.0	1.4
Iowa	417	378	347	28	28	20	1.1	1.1	1.0	2.4	2.5	1.1
Kansas	499	415	362	72	72	49	1.3	1.2	1.2	2.5	2.6	1.1
Kentucky	838	674	663	162	161	9	1.5	1.4	1.4	3.3	3.3	*
Louisiana	1,378	445	431	921	920	18	2.1	1.2	1.2	3.4	3.4	*
Maine	147	139	138	3	3	-	1.1	1.1	1.1	*	*	*
Maryland	1,412	490	446	885	884	48	2.0	1.1	1.1	3.6	3.7	1.2
Massachusetts	1,102	819	690	234	212	137	1.4	1.2	1.1	2.9	3.2	1.6
Michigan	2,181	1,250	1,060	879	867	68	1.6	1.2	1.2	3.7	3.7	1.1
Minnesota	720	568	515	110	108	40	1.1	1.0	1.0	2.7	2.8	1.2
Mississippi	903	316	310	575	575	6	2.1	1.4	1.4	3.0	3.0	*
Missouri	1,145	739	718	390	387	21	1.5	1.2	1.2	3.5	3.4	0.9
Montana	121	95	92	1	1	3	1.1	1.0	1.0	*	*	*
Nebraska	291	246	214	37	37	26	1.2	1.1	1.1	2.9	2.9	1.1
Nevada	325	235	149	57	56	85	1.1	0.9	1.0	2.6	2.6	0.9
New Hampshire	165	158	127	2	2	8	1.2	1.2	1.0	*	*	*
New Jersey	2,003	1,170	849	739	713	317	1.8	1.4	1.3	3.5	3.7	1.5
New Mexico	315	259	106	6	6	159	1.2	1.1	1.2	*	*	1.2
New York	3,918	2,217	1,389	1,511	1,422	788	1.5	1.2	1.1	2.8	3.0	1.5
North Carolina	2,161	1,118	990	971	968	130	1.9	1.4	1.4	3.4	3.4	1.3
North Dakota	73	64	60	-	-	3	1.0	0.9	0.9	*	*	*
Ohio	2,241	1,525	1,479	693	680	46	1.5	1.2	1.2	3.1	3.2	1.3
Oklahoma	602	432	397	117	114	33	1.2	1.1	1.2	2.6	2.6	0.8
Oregon	420	379	314	15	15	64	0.9	0.9	0.9	*	*	0.9
Pennsylvania	2,274	1,548	1,427	688	675	112	1.6	1.3	1.3	3.4	3.4	1.6
Rhode Island	182	141	89	26	22	31	1.5	1.3	1.2	2.7	2.6	1.7
South Carolina	1,107	434	421	664	663	14	2.0	1.2	1.3	3.5	3.5	*
South Dakota	107	84	83	3	3	1	1.0	1.0	1.0	*	*	*
Tennessee	1,255	699	675	535	535	25	1.6	1.2	1.2	3.2	3.2	1.0
Texas	4,511	3,255	1,539	1,140	1,126	1,714	1.3	1.1	1.1	2.8	2.9	1.1
Utah	514	486	427	7	7	55	1.1	1.1	1.1	*	*	1.0
Vermont	69	67	62	-	-	-	1.1	1.0	1.0	*	*	*
Virginia	1,484	803	732	632	632	70	1.6	1.2	1.2	2.9	2.9	1.1
Washington	742	583	460	68	61	94	0.9	0.9	0.8	2.1	2.0	0.9
West Virginia	271	246	246	21	21	-	1.3	1.2	1.3	2.8	2.8	*
Wisconsin	859	645	607	183	178	44	1.3	1.1	1.1	2.8	2.8	1.1
Wyoming	62	60	55	2	2	5	1.0	1.0	1.1	*	*	*
Puerto Rico	787	725	---	61	---	---	1.3	1.3	---	1.2	---	---
Virgin Islands	41	4	-	37	34	6	2.5	*	*	2.9	3.0	*
Guam	26	1	1	1	1	-	0.6	*	*	*	*	*
American Samoa	8	-	---	-	---	---	*	*	---	*	---	---
Northern Marianas	14	1	---	-	---	---	*	*	---	*	---	---

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

- Quantity zero.

--- Data not available.

¹ Includes races other than white and black and origin not stated.² Includes all persons of Hispanic origin of any race.³ Excludes data for the territories.

Table 48. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 1999

[Rates are number of live births with specified abnormal condition per 1,000 live births in specified group]

Abnormal condition and race of mother	All births ¹	Abnormal condition reported	Age of mother							Not stated ²
			All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	
All races ³										
Anemia	3,959,417	4,191	1.1	1.1	1.0	1.0	1.1	1.2	1.4	100,783
Birth injury ⁴	3,586,265	9,980	2.9	2.8	2.9	3.0	2.8	2.9	2.5	103,435
Fetal alcohol syndrome ⁵	3,891,209	148	0.0	*	0.0	0.0	0.0	0.1	*	101,892
Hyaline membrane disease/RDS	3,959,417	24,147	6.3	6.9	6.3	6.1	6.0	6.4	7.3	100,783
Meconium aspiration syndrome	3,959,417	7,681	2.0	2.2	2.1	1.9	1.8	2.0	2.1	100,783
Assisted ventilation less than 30 minutes ⁶	3,840,078	79,898	21.4	21.9	20.6	21.3	21.5	22.3	23.8	109,831
Assisted ventilation 30 minutes or longer ⁶	3,840,078	36,712	9.8	11.2	9.5	9.1	9.6	10.8	13.3	109,831
Seizures	3,959,417	2,102	0.5	0.6	0.6	0.5	0.5	0.5	0.6	100,783
White										
Anemia	3,132,501	3,095	1.0	1.0	1.0	1.0	1.0	1.1	1.4	75,931
Birth injury ⁴	2,812,735	8,230	3.0	3.0	3.1	3.1	2.9	2.9	2.5	78,079
Fetal alcohol syndrome ⁵	3,073,731	80	0.0	*	*	0.0	*	*	*	76,973
Hyaline membrane disease/RDS	3,132,501	19,406	6.3	7.1	6.4	6.2	6.0	6.4	7.2	75,931
Meconium aspiration syndrome	3,132,501	5,534	1.8	2.1	1.9	1.8	1.7	1.8	2.0	75,931
Assisted ventilation less than 30 minutes ⁶	3,065,587	65,053	21.8	22.3	20.9	21.8	21.8	22.9	24.4	83,194
Assisted ventilation 30 minutes or longer ⁶	3,065,587	28,407	9.5	10.8	9.1	8.9	9.3	10.5	13.0	83,194
Seizures	3,132,501	1,638	0.5	0.6	0.5	0.5	0.5	0.5	0.6	75,931
Black										
Anemia	605,970	869	1.5	1.4	1.3	1.5	1.5	2.3	2.1	13,771
Birth injury ⁴	564,605	955	1.7	1.7	1.7	1.8	1.7	1.9	*	14,083
Fetal alcohol syndrome ⁵	599,465	50	0.1	*	*	*	0.2	*	*	13,818
Hyaline membrane disease/RDS	605,970	3,926	6.6	6.5	6.3	6.3	7.0	7.8	10.5	13,771
Meconium aspiration syndrome	605,970	1,689	2.9	2.6	2.7	2.9	3.1	3.4	3.1	13,771
Assisted ventilation less than 30 minutes ⁶	567,257	10,942	19.8	20.0	19.4	19.4	20.7	20.3	22.1	14,724
Assisted ventilation 30 minutes or longer ⁶	567,257	6,754	12.2	12.1	11.0	11.9	13.2	16.0	18.3	14,724
Seizures	605,970	368	0.6	0.6	0.6	0.6	0.6	0.6	*	13,771

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

0.0 Quantity more than zero but less than 0.05.

¹ Total number of births to residents of areas reporting specified condition.² No response reported for the abnormal conditions item.³ Includes races other than white and black.⁴ Nebraska and Texas do not report this condition.⁵ Wisconsin does not report this condition.⁶ New York City does not report this condition.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 1999

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

Congenital anomaly and race of mother	All births ¹	Congenital anomaly reported	Age of mother							Not stated ²
			All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years	
All races ³										
Anencephalus	3,932,226	423	11.0	13.1	10.1	12.0	8.6	12.0	*	73,470
Spina bifida/Meningocele	3,932,226	776	20.1	21.4	20.8	21.8	17.2	17.5	27.0	73,470
Hydrocephalus	3,932,226	831	21.5	27.1	22.1	21.1	19.4	18.7	25.9	73,470
Microcephalus	3,932,226	229	5.9	5.9	6.2	5.0	5.7	8.0	*	73,470
Other central nervous system anomalies	3,932,226	772	20.0	24.6	21.1	18.6	16.8	22.0	*	73,470
Heart malformations	3,932,226	4,624	119.8	99.5	113.0	113.6	118.6	156.3	217.4	73,470
Other circulatory/respiratory anomalies	3,932,226	5,426	140.6	149.7	138.2	128.4	138.5	160.6	191.6	73,470
Rectal atresia/stenosis	3,932,226	348	9.0	8.7	9.3	8.2	8.6	10.4	*	73,470
Tracheo-esophageal fistula/Esophageal atresia	3,932,226	513	13.3	14.0	11.4	11.2	14.0	17.5	28.2	73,470
Omphalocele/Gastroschisis	3,932,226	1,164	30.2	73.6	39.9	19.9	14.5	19.6	*	73,470
Other gastrointestinal anomalies	3,932,226	1,150	29.8	34.1	29.2	26.7	27.8	35.4	43.5	73,470
Malformed genitalia	3,932,226	2,946	76.3	76.3	74.4	76.3	77.0	80.3	72.9	73,470
Renal agenesis	3,932,226	528	13.7	14.4	14.2	13.0	14.5	11.1	*	73,470
Other urogenital anomalies	3,932,226	3,822	99.0	91.2	94.4	98.5	106.3	103.2	106.9	73,470
Cleft lip/palate	3,932,226	3,123	80.9	83.6	87.6	80.2	72.7	79.1	94.0	73,470
Polydactyly/Syndactyly/Adactyly	3,932,226	3,392	87.9	115.2	104.2	79.9	69.6	79.1	84.6	73,470
Clubfoot	3,932,226	2,150	55.7	65.3	58.8	53.7	48.2	56.4	65.8	73,470
Diaphragmatic hernia	3,932,226	504	13.1	12.1	14.6	12.1	13.8	12.0	*	73,470
Other musculoskeletal/integumental anomalies	3,932,226	9,258	239.9	251.1	237.4	225.9	240.2	260.0	277.3	73,470
Down's syndrome	3,932,226	1,754	45.5	20.6	22.1	26.1	41.3	119.5	358.4	73,470
Other chromosomal anomalies	3,932,226	1,424	36.9	28.4	30.4	29.0	34.6	66.1	132.8	73,470
White										
Anencephalus	3,109,637	338	11.1	15.3	10.7	11.6	8.6	11.2	*	56,011
Spina bifida/Meningocele	3,109,637	638	20.9	23.2	22.0	23.2	17.4	16.7	*	56,011
Hydrocephalus	3,109,637	656	21.5	29.2	22.2	21.9	18.5	18.4	*	56,011
Microcephalus	3,109,637	174	5.7	*	5.5	5.4	5.1	7.8	*	56,011
Other central nervous system anomalies	3,109,637	635	20.8	27.1	22.8	18.3	17.3	23.0	*	56,011
Heart malformations	3,109,637	3,683	120.6	98.0	116.1	113.0	122.0	148.8	214.3	56,011
Other circulatory/respiratory anomalies	3,109,637	4,206	137.7	156.1	138.3	124.8	134.6	147.6	185.3	56,011
Rectal atresia/stenosis	3,109,637	296	9.7	7.2	10.6	8.4	9.7	11.5	*	56,011
Tracheo-esophageal fistula/Esophageal atresia	3,109,637	435	14.2	15.6	11.8	11.7	14.9	18.7	34.7	56,011
Omphalocele/Gastroschisis	3,109,637	876	28.7	79.4	39.7	18.6	12.6	15.8	*	56,011
Other gastrointestinal anomalies	3,109,637	914	29.9	37.0	29.8	25.9	27.8	34.5	46.3	56,011
Malformed genitalia	3,109,637	2,481	81.2	84.2	80.6	82.2	78.9	84.4	70.9	56,011
Renal agenesis	3,109,637	430	14.1	14.1	15.0	13.4	15.4	10.9	*	56,011
Other urogenital anomalies	3,109,637	3,205	105.0	98.6	101.7	102.4	112.1	106.6	118.7	56,011
Cleft lip/palate	3,109,637	2,684	87.9	96.5	99.0	85.9	75.7	85.0	97.0	56,011
Polydactyly/Syndactyly/Adactyly	3,109,637	1,892	62.0	73.4	70.3	57.9	53.6	61.2	60.8	56,011
Clubfoot	3,109,637	1,854	60.7	74.0	65.1	58.5	52.7	58.6	72.4	56,011
Diaphragmatic hernia	3,109,637	416	13.6	13.5	16.2	11.7	14.1	12.6	*	56,011
Other musculoskeletal/integumental anomalies	3,109,637	5,729	187.6	187.3	185.4	178.1	191.7	203.6	207.0	56,011
Down's syndrome	3,109,637	1,534	50.2	20.7	25.0	29.0	46.8	125.2	379.3	56,011
Other chromosomal anomalies	3,109,637	1,179	38.6	29.5	30.7	31.6	34.5	70.1	137.5	56,011

See footnotes at end of table.

Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 1999 --Con.

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

Congenital anomaly and race of mother	All births ¹	Congenital anomaly reported	Age of mother							Not stated ²	
			All ages	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years		
Black											
Anencephalus	605,473	65	10.9	*	*	*	*	*	*	*	8,593
Spina bifida/Meningocele	605,473	116	19.4	17.0	17.9	15.4	24.4	*	*	*	8,593
Hydrocephalus	605,473	139	23.3	20.3	22.1	18.3	28.8	*	*	*	8,593
Microcephalus	605,473	40	6.7	*	*	*	*	*	*	*	8,593
Other central nervous system anomalies	605,473	95	15.9	16.2	15.8	19.0	*	*	*	*	8,593
Heart malformations	605,473	731	122.5	94.0	105.7	128.0	114.3	231.6	284.6	*	8,593
Other circulatory/respiratory anomalies	605,473	820	137.4	117.6	126.7	135.3	152.0	203.7	*	*	8,593
Rectal atresia/stenosis	605,473	40	6.7	*	*	*	*	*	*	*	8,593
Tracheo-esophageal fistula/Esophageal atresia	605,473	59	9.9	*	*	*	*	*	*	*	8,593
Omphalocele/Gastroschisis	605,473	237	39.7	55.9	37.9	31.5	34.4	47.2	*	*	8,593
Other gastrointestinal anomalies	605,473	188	31.5	29.2	26.3	37.3	28.8	45.0	*	*	8,593
Malformed genitalia	605,473	297	49.8	49.5	47.3	41.0	63.2	53.6	*	*	8,593
Renal agenesis	605,473	76	12.7	*	12.6	*	*	*	*	*	8,593
Other urogenital anomalies	605,473	418	70.0	66.5	64.1	75.3	72.1	83.6	*	*	8,593
Cleft lip/palate	605,473	260	43.6	47.8	37.3	41.7	44.4	55.8	*	*	8,593
Polydactyly/Syndactyly/Adactyly	605,473	1,386	232.2	231.9	241.8	228.9	214.1	225.2	294.8	*	8,593
Clubfoot	605,473	215	36.0	39.7	38.9	32.2	25.5	45.0	*	*	8,593
Diaphragmatic hernia	605,473	65	10.9	*	*	*	*	*	*	*	8,593
Other musculoskeletal/integumental anomalies	605,473	1,995	334.2	296.7	299.1	328.4	389.4	456.8	477.8	*	8,593
Down's syndrome	605,473	153	25.6	21.1	12.6	*	*	87.9	294.8	*	8,593
Other chromosomal anomalies	605,473	154	25.8	18.6	23.7	15.4	33.3	47.2	*	*	8,593

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

¹ Total number of births.² No response reported for the congenital anomalies item.³ Includes races other than white and black.

NOTES: Excludes data for New Mexico, which did not report congenital anomalies. Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 50. Live births by plurality of birth and ratios, by age and race and Hispanic origin of mother: United States, 1999

Plurality and race and Hispanic origin of mother	All ages	Age of mother									
		Under 15 years	15-19 years			20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-54 years
			Total	15-17 years	18-19 years						
Number											
All live births											
All races ¹	3,959,417	9,054	476,050	163,588	312,462	981,929	1,078,252	892,400	434,294	83,090	4,348
White, total	3,132,501	4,739	337,888	111,624	226,264	748,371	873,654	739,948	356,959	67,419	3,523
White, non-Hispanic	2,346,450	2,048	212,923	63,520	149,403	514,386	663,569	600,830	294,590	55,175	2,929
Black, total	605,970	3,977	121,166	45,919	75,247	193,211	138,868	91,486	47,277	9,564	421
Black, non-Hispanic	588,981	3,890	118,285	44,851	73,434	188,247	134,784	88,403	45,746	9,223	403
Hispanic ²	764,339	2,725	124,677	48,229	76,448	231,475	203,985	131,369	58,146	11,440	522
Live births in single deliveries											
All races ¹	3,837,789	8,971	468,714	161,326	307,388	959,878	1,046,105	857,548	413,996	79,035	3,542
White, total	3,035,757	4,696	333,192	110,189	223,003	733,193	847,912	710,358	339,701	63,899	2,806
White, non-Hispanic	2,266,577	2,029	209,859	62,695	147,164	503,223	642,497	575,262	279,412	52,033	2,262
Black, total	586,027	3,937	118,755	45,172	73,583	186,985	133,700	87,831	45,195	9,232	392
Black, non-Hispanic	569,500	3,854	115,923	44,125	71,798	182,138	129,731	84,838	43,728	8,909	379
Hispanic ²	748,368	2,701	123,045	47,609	75,436	227,502	199,538	127,725	56,264	11,109	484
Live births in twin deliveries											
All races ¹	114,307	83	7,270	2,239	5,031	21,640	30,494	31,926	18,485	3,699	710
White, total	90,191	43	4,655	1,421	3,234	14,880	24,257	26,903	15,622	3,195	636
White, non-Hispanic	73,964	19	3,038	817	2,221	10,924	19,741	23,124	13,673	2,847	598
Black, total	19,374	40	2,386	738	1,648	6,125	5,022	3,502	1,966	310	23
Black, non-Hispanic	18,920	36	2,337	717	1,620	6,011	4,909	3,412	1,902	292	21
Hispanic ²	15,388	24	1,617	614	1,003	3,913	4,308	3,434	1,762	304	26
Live births in higher-order multiple deliveries ³											
All races ¹	7,321	-	66	23	43	411	1,653	2,926	1,813	356	96
White, total	6,553	-	41	14	27	298	1,485	2,687	1,636	325	81
White, non-Hispanic	5,909	-	26	8	18	239	1,331	2,444	1,505	295	69
Black, total	569	-	25	9	16	101	146	153	116	22	6
Black, non-Hispanic	561	-	25	9	16	98	144	153	116	22	3
Hispanic ²	583	-	15	6	9	60	139	210	120	27	12
Ratio per 1,000 live births											
All multiple births											
All races ¹	30.7	9.2	15.4	13.8	16.2	22.5	29.8	39.1	46.7	48.8	185.4
White, total	30.9	9.1	13.9	12.9	14.4	20.3	29.5	40.0	48.3	52.2	203.5
White, non-Hispanic	34.0	*	14.4	13.0	15.0	21.7	31.8	42.6	51.5	56.9	227.7
Black, total	32.9	10.1	19.9	16.3	22.1	32.2	37.2	40.0	44.0	34.7	68.9
Black, non-Hispanic	33.1	9.3	20.0	16.2	22.3	32.5	37.5	40.3	44.1	34.0	59.6
Hispanic ²	20.9	8.8	13.1	12.9	13.2	17.2	21.8	27.7	32.4	28.9	72.8
Twin births											
All races ¹	28.9	9.2	15.3	13.7	16.1	22.0	28.3	35.8	42.6	44.5	163.3
White, total	28.8	9.1	13.8	12.7	14.3	19.9	27.8	36.4	43.8	47.4	180.5
White, non-Hispanic	31.5	*	14.3	12.9	14.9	21.2	29.7	38.5	46.4	51.6	204.2
Black, total	32.0	10.1	19.7	16.1	21.9	31.7	36.2	38.3	41.6	32.4	54.6
Black, non-Hispanic	32.1	9.3	19.8	16.0	22.1	31.9	36.4	38.6	41.6	31.7	52.1
Hispanic ²	20.1	8.8	13.0	12.7	13.1	16.9	21.1	26.1	30.3	26.6	49.8
Ratio per 100,000 live births											
Higher-order multiple births ³											
All races ¹	184.9	*	13.9	14.1	13.8	41.9	153.3	327.9	417.5	428.5	2207.9
White, total	209.2	*	12.1	*	11.9	39.8	170.0	363.1	458.3	482.1	2299.2
White, non-Hispanic	251.8	*	12.2	*	*	46.5	200.6	406.8	510.9	534.7	2355.8
Black, total	93.9	*	20.6	*	*	52.3	105.1	167.2	245.4	230.0	*
Black, non-Hispanic	95.2	*	21.1	*	*	52.1	106.8	173.1	253.6	238.5	*
Hispanic ²	76.3	*	*	*	*	25.9	68.1	159.9	206.4	236.0	*

- Quantity zero.

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

¹ Includes races other than white and black and origin not stated.² Includes all persons of Hispanic origin of any race.³ Births in greater than twin deliveries.

Technical notes

Source of data

Data shown in this report for 1999 are based on 100 percent of the birth certificates in all States and the District of Columbia. The data are provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program (VSCP). In 1984 and earlier years, the VSCP included varying numbers of States that provided data based on 100 percent of their birth certificates. Data for States not in the VSCP were based on a 50-percent sample of birth certificates filed in those States. Information on sampling procedures and sampling errors for 1984 and earlier years is provided in the annual report, *Vital Statistics of the United States, Volume I, Natality, Technical Appendix (4)*. Information on the percent of records with missing information for maternal and infant characteristics included in this report is shown by State in [table I](#). Data are not shown for the variables race, age, and marital status of mother. Missing data are imputed in these cases; see separate sections in the [Technical notes](#) for more information.

Age of mother

Age of mother is computed in most cases from the mother's and infant's dates of birth as reported on the birth certificate. The mother's age is directly reported by five States (Kentucky, Nevada, North Dakota, Virginia, Wyoming), and American Samoa. From 1964 to 1996, mother's age was edited for ages 10–49 years. Births reported to occur to mothers younger than age 10 or older than age 49 years had age imputed according to the age of mother from the previous record with the same race and total birth order (total of live births and fetal deaths). Beginning in 1997, age of mother is edited for ages 10–54 years. A review and verification of unedited birth data for 1996 showed that the vast majority of births reported as occurring to women aged 50 years and over were to women aged 50–54 years. The numbers of births to women aged 50–54 years are too small for computing age-specific birth rates. These births have been included with births to women aged 45–49 years for computing birth rates.

In 1999 age of mother was not reported on 0.02 percent of the records; for these records age of mother was imputed according to the last record with the same race and total birth order.

Race and Hispanic origin

Race and Hispanic origin are reported separately on the birth certificate. Beginning with the 1989 data year, NCHS started tabulating its birth data primarily by race of the mother. In 1988 and prior years, births were tabulated by the race of the child, which was determined from the race of the parents as entered on the birth certificate.

Trend data by race shown in this report are by race of mother for all years beginning with the 1980 data year. In order to facilitate continuity and analysis of the data, trend tables showing data for years prior to 1980 show data for both race of mother and race of child for 1980. This makes it possible to distinguish the effects of this change from real changes in the data. The text discussions of data by race are based on tabulations by race of mother. Text references to white births and white mothers or black births and black mothers are used interchangeably for ease in writing.

The factors influencing the decision to tabulate births by race of the mother have been discussed in detail elsewhere (92). They include the 1989 revision of the birth certificate, which includes many more health questions that are directly associated with the mother. In these instances, it is more appropriate to tabulate births by the mother's race. A second factor has been the increasing incidence of interracial parentage. In 1999, 5.3 percent of births were to parents of different races compared with just 2.2 percent 20 years earlier. A third factor influencing the decision to tabulate births by race of mother is the large proportion of births with race of father not stated, 14 percent in 1999. Although this proportion declined slightly in the 1990's, it is still higher than in 1979, 11 percent. The high proportion of records with the father's race not reported reflects the increase in the proportion of births to unmarried women; in many such cases, no information is reported on the father. These births are already assigned the race of the mother because there is no alternative. Tabulating all births by race of mother, therefore, provides for a more uniform approach, rather than a necessarily arbitrary combination of parental races.

Race of mother is reported by all registration areas in eight categories: white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and "other" Asian or Pacific Islander (API). In addition, 11 States (California, Hawaii, Illinois, Minnesota, Missouri, New Jersey, New York, Texas, Virginia, Washington, and West Virginia) report data on API subgroups included in the "other" API category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API). A report on births in 1992 to women in these API subgroups has been published (93).

In 1999 race of mother was not reported for 0.6 percent of births. In these cases, if the race of the father was known, the race of the father was assigned to the mother. When information was not available for either parent, the race of the mother was imputed according to the specific race of the mother on the preceding record with a known race of mother. This was necessary for just 0.4 percent of births in 1999.

Hispanic origin and race are reported independently on the birth certificate, as noted previously. Data for Hispanic subgroups are shown in most cases for five groups: Mexican, Puerto Rican, Cuban, Central and South American, and other (and unknown) Hispanic. In tabulations of birth data by race only, data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race. In tabulations of birth data by race and Hispanic origin, data for persons of Hispanic origin are not further classified by race because the vast majority of births to Hispanic women are reported as white (97 percent in 1999). In these tabulations, data for non-Hispanic persons are classified according to the race of the mother because there are substantial differences in fertility and maternal and infant health between Hispanic and non-Hispanic white women.

Items asking for the Hispanic origin of the mother and the father have been included on the birth certificates of all States and the District of Columbia, the Virgin Islands, and Guam since 1993 (5). Puerto Rico, American Samoa, and the Northern Marianas do not collect this information. The percent of records for which Hispanic origin of the parents was not reported in 1999 is shown by State in [table I](#).

Marital status

National estimates of births to unmarried women are based on two methods of determining marital status. For 1994 through 1996, birth certificates in 45 states and the District of Columbia included a

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1999

[By place of residence]

Area	All births	Place of birth	Attendant at birth	Mother's birth-place	Father's age	Father's race	Hispanic origin		Educational attainment of mother	Live-birth order	Length of gestation	Month prenatal care began	Number of prenatal visits
							Mother	Father					
Total of reporting areas ¹	3,959,417	0.0	0.0	0.3	14.0	14.6	1.2	14.9	1.6	0.5	1.1	2.9	3.9
Alabama	62,122	-	0.0	0.1	22.7	22.8	0.1	22.7	0.3	0.0	0.1	0.3	0.7
Alaska	9,950	0.0	0.1	0.4	12.7	15.1	0.5	13.4	2.2	0.3	0.2	1.9	1.7
Arizona	81,145	0.0	0.0	0.2	19.7	21.7	1.3	21.7	2.4	0.3	0.2	2.5	4.7
Arkansas	36,729	0.0	0.0	0.1	19.6	21.8	0.1	20.9	1.0	0.1	0.2	2.4	2.6
California	518,508	0.0	0.0	0.3	7.2	6.8	0.6	6.2	1.5	0.1	² 5.7	1.6	3.1
Colorado	62,167	-	-	0.3	9.0	9.4	0.1	9.5	1.0	0.1	0.0	0.7	0.9
Connecticut	43,310	0.0	0.0	0.2	10.9	12.3	5.1	15.6	3.4	7.1	0.2	3.3	6.3
Delaware	10,676	-	0.5	0.2	31.6	32.3	0.1	31.5	0.5	0.1	0.1	0.8	1.0
District of Columbia	7,522	-	-	0.1	43.5	51.0	0.7	43.4	9.2	0.1	0.6	16.8	19.7
Florida	197,023	0.0	0.0	0.1	17.3	17.6	0.1	18.9	0.6	0.0	0.1	0.9	2.0
Georgia	126,717	0.0	0.0	0.2	17.6	18.1	1.2	18.4	2.3	0.5	0.2	3.7	3.4
Hawaii	17,038	-	0.0	0.1	8.9	9.1	0.1	9.2	0.7	0.0	3.4	3.8	4.4
Idaho	19,872	-	0.0	0.2	8.3	11.5	0.4	11.1	2.3	0.1	0.2	1.5	2.0
Illinois	182,068	0.0	0.0	0.1	14.4	15.8	0.1	15.9	1.0	0.1	0.2	2.1	2.5
Indiana	86,031	0.0	0.1	0.2	13.3	13.4	0.4	13.6	0.9	0.2	0.1	1.3	2.6
Iowa	37,558	0.0	0.0	0.4	11.9	13.7	1.0	14.6	1.5	0.1	0.1	1.1	3.2
Kansas	38,782	-	0.0	0.1	10.5	10.7	0.9	11.9	0.3	0.0	0.1	0.6	0.8
Kentucky	54,403	-	0.1	0.0	19.5	22.2	0.1	23.1	0.2	0.1	0.1	1.0	1.2
Louisiana	67,136	0.0	0.0	0.0	21.3	21.5	0.6	21.8	0.0	0.0	0.0	0.3	0.6
Maine	13,616	-	0.0	-	9.6	14.1	5.1	18.1	0.8	0.3	0.1	0.5	0.5
Maryland	71,967	0.0	0.0	0.6	7.7	9.2	0.4	6.6	1.9	0.3	0.5	3.8	6.6
Massachusetts	80,939	-	0.0	0.0	7.7	7.6	0.6	6.8	0.4	0.4	0.4	1.2	0.5
Michigan	133,607	0.0	0.1	0.1	15.4	17.6	5.9	22.2	1.7	0.4	0.3	4.1	5.6
Minnesota	65,970	-	-	0.1	8.5	10.9	5.2	15.3	2.2	0.4	0.9	6.4	5.7
Mississippi	42,684	0.0	0.0	0.1	23.1	22.9	0.1	23.3	0.3	0.1	0.2	0.6	1.7
Missouri	75,432	-	-	0.2	17.9	18.5	0.1	18.3	0.7	0.4	0.1	1.8	2.8
Montana	10,785	0.0	0.1	0.0	9.4	10.5	1.4	11.5	0.4	0.0	0.1	0.4	0.3
Nebraska	23,907	-	0.0	0.0	11.8	12.8	2.4	13.9	0.1	-	0.0	0.3	0.6
Nevada	29,362	0.0	0.0	1.0	20.8	21.7	1.4	20.3	3.5	1.1	1.0	8.4	10.9
New Hampshire	14,041	-	-	0.0	6.3	8.8	3.9	13.2	1.1	2.4	0.3	1.5	1.6
New Jersey	114,105	0.0	0.0	0.2	9.0	11.3	0.4	9.4	2.6	0.1	0.1	5.4	6.8
New Mexico	27,191	-	-	2.7	28.6	28.0	0.0	28.0	4.5	0.5	0.5	7.3	5.8
New York	255,612	0.1	0.0	0.4	14.9	15.2	4.9	18.8	1.9	0.1	0.4	9.6	6.7
North Carolina	113,795	-	0.0	0.0	16.8	16.8	0.0	16.8	0.2	0.1	0.1	0.7	0.7
North Dakota	7,639	0.0	0.0	-	8.4	9.0	3.4	12.1	0.2	0.1	0.1	0.4	0.4
Ohio	152,584	0.0	0.0	2.0	15.1	17.0	0.4	12.3	0.7	0.3	0.1	1.2	2.4
Oklahoma	49,010	-	0.1	0.1	17.8	19.2	2.0	19.3	1.8	1.5	4.8	11.2	13.9
Oregon	45,204	-	-	0.2	11.3	5.1	0.8	6.0	1.8	0.1	0.0	0.4	0.7
Pennsylvania	145,347	0.0	0.0	0.9	5.5	4.2	0.5	3.6	2.7	0.5	0.3	3.8	6.0
Rhode Island	12,366	-	-	0.5	13.6	14.4	13.8	24.2	2.9	1.6	1.3	4.9	5.6

See footnotes at end of table.

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1999—Con.

[By place of residence]

Area	All births	Place of birth	Attendant at birth	Mother's birth-place	Father's age	Father's race	Hispanic origin		Educational attainment of mother	Live-birth order	Length of gestation	Month prenatal care began	Number of prenatal visits
							Mother	Father					
South Carolina	54,948	0.0	0.0	0.3	28.0	28.0	0.1	28.0	4.5	0.1	0.2	1.5	1.7
South Dakota	10,524	0.0	—	0.0	12.7	12.8	0.1	13.1	0.2	0.0	0.0	0.2	0.3
Tennessee	77,803	—	0.0	0.1	15.8	16.0	0.0	16.1	0.2	0.2	0.3	1.4	1.1
Texas	349,245	0.0	0.0	0.4	15.2	15.3	0.4	15.3	1.7	1.3	0.7	2.1	5.8
Utah	46,290	0.0	0.0	0.2	8.7	9.6	0.2	9.0	1.0	0.4	0.1	4.9	5.6
Vermont	6,567	—	—	0.1	9.1	14.8	2.2	16.1	2.6	0.5	0.1	4.1	2.0
Virginia	95,469	—	0.1	0.1	17.8	19.1	0.2	17.8	0.7	0.0	0.1	0.3	0.5
Washington	79,586	0.0	0.2	0.4	10.0	13.8	4.4	15.1	10.1	3.7	2.2	9.5	13.8
West Virginia	20,728	0.2	0.0	0.1	12.6	13.4	0.2	13.4	0.8	0.1	0.4	4.5	3.3
Wisconsin	68,208	—	0.0	0.1	28.8	28.8	0.0	28.8	0.2	0.0	0.0	0.2	0.3
Wyoming	6,129	—	—	0.0	14.2	14.8	0.0	14.3	0.5	0.0	0.0	0.7	1.1
Puerto Rico	59,563	—	0.1	—	3.0	3.8	—	—	0.4	0.0	0.1	0.4	0.1
Virgin Islands	1,671	—	0.1	—	24.8	26.5	4.4	27.5	2.6	0.6	1.1	0.7	2.9
Guam	4,021	0.0	1.0	0.4	22.9	23.9	1.2	25.4	0.6	1.0	0.3	0.5	0.9
American Samoa	1,736	0.1	—	36.6	35.5	35.8	—	—	—	—	—	—	—
Commonwealth of the Northern Marianas Islands	1,381	0.1	0.2	0.1	6.4	8.5	—	—	15.1	14.4	12.5	15.5	13.3

See footnotes at end of table.

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1999—Con.

[By place of residence]

Area	All births	Birth-weight	5-minute Apgar score	Medical risk factors	Tobacco use	Alcohol use	Weight gain	Obstetric procedures	Complications of labor and/or delivery	Method of delivery	Abnormal conditions of newborn	Congenital anomalies
Total of reporting areas ¹	3,959,417	0.1	0.5	1.6	1.4	1.7	8.4	1.1	1.3	0.8	2.5	1.9
Alabama	62,122	0.1	0.3	0.0	0.0	0.1	3.4	0.0	0.0	0.3	0.0	0.0
Alaska	9,950	0.4	0.6	0.7	0.6	0.8	2.5	0.4	0.6	0.5	0.7	0.9
Arizona	81,145	0.1	0.4	0.0	1.3	1.5	11.9	0.0	0.0	0.3	0.0	0.4
Arkansas	36,729	0.1	3.4	0.2	0.4	0.5	7.5	0.2	0.2	0.5	0.2	0.2
California	518,508	0.0	---	0.0	---	---	---	0.0	0.0	0.0	0.0	0.0
Colorado	62,167	0.0	0.3	0.0	0.1	0.1	2.9	—	—	—	—	0.1
Connecticut	43,310	0.0	1.5	9.8	5.7	6.0	18.4	9.3	10.2	0.9	15.9	16.8
Delaware	10,676	0.0	0.3	0.0	0.3	0.3	1.6	0.0	0.0	—	0.1	0.0
District of Columbia	7,522	0.2	1.1	0.0	0.0	0.0	17.5	—	0.0	0.0	0.0	0.0
Florida	197,023	0.0	0.2	0.0	0.1	0.1	4.8	0.0	0.0	0.6	0.0	0.0
Georgia	126,717	0.0	0.5	0.3	0.5	0.5	8.2	0.0	0.0	0.4	0.0	0.0
Hawaii	17,038	0.9	1.2	19.6	0.1	0.1	12.5	11.8	10.1	0.5	21.5	23.3
Idaho	19,872	0.1	0.5	0.2	0.5	0.6	7.1	0.2	0.2	0.4	0.5	0.5
Illinois	182,068	0.1	0.3	0.0	0.2	0.1	4.2	0.0	0.0	0.4	0.0	0.1
Indiana	86,031	0.4	0.4	0.2	³ 0.3	0.3	2.8	0.1	0.2	0.5	0.7	0.7
Iowa	37,558	0.0	0.3	0.1	2.2	2.6	6.7	0.1	0.1	0.5	0.1	0.1
Kansas	38,782	0.0	0.4	⁴ 0.5	0.5	0.5	0.6	0.4	0.4	1.2	0.4	0.4
Kentucky	54,403	0.1	0.4	5.3	3.8	4.4	8.5	4.0	6.1	4.2	13.0	11.9
Louisiana	67,136	0.0	0.3	0.1	0.1	0.1	5.9	0.1	0.1	0.1	0.1	0.1
Maine	13,616	0.1	0.2	0.1	1.7	2.1	1.7	0.0	0.0	0.2	0.1	0.1
Maryland	71,967	0.0	0.4	0.0	0.4	0.6	6.6	0.0	0.0	0.2	0.0	0.0
Massachusetts	80,939	0.5	0.5	1.0	0.4	0.4	1.1	1.0	1.0	0.7	1.3	1.3
Michigan	133,607	0.3	0.5	0.1	2.1	2.1	9.6	0.1	0.1	0.5	0.1	0.3
Minnesota	65,970	0.1	0.6	7.2	6.6	6.7	18.2	5.8	6.7	3.3	7.5	7.9
Mississippi	42,684	0.1	0.3	0.1	0.2	0.3	5.1	0.0	0.1	0.3	0.1	0.1
Missouri	75,432	0.0	0.5	0.1	0.3	0.4	2.9	0.1	0.1	0.6	0.1	0.1
Montana	10,785	0.0	0.4	0.1	0.9	1.4	1.7	0.1	0.1	0.3	0.1	0.2
Nebraska	23,907	0.0	0.2	0.0	0.8	0.8	1.7	0.0	0.0	0.3	0.1	0.0
Nevada	29,362	0.1	1.4	9.4	2.0	2.2	11.8	1.2	6.4	0.8	11.2	11.7
New Hampshire	14,041	0.3	0.4	0.1	0.3	0.3	4.1	0.1	0.1	0.3	0.1	0.1
New Jersey	114,105	0.1	0.3	1.2	0.6	0.8	7.2	0.1	0.8	0.4	24.8	1.7
New Mexico	27,191	0.3	3.3	0.1	2.4	2.4	11.1	0.0	0.0	0.6	0.2	---
New York	255,612	0.1	0.2	1.3	³ 0.2	0.2	9.7	0.2	0.4	0.3	⁷ 0.9	0.9
North Carolina	113,795	0.1	0.4	0.0	0.2	0.2	2.5	0.0	0.0	0.4	0.0	0.0
North Dakota	7,639	0.1	0.3	0.4	0.7	1.2	1.6	0.3	0.3	1.3	0.6	0.5
Ohio	152,584	0.1	0.2	0.1	0.4	0.4	2.8	0.1	0.1	0.6	0.1	0.1
Oklahoma	49,010	0.6	6.1	37.9	28.7	29.0	37.9	33.9	37.0	28.9	40.9	41.2
Oregon	45,204	0.0	0.5	1.0	0.9	1.0	3.3	0.0	0.0	0.3	0.1	0.1
Pennsylvania	145,347	0.1	0.4	0.1	0.6	0.7	9.3	0.0	0.0	0.0	0.6	0.5
Rhode Island	12,366	0.5	0.4	6.8	2.8	2.9	12.3	6.5	6.6	0.4	14.7	14.7

See footnotes at end of table.

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1999—Con.

[By place of residence]

Area	All births	Birth-weight	5-minute Apgar score	Medical risk factors	Tobacco use	Alcohol use	Weight gain	Obstetric procedures	Complications of labor and/or delivery	Method of delivery	Abnormal conditions of newborn	Congenital anomalies
South Carolina	54,948	0.0	0.3	0.0	0.2	0.2	2.6	0.0	0.0	0.4	0.0	0.0
South Dakota	10,524	0.0	0.4	0.1	---	---	1.1	0.1	0.0	0.1	0.0	0.0
Tennessee	77,803	0.0	0.3	0.1	0.2	0.2	5.5	0.1	0.1	0.6	0.1	0.1
Texas	349,245	0.1	---	⁵ 1.4	1.4	1.4	18.5	0.0	⁸ 0.0	0.9	⁶ 0.3	0.4
Utah	46,290	0.1	0.4	0.1	0.3	0.4	3.8	0.0	0.0	0.0	0.2	0.2
Vermont	6,567	0.3	0.4	0.2	0.4	0.4	1.4	0.2	0.2	0.1	0.3	0.2
Virginia	95,469	0.1	0.3	0.2	0.0	0.0	2.2	0.0	0.2	0.3	0.5	0.3
Washington	79,586	1.2	0.9	16.3	6.5	16.1	26.1	12.8	15.5	0.5	20.3	17.8
West Virginia	20,728	0.1	0.3	1.0	1.5	3.2	8.9	0.2	1.3	0.4	2.6	2.5
Wisconsin	68,208	0.0	0.4	0.1	0.1	0.1	1.8	0.1	0.1	0.0	⁹ 0.1	0.1
Wyoming	6,129	0.0	0.5	0.0	1.1	1.2	2.6	0.0	0.0	0.2	0.0	0.0
Puerto Rico	59,563	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1
Virgin Islands	1,671	0.2	3.3	7.2	1.7	1.8	7.8	2.0	8.2	2.7	8.0	7.4
Guam	4,021	0.2	1.6	2.8	0.8	0.9	5.1	1.1	3.5	0.6	2.9	2.8
American Samoa	1,736	—	---	---	---	---	---	---	---	---	---	---
Commonwealth of the Northern Marianas Islands	1,381	5.8	10.4	---	¹⁰ 16.0	¹⁰ 16.1	---	---	---	9.8	---	---

0.0 Quantity more than zero but less than 0.05.

--- Data not available.

— Quantity zero.

¹Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas.

²California reports date last normal menses began but does not report clinical estimate of gestation.

³Indiana and New York State report tobacco use but do not report the average number of cigarettes smoked per day in standard categories; data for New York City are reported in standard categories.

⁴Kansas does not report Rh sensitization.

⁵Texas does not report genital herpes and uterine bleeding.

⁶Nebraska and Texas do not report birth injury.

⁷New York City does not report assisted ventilation less than 30 minutes and assisted ventilation of 30 minutes or more.

⁸Texas does not report anesthetic complications and fetal distress.

⁹Wisconsin does not report fetal alcohol syndrome.

¹⁰The Commonwealth of the Northern Marianas reports tobacco and alcohol use, but does not report the average number of cigarettes smoked per day or the average number of drinks per day.

question about the mother's marital status. Beginning in 1997, the marital status of women giving birth in California and Nevada is determined by a direct question in the birth registration process. Beginning June 15, 1998, Connecticut discontinued inferring the mother's marital status and added a direct question on mother's marital status to the State's birth certificate.

In the two States (Michigan and New York) that use inferential procedures to compile birth statistics by marital status in 1999, a birth is inferred as nonmarital if either of these factors, listed in priority-of-use order, is present: a paternity acknowledgment was received or the father's name is missing. In recent years, a number of States have extended their efforts to identify the fathers when the parents are not married in order to enforce child support obligations. The presence of a paternity acknowledgment therefore is the most reliable indicator that the birth is nonmarital in the States not reporting this information directly; this is now the key indicator in the nonreporting States. The inferential procedures in effect since 1980 represent a substantial departure from the method used before 1980 to prepare national estimates of births to unmarried women, which assumed that the incidence of births to unmarried women in States with no direct question on marital status was the same as the incidence in reporting States in the same geographic division (24, 94).

Because of the continued substantial increases in nonmarital childbearing throughout the 1980's and early 1990's, along with the changes in reporting procedures throughout the last two decades, the data have been intensively evaluated by the Division of Vital Statistics, NCHS. The results of this evaluation show that trends in birth rates for unmarried women computed on the basis of estimated data and on the basis of inferred data are essentially the same. Details of the changes in reporting procedures are described in previous reports (24, 94).

The mother's marital status was not reported in 1999 on 0.03 percent of the birth records in the 48 States and the District of Columbia where this information is obtained by a direct question. Marital status was imputed as "married" for these records.

Tobacco use

Beginning in 1999, data on whether or not the mother smoked during pregnancy is available for the District of Columbia and all States except for California and South Dakota. These areas comprised 87 percent of U.S. births in 1999. Data on the number of cigarettes smoked daily were available in a comparable format for 46 States, the District of Columbia, and New York City. Indiana and New York State (except for New York City) reported information on number of cigarettes smoked in a format that was inconsistent with the NCHS standard (see [figure I](#)). The areas reporting on the number of cigarettes smoked comprised 82 percent of U.S. births in 1999.

Prenatal care

As a result of a programming error, the proportions presented in "Report of Final Natality Statistics, 1996" and "Births: Final Data for 1997" for the Adequacy of Prenatal Care Utilization Index (APNCU) are incorrect for levels of care other than intensive use of care (19, 20, 95). Levels for the adequate care category are only slightly different from those published previously. The corrected APNCU levels for 1990 and 1995-97 are presented in this report.

Gestation

The primary measure used to determine the gestational age of the newborn is the interval between the first day of the mother's last normal menstrual period (LMP) and the date of birth. It is subject to error for several reasons, including imperfect maternal recall or misidentification of the LMP because of postconception bleeding, delayed ovulation, or intervening early miscarriage. These data are edited for LMP-based gestational ages that are clearly inconsistent with the infant's plurality and birthweight (see below), but reporting problems for this item persist and may occur more frequently among some subpopulations and among births with shorter gestations (96, 97).

The U.S. Standard Certificate of Live Birth includes an item, "clinical estimate of gestation," that is being compared with length of gestation computed from the date the last normal menstrual period (LMP) began when the latter appears to be inconsistent with birthweight. This is done for normal weight births of apparently short gestations and very low birthweight births reported to be full term. The clinical estimate was also used if the LMP date was not reported. The period of gestation for 5.1 percent of the births in 1999 was based on the clinical estimate of gestation. For 97 percent of these records, the clinical estimate was used because the LMP date was not reported. For the remaining 3 percent, the clinical estimate was used because it was compatible with the reported birthweight, whereas the LMP-based gestation was not. In cases where the reported birthweight was inconsistent with both the LMP-computed gestation and the clinical estimate of gestation, the LMP-computed gestation was used, and birthweight was reclassified as "not stated." This was necessary for fewer than 350 births or less than 0.01 percent of all birth records in 1999. The levels of the adjustments in 1999 data were similar to those for 1998 and earlier years (21).

Birthweight

Birthweight is reported in some areas in pounds and ounces rather than in grams. However, the metric system has been used in tabulating and presenting the statistics to facilitate comparison with data published by other groups. Equivalents of the gram weights in terms of pounds and ounces are as follows:

Less than 500 grams	= 1 lb, 1 oz or less
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

Method of delivery

Several rates are computed for method of delivery. The overall cesarean section rate or *total cesarean* rate is computed as the percent of all births that were delivered by cesarean section. The *primary cesarean* rate is a measure that relates the number of women having a first cesarean delivery to all women giving birth who

<p>38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply)</p> <p>Anemia (Hct. <30/Hgb. <10) 01 <input type="checkbox"/></p> <p>Cardiac disease 02 <input type="checkbox"/></p> <p>Acute or chronic lung disease 03 <input type="checkbox"/></p> <p>Diabetes 04 <input type="checkbox"/></p> <p>Genital herpes 05 <input type="checkbox"/></p> <p>Hydramnios/Oligohydramnios 06 <input type="checkbox"/></p> <p>Hemoglobinopathy 07 <input type="checkbox"/></p> <p>Hypertension, chronic 08 <input type="checkbox"/></p> <p>Hypertension, pregnancy-associated 09 <input type="checkbox"/></p> <p>Eclampsia 10 <input type="checkbox"/></p> <p>Incompetent cervix 11 <input type="checkbox"/></p> <p>Previous infant 4000+ grams 12 <input type="checkbox"/></p> <p>Previous preterm or small-for-gestational-age infant 13 <input type="checkbox"/></p> <p>Renal disease 14 <input type="checkbox"/></p> <p>Rh sensitization 15 <input type="checkbox"/></p> <p>Uterine bleeding 16 <input type="checkbox"/></p> <p>None 00 <input type="checkbox"/></p> <p>Other _____ 17 <input type="checkbox"/></p> <p>(Specify)</p>	<p>40. COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)</p> <p>Febrile (>100°F. or 38°C.) 01 <input type="checkbox"/></p> <p>Meconium, moderate/heavy 02 <input type="checkbox"/></p> <p>Premature rupture of membrane (>12 hours) 03 <input type="checkbox"/></p> <p>Abruptio placenta 04 <input type="checkbox"/></p> <p>Placenta previa 05 <input type="checkbox"/></p> <p>Other excessive bleeding 06 <input type="checkbox"/></p> <p>Seizures during labor 07 <input type="checkbox"/></p> <p>Precipitous labor (<3 hours) 08 <input type="checkbox"/></p> <p>Prolonged labor (>20 hours) 09 <input type="checkbox"/></p> <p>Dysfunctional labor 10 <input type="checkbox"/></p> <p>Breech/Malpresentation 11 <input type="checkbox"/></p> <p>Cephalopelvic disproportion 12 <input type="checkbox"/></p> <p>Cord prolapse 13 <input type="checkbox"/></p> <p>Anesthetic complications 14 <input type="checkbox"/></p> <p>Fetal distress 15 <input type="checkbox"/></p> <p>None 00 <input type="checkbox"/></p> <p>Other _____ 16 <input type="checkbox"/></p> <p>(Specify)</p>	<p>43. CONGENITAL ANOMALIES OF CHILD (Check all that apply)</p> <p>Anencephalus 01</p> <p>Spina bifida/Meningocele 02</p> <p>Hydrocephalus 03</p> <p>Microcephalus 04</p> <p>Other central nervous system anomalies (Specify) _____ 05</p> <p>Heart malformations 06</p> <p>Other circulatory/respiratory anomalies (Specify) _____ 07</p> <p>Rectal atresia/stenosis 08</p> <p>Tracheo-esophageal fistula/ Esophageal atresia 09</p> <p>Omphalocele/ Gastroschisis 10</p> <p>Other gastrointestinal anomalies (Specify) _____ 11</p> <p>Malformed genitalia 12</p> <p>Renal agenesis 13</p> <p>Other urogenital anomalies (Specify) _____ 14</p> <p>Cleft lip/palate 15</p> <p>Polydactyly/Syndactyly/Adactyly 16</p> <p>Club foot 17</p> <p>Diaphragmatic hernia 18</p> <p>Other musculoskeletal/integumental anomalies (Specify) _____ 19</p> <p>Down's syndrome 20</p> <p>Other chromosomal anomalies (Specify) _____ 21</p> <p>None 00</p> <p>Other _____ 22</p> <p>(Specify)</p>
<p>38b. OTHER RISK FACTORS FOR THIS PREGNANCY (Complete all items)</p> <p>Tobacco use during pregnancy Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Average number cigarettes per day _____</p> <p>Alcohol use during pregnancy Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Average number drinks per week _____</p> <p>Weight gained during pregnancy _____ lbs.</p>	<p>41. METHOD OF DELIVERY (Check all that apply)</p> <p>Vaginal 01 <input type="checkbox"/></p> <p>Vaginal birth after previous C-section 02 <input type="checkbox"/></p> <p>Primary C-section 03 <input type="checkbox"/></p> <p>Repeat C-section 04 <input type="checkbox"/></p> <p>Forceps 05 <input type="checkbox"/></p> <p>Vacuum 06 <input type="checkbox"/></p>	<p>42. ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)</p> <p>Anemia (Hct. <39/Hgb. <13) 01 <input type="checkbox"/></p> <p>Birth injury 02 <input type="checkbox"/></p> <p>Fetal alcohol syndrome 03 <input type="checkbox"/></p> <p>Hyaline membrane disease/RDS 04 <input type="checkbox"/></p> <p>Meconium aspiration syndrome 05 <input type="checkbox"/></p> <p>Assisted ventilation <30 min 06 <input type="checkbox"/></p> <p>Assisted ventilation ≥30 min 07 <input type="checkbox"/></p> <p>Seizures 08 <input type="checkbox"/></p> <p>None 00 <input type="checkbox"/></p> <p>Other _____ 09 <input type="checkbox"/></p> <p>(Specify)</p>
<p>39. OBSTETRIC PROCEDURES (Check all that apply)</p> <p>Amniocentesis 01 <input type="checkbox"/></p> <p>Electronic fetal monitoring 02 <input type="checkbox"/></p> <p>Induction of labor 03 <input type="checkbox"/></p> <p>Stimulation of labor 04 <input type="checkbox"/></p> <p>Tocolysis 05 <input type="checkbox"/></p> <p>Ultrasound 06 <input type="checkbox"/></p> <p>None 00 <input type="checkbox"/></p> <p>Other _____ 07 <input type="checkbox"/></p> <p>(Specify)</p>		

Figure I. Selected maternal and infant health items from the 1989 revision of the U.S. Standard Certificate of Live Birth

have never had a cesarean delivery. The denominator for this rate includes all births less those with method of delivery classified as repeat cesarean, vaginal birth after previous cesarean, or method not stated. The rate for *vaginal birth after previous cesarean* (VBAC) delivery is computed by relating all VBAC deliveries to the sum of VBAC and repeat cesarean deliveries, that is, to women with a previous cesarean section. The proportion of cesarean deliveries among births in Hawaii in 1999 is believed to be substantially understated because of incomplete reporting of method of delivery in some hospitals.

Computations of percents, percent distributions, medians, and means

Births for which a particular characteristic is unknown were subtracted from the figures for total births that were used as denominators before percents, percent distributions, and medians were computed. The percent of records with missing information for each item is shown by State in [table I](#). The median number of prenatal visits also excludes births to mothers who had no prenatal care. Computations of the median years of school completed and the median number of prenatal visits were based on ungrouped data. The median age of mother is computed from birth rates in 5-year age groups, which eliminates the effects of changes in the age composition of the childbearing population over time. The mean age of father is computed from frequencies of births where age of father not stated

is distributed in the same proportions as births with known age for each 5 year age classification of mother. An asterisk is shown in place of any derived statistic based on fewer than 20 births in the numerator or denominator.

Population denominators

Birth and fertility rates for 1999 shown in [tables 1, 3–6, 8, 9, 13, and 14](#) are based on populations estimated as of July 1, 1999. These populations are shown in [tables II and III](#). The population estimates have been published by the U.S. Census Bureau (6) and are based on the 1990 census counts by race and age, which were modified to be consistent with Office of Management and Budget racial categories and historical categories for birth data, and in the case of age, to reflect age as of the census reference date. The modification procedures are described in detail in a census report (98).

Birth and fertility rates by State shown in [table 10](#) are based on State-level population estimates provided by the U.S. Census Bureau that are consistent with the U.S. populations (99). Rates by State shown in this report may differ from rates computed on the basis of other population estimates. Birth and fertility rates by month shown in [table 15](#) are based on monthly population estimates also based on the 1999 estimates. Rates for unmarried women shown in [tables 17 and 18](#) are based on distributions of the population by marital status as of March 1999 provided by the U.S. Census Bureau (23), which have been

Table II. Estimated total population by race, and estimated female population by age and race: United States, 1999

[Populations estimated as of July 1]

Age	All races	White	Black	American Indian	Asian or Pacific Islander
Total population	272,690,813	224,610,797	34,862,169	2,397,426	10,820,421
Female population					
15-44 years	60,107,320	48,137,939	8,638,842	576,624	2,753,915
10-14 years	9,536,777	7,495,621	1,518,163	122,247	400,746
15-19 years	9,596,926	7,578,366	1,495,511	116,732	406,317
15-17 years	5,703,781	4,500,884	882,758	72,134	248,005
18-19 years	3,893,145	3,077,482	612,753	44,598	158,312
20-24 years	8,842,537	6,995,196	1,363,289	96,464	387,588
25-29 years	9,153,808	7,215,552	1,362,369	94,172	481,715
30-34 years	9,955,716	7,942,520	1,419,010	88,606	505,580
35-39 years	11,328,875	9,201,352	1,536,944	92,576	498,003
40-44 years	11,229,458	9,204,953	1,461,719	88,074	474,712
45-49 years	9,855,557	8,158,465	1,213,898	73,738	409,456

SOURCE: U.S. Census Bureau. U.S. population estimates by age, sex, race, and Hispanic origin: 1980 to 1999. Washington, DC: U.S. Census Bureau. Internet release, April 11, 2000. http://www.census.gov/population/www/estimates/nat_90s_1.html

Table III. Estimated total population by specified Hispanic origin and estimated female population by age and specified Hispanic origin and by race for women of non-Hispanic origin: United States, 1999

[Populations estimated as of July 1]

Age	Hispanic					Non-Hispanic		
	Total	Mexican	Puerto Rican	Cuban	Other Hispanic ¹	Total ²	White	Black
Total population	31,337,161	20,488,782	2,945,172	1,344,410	6,558,797	241,353,656	196,049,405	33,092,411
Female population								
15-44 years	7,491,138	4,843,368	735,357	255,399	1,657,014	52,616,183	41,327,758	8,209,248
10-14 years	1,339,244	897,933	139,303	34,282	267,726	8,197,533	6,284,953	1,439,907
15-19 years	1,335,286	908,706	148,558	36,152	241,870	8,261,640	6,364,388	1,421,531
15-17 years	786,999	550,024	86,988	22,588	127,399	4,916,784	3,786,782	838,952
18-19 years	548,287	358,682	61,570	13,564	114,471	3,344,856	2,577,606	582,579
20-24 years	1,295,002	875,033	110,189	33,722	276,058	7,547,530	5,811,775	1,293,089
25-29 years	1,250,837	860,673	106,482	39,415	244,267	7,902,976	6,076,568	1,293,184
30-34 years	1,284,875	804,502	133,857	49,786	296,730	8,670,838	6,776,864	1,342,837
35-39 years	1,255,045	736,515	132,791	51,231	334,508	10,073,832	8,062,785	1,461,473
40-44 years	1,070,093	657,939	103,480	45,093	263,581	10,159,367	8,235,378	1,397,134
45-49 years	838,951	486,298	87,892	44,731	220,030	9,016,608	7,397,436	1,163,815

¹Includes Central and South American and other and unknown Hispanic.

²Includes races other than white and black.

SOURCE: Population estimates based on unpublished tabulations prepared by the Housing and Household Economic Statistics Division, U.S. Census Bureau. Totals for Hispanic population and non-Hispanic population by race are consistent with figures published in: U.S. Census Bureau. U.S. population estimates by age, sex, race, and Hispanic origin: 1980 to 1999. Washington, DC: U.S. Census Bureau. Internet release, April 11, 2000. http://www.census.gov/population/www/estimates/nat_90s_1.html

adjusted to July 1999 population levels (6) by the Division of Vital Statistics, NCHS (24, 94).

Birth and fertility rates for the Hispanic population, shown in tables 6, 8, 9, and 14, are based on estimates of the total Hispanic population as of July 1, 1999 (6). Rates for Hispanic subgroups are based on special population estimates that are presented in table III in the Technical notes (100). More information about the populations for Hispanic subgroups is presented elsewhere (4).

Computation of rates

In computing birth rates by live-birth order, births with birth order not stated were distributed in the same proportion as births of known live-birth order. This procedure is done separately by race.

In computing birth and fertility rates for the Hispanic population, births with origin of mother not stated are included with non-Hispanic births rather than being distributed. Thus, rates for the U.S. Hispanic population are underestimates of the true rates to the extent that the births with origin of mother not stated (1.2 percent) were actually to Hispanic mothers (see table I). In computing the rates, the census-based populations with origin not stated are imputed. The effect on the rates is believed to be small.

Age of father—Information on age of father is often missing on birth certificates of children born to unmarried women (table I). In computing birth rates by age of father, births where age of father is not stated are distributed in the same proportions as births with known age within each 5-year age classification of mother. This procedure is followed because, while father's age is missing on 14 percent of the

birth certificates, nearly one third of these were on records where the mother is a teenager. This distribution procedure is done separately by race. The resulting distributions are summed to form a composite frequency distribution that is the basis for computing birth rates by age of father. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded.

Graphic presentation

Trend data shown in figures 2–4, 6, 7, and 9 are plotted using a logarithmic scale. This approach is taken to facilitate comparison of the relative change in rates over time for each series of rates as well as the differentials among rates for different series. The trend lines in figure 2, for example, show that women 40–44 years of age experienced the most change of any group over the period, and also that they had the greatest increase in rates since 1985.

Random variation and significance testing for natality data

The number of births reported for an area is essentially a complete count, because more than 99 percent of all births are registered. Although this number is not subject to sampling error, it may be affected by nonsampling errors such as mistakes in recording the mother's residence or age during the registration process.

When the number of births is used for analytic purposes the number of events that *actually* occurred can be thought of as one in a large series of possible results that *could have* occurred under the same circumstances. When considered in this way, the number of births is subject to random variation. The probable range of values may be estimated from the actual figures according to certain statistical assumptions.

The **confidence interval** is the range of values for the number of births, birth rates, or percent of births that you could expect in 95 out of 100 cases. The **confidence limits** are the end points of this range of values (the highest and lowest values). Confidence limits tell you how much the number of events or rates could vary under similar circumstances.

Confidence limits for numbers, rates, and percents can be estimated from the actual number of events. Procedures differ for rates and percents and also differ depending on the number of births on which these statistics are based. Below are detailed procedures and examples for each type of case.

95-percent confidence limits for numbers less than 100

When the number of births is less than 100 and the rate is small, the data are assumed to follow a Poisson probability distribution. Confidence limits are estimated using the following formulas:

$$\text{Lower limit} = B \times L$$

$$\text{Upper limit} = B \times U$$

where

$$B = \text{number of births}$$

L = value in table IV that corresponds to the number B

U = value in table IV that corresponds to the number B

Example

Suppose that the number of first births to American Indian women 40–44 years of age was 47. The confidence limits for this number would be:

$$\begin{aligned} \text{Lower limit} &= B \times L \\ &= 47 \times 0.73476 \\ &= 35 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= B \times U \\ &= 47 \times 1.32979 \\ &= 63 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual number of first births to American Indian women 40–44 years of age would lie between 35 and 63.

95-percent confidence limits for numbers of 100 or more

When the number of events is greater than 100, the data are assumed to be approximately normally distributed. Formulas for 95-percent confidence limits are:

$$\text{Lower limit} = B - (1.96 \times \sqrt{B})$$

$$\text{Upper limit} = B + (1.96 \times \sqrt{B})$$

where

$$B = \text{number of births}$$

Example

Suppose that the number of first births to white women 40–44 years of age was 14,108. The 95-percent confidence limits for this number would be:

$$\begin{aligned} \text{Lower limit} &= 14,108 - (1.96 \times \sqrt{14,108}) \\ &= 14,108 - 233 \\ &= 13,875 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= 14,108 + (1.96 \times \sqrt{14,108}) \\ &= 14,108 + 233 \\ &= 14,341 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual number of first births to white women 40–44 years of age would lie between 13,875 and 14,341.

Computing confidence intervals for rates

The same statistical assumptions can be used to estimate the variability in birth rates. Again, one formula is used for rates based on numbers of events less than 100, and another formula for rates based on numbers of 100 or greater. For our purposes, assume that the denominators of these rates (the population estimates) have no

Table IV. Values of *L* and *U* for calculating 95-percent confidence limits for numbers of events and rates when the number of events is less than 100

<i>N</i>	<i>L</i>	<i>U</i>	<i>N</i>	<i>L</i>	<i>U</i>
1	0.02532	5.57164	51	0.74457	1.31482
2	0.12110	3.61234	52	0.74685	1.31137
3	0.20622	2.92242	53	0.74907	1.30802
4	0.27247	2.56040	54	0.75123	1.30478
5	0.32470	2.33367	55	0.75334	1.30164
6	0.36698	2.17658	56	0.75539	1.29858
7	0.40205	2.06038	57	0.75739	1.29562
8	0.43173	1.97040	58	0.75934	1.29273
9	0.45726	1.89831	59	0.76125	1.28993
10	0.47954	1.83904	60	0.76311	1.28720
11	0.49920	1.78928	61	0.76492	1.28454
12	0.51671	1.74680	62	0.76669	1.28195
13	0.53246	1.71003	63	0.76843	1.27943
14	0.54671	1.67783	64	0.77012	1.27698
15	0.55969	1.64935	65	0.77178	1.27458
16	0.57159	1.62394	66	0.77340	1.27225
17	0.58254	1.60110	67	0.77499	1.26996
18	0.59266	1.58043	68	0.77654	1.26774
19	0.60207	1.56162	69	0.77806	1.26556
20	0.61083	1.54442	70	0.77955	1.26344
21	0.61902	1.52861	71	0.78101	1.26136
22	0.62669	1.51401	72	0.78244	1.25933
23	0.63391	1.50049	73	0.78384	1.25735
24	0.64072	1.48792	74	0.78522	1.25541
25	0.64715	1.47620	75	0.78656	1.25351
26	0.65323	1.46523	76	0.78789	1.25165
27	0.65901	1.45495	77	0.78918	1.24983
28	0.66449	1.44528	78	0.79046	1.24805
29	0.66972	1.43617	79	0.79171	1.24630
30	0.67470	1.42756	80	0.79294	1.24459
31	0.67945	1.41942	81	0.79414	1.24291
32	0.68400	1.41170	82	0.79533	1.24126
33	0.68835	1.40437	83	0.79649	1.23965
34	0.69253	1.39740	84	0.79764	1.23807
35	0.69654	1.39076	85	0.79876	1.23652
36	0.70039	1.38442	86	0.79987	1.23499
37	0.70409	1.37837	87	0.80096	1.23350
38	0.70766	1.37258	88	0.80203	1.23203
39	0.71110	1.36703	89	0.80308	1.23059
40	0.71441	1.36172	90	0.80412	1.22917
41	0.71762	1.35661	91	0.80514	1.22778
42	0.72071	1.35171	92	0.80614	1.22641
43	0.72370	1.34699	93	0.80713	1.22507
44	0.72660	1.34245	94	0.80810	1.22375
45	0.72941	1.33808	95	0.80906	1.22245
46	0.73213	1.33386	96	0.81000	1.22117
47	0.73476	1.32979	97	0.81093	1.21992
48	0.73732	1.32585	98	0.81185	1.21868
49	0.73981	1.32205	99	0.81275	1.21746
50	0.74222	1.31838			

error. While this assumption is technically correct *only* for denominators based on the census that occurs every 10 years, the error in intercensal population estimates is usually small, difficult to measure, and therefore not considered.

95-percent confidence limits for rates based on less than 100 events

When the number of events in the numerator is less than 20, an asterisk is shown in place of the rate because there were too few births to compute a statistically reliable rate. When the number of events in the numerator is greater than 20 but less than 100, the confidence interval for a rate can be estimated using the two formulas that follow and the values in [table IV](#).

$$\text{Lower limit} = R \times L$$

$$\text{Upper limit} = R \times U$$

where

R = birth rate

L = value in [table IV](#) that corresponds to the number *B* in the numerator of the rate

U = value in [table IV](#) that corresponds to the number *B* in the numerator of the rate

Example

Suppose that the first birth rate for American Indian women 40–44 years of age was 0.54 per 1,000, based on 47 births in the numerator. Using [table IV](#):

$$\text{Lower limit} = 0.54 \times 0.73476 = .40$$

$$\text{Upper limit} = 0.54 \times 1.32979 = .72$$

This means that the chances are 95 out of 100 that the actual first birth rate for American Indian women 40–44 years of age lies between .40 and .72.

95-percent confidence limits for rates when the numerator is 100 or more

In this case, use the following formula for the birth rate *R* based on the number of births *B*:

$$\text{Lower limit} = R - [1.96 \times (R / \sqrt{B})]$$

$$\text{Upper limit} = R + [1.96 \times (R / \sqrt{B})]$$

where

- R* = the birth rate
- B* = the number of births

Example

Suppose that the first birth rate for white women 40–44 years of age was 1.55 per 1,000, based on 14,108 births in the numerator. Therefore, the 95-percent confidence interval would be:

$$\begin{aligned} \text{Lower limit} &= 1.55 - [1.96 \times (1.55 / \sqrt{14,108})] \\ &= 1.55 - .026 \\ &= 1.52 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= 1.55 + [1.96 \times (1.55 / \sqrt{14,108})] \\ &= 1.55 + .026 \\ &= 1.58 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual first birth rate for white women 40–44 years of age lies between 1.52 and 1.58.

Computing 95-percent confidence intervals for percents

In many instances we need to compute the confidence intervals for percents. Percents derive from a binomial distribution. As with birth rates, an asterisk will be shown for any percent that is based on fewer than 20 births in the numerator. We easily compute a 95-percent confidence interval for a percent when the following conditions are met:

$$B \times p \geq 5 \text{ and } B \times q \geq 5$$

where

- B* = number of births in the denominator
- p* = percent divided by 100
- q* = 1 - *p*

For natality data, these conditions will be met except for very rare events in small subgroups. If the conditions are *not* met, the variation in the percent will be so large as to render the confidence intervals meaningless. When these conditions are met the 95-percent confidence interval can be computed using the normal approximation of the binomial. The 95-percent confidence intervals are computed by the following formulas:

$$\text{Lower limit} = p - [1.96 \times (\sqrt{p \times q / B})]$$

$$\text{Upper limit} = p + [1.96 \times (\sqrt{p \times q / B})]$$

where

- p* = percent divided by 100
- q* = 1 - *p*
- B* = number of births in the denominator

Example

Suppose that the percent of births to Hispanic women in Alabama that were to unmarried women was 23.0 percent. This was based on 310 births in the numerator and 1,345 births in the denominator. First we test to make sure we can use the normal approximation of the binomial:

$$\begin{aligned} 1,345 \times .230 &= 309 \\ 1,345 \times (1 - .230) &= 1,345 \times .770 = 1,036 \end{aligned}$$

Both 309 and 1,036 are greater than 5 so we can proceed. The 95-percent confidence interval would be:

$$\begin{aligned} \text{Lower limit} &= .23 - \left(1.96 \sqrt{\frac{.23(.77)}{1,345}} \right) \\ &= .23 - .022 \\ &= .208, \text{ or } 20.8 \text{ percent} \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= .23 + \left(1.96 \sqrt{\frac{.23(.77)}{1,345}} \right) \\ &= .23 + .022 \\ &= .252, \text{ or } 25.2 \text{ percent} \end{aligned}$$

This means that the chances are 95 out of 100 that the actual percent of births in Alabama to Hispanic women that are to unmarried women lies between 20.8 and 25.2 percent.

Significance testing

One of the rates is based on fewer than 100 cases

To compare two rates is when one or both of those rates are based on less than 100 cases, you first compute the confidence intervals for both rates. Then you check to see if those intervals overlap. If they **do** overlap, the difference is not statistically significant at the 95-percent level. If they **do not** overlap, the difference is indeed "statistically significant."

Example

Is the first birth rate for American Indian women 40–44 years of age (.54 per 1,000) significantly lower than the comparable rate for white women (1.55)? The rate for American Indian women is based on 47 events whereas the rate for white women is based on 14,108 events. The rate for American Indian women is based on less than 100 events; therefore, the first step is to compute the confidence intervals for both rates.

	Lower Limit	Upper Limit
American Indian women	0.40	0.72
White women	1.52	1.58

These two confidence intervals do not overlap. Therefore, the first birth rate for American Indian women aged 40–44 years is significantly lower (at the 95-percent confidence level) than the comparable rate for white women.

Both rates are based on 100 or more events

When both rates are based on 100 or more events, the difference between the two rates is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two rates.

$$1.96 \sqrt{\frac{R_1^2}{N_1} + \frac{R_2^2}{N_2}}$$

where

R_1 = first rate

R_2 = second rate

N_1 = first number of births

N_2 = second number of births

If the difference is **greater** than this statistic, then the difference would occur by chance less than 5 times out of 100. If the difference is **less** than this statistic, the difference might occur by chance more than 5 times out of 100. We say that the difference is not statistically significant at the 95-percent confidence level.

Example

Is the first birth rate for black women 40–44 years of age (1.08 per 1,000) significantly lower than the comparable rate for white women (1.55)? Both rates are based on more than 100 births (1,535 for black women and 14,108 for white women). The difference between the rates is $1.55 - 1.08 = .47$. The statistic is then calculated as follows:

$$\begin{aligned} & 1.96 \sqrt{\frac{1.08^2}{1,535} + \frac{1.55^2}{14,108}} \\ &= 1.96 \times \sqrt{([1.166/1,535] + [2.403/14,108])} \\ &= 1.96 \times \sqrt{0.00076 + 0.00017} \\ &= 1.96 \times \sqrt{0.00093} \\ &= 1.96 \times .03 \\ &= .06 \end{aligned}$$

The difference between the rates (.47) is greater than this statistic (.06). Therefore, the difference is statistically significant at the 95-percent confidence level.

Testing differences between two percents

When testing the difference between two percents, both percents must meet the following conditions:

$$B \times p \geq 5 \text{ and } B \times q \geq 5$$

where

B = number of births in the denominator

p = percent divided by 100

$q = 1 - p$

When both percents meet these conditions then the difference between the two percents is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two percents.

$$1.96 \sqrt{p(1-p) \left(\frac{1}{B_1} + \frac{1}{B_2} \right)}$$

where

B_1 = number of births in the denominator for the first percent

B_2 = number of births in the denominator for the second percent

$$p = \frac{B_1 p_1 + B_2 p_2}{B_1 + B_2}$$

p_1 = first percent

p_2 = second percent

Example

Is the percent of births to Hispanic women that were to unmarried women higher in Alaska (28.8 percent) than in Alabama (23.0). The number in the denominator was 593 in Alaska and 1,345 in Alabama. The necessary conditions are met for both percents (calculations not shown). The difference between the two percents is $.288 - .230 = .058$. The statistic is then calculated as follows:

$$\begin{aligned} & 1.96 \sqrt{.248(.752) (.00243)} = 1.96 \times \sqrt{.00045} \\ &= 1.96 \times .021 \\ &= .042 \end{aligned}$$

The difference between the percents (.058) is greater than this statistic (.042). Therefore, the difference is statistically significant at the 95-percent confidence level.

Information on computing confidence intervals for and testing differences between rates for Hispanic subgroups is available elsewhere (4).

Definitions of medical terms

The 1989 revision of the U.S. Standard Certificate of Live Birth includes several maternal and infant health items in checkbox format, including obstetric procedures, medical risk factors, complications of labor and/or delivery, abnormal conditions of the newborn, and congenital anomalies of the child (figure 1). The definitions that follow are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the National Association of Public Health Statistics and Information Systems, formerly known as the Association for Vital Records and Health Statistics (101).

Medical risk factors for this pregnancy

Anemia—Hemoglobin level of less than 10.0 g/dL during pregnancy or a hematocrit of less than 30 percent during pregnancy.

Cardiac disease—Disease of the heart.

Acute or chronic lung disease—Disease of the lungs during pregnancy.

Diabetes—Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset, and gestational diabetes during pregnancy.

Genital herpes—Infection of the skin of the genital area by herpes simplex virus.

Hydramnios/oligohydramnios—Any noticeable excess (hydramnios) or lack (oligohydramnios) of amniotic fluid.

Hemoglobinopathy—A blood disorder caused by alteration in the genetically determined molecular structure of hemoglobin (example: sickle cell anemia).

Hypertension, chronic—Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation.

Hypertension, pregnancy-associated—An increase in blood pressure of at least 30 mm Hg systolic or 15 mm Hg diastolic on two measurements taken 6 hours apart after the 20th week of gestation.

Eclampsia—The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of pre-eclampsia.

Incompetent cervix—Characterized by painless dilation of the cervix in the second trimester or early in the third trimester of pregnancy, with premature expulsion of membranes through the cervix and ballooning of the membranes into the vagina, followed by rupture of the membranes and subsequent expulsion of the fetus.

Previous infant 4,000+ grams—The birth weight of a previous live-born child was over 4,000+ grams (8 pounds 14 ounces).

Previous preterm or small-for-gestational-age infant—Previous birth of an infant prior to term (before 37 completed weeks of gestation) or of an infant weighing less than the tenth percentile for gestational age using a standard weight for age chart.

Renal disease—Kidney disease.

Rh sensitization—The process or state of becoming sensitized to the Rh factor as when an Rh-negative woman is pregnant with an Rh-positive fetus.

Uterine bleeding—Any clinically significant bleeding during the pregnancy taking into consideration the stage of pregnancy; any second or third trimester bleeding of the uterus prior to the onset of labor.

Obstetric procedures

Amniocentesis—Surgical transabdominal perforation of the uterus to obtain amniotic fluid to be used in the detection of genetic disorders, fetal abnormalities, and fetal lung maturity.

Electronic fetal monitoring—Monitoring with external devices applied to the maternal abdomen or with internal devices with an electrode attached to the fetal scalp and a catheter through the cervix into the uterus, to detect and record fetal heart tones and uterine contractions.

Induction of labor—The initiation of uterine contractions before the spontaneous onset of labor by medical and/or surgical means for the purpose of delivery.

Stimulation of labor—Augmentation of previously established labor by use of oxytocin.

Tocolysis—Use of medications to inhibit preterm uterine contractions to extend the length of pregnancy and, therefore, avoid a preterm birth.

Ultrasound—Visualization of the fetus and the placenta by means of sound waves.

Complications of labor and/or delivery

Febrile—A fever greater than 100° F. or 38° C. occurring during labor and/or delivery.

Meconium, moderate/heavy—Meconium consists of undigested debris from swallowed amniotic fluid, various products of secretion, excretion and shedding by the gastrointestinal tract; moderate to heavy amounts of meconium in the amniotic fluid noted during labor and/or delivery.

Premature rupture of membranes (more than 12 hours)—Rupture of the membranes at any time during pregnancy and more than 12 hours before the onset of labor.

Abruptio placenta—Premature separation of a normally implanted placenta from the uterus.

Placenta previa—Implantation of the placenta over or near the internal opening of the cervix.

Other excessive bleeding—The loss of a significant amount of blood from conditions other than abruptio placenta or placenta previa.

Seizures during labor—Maternal seizures occurring during labor from any cause.

Precipitous labor (less than 3 hours)—Extremely rapid labor and delivery lasting less than 3 hours.

Prolonged labor (more than 20 hours)—Abnormally slow progress of labor lasting more than 20 hours.

Dysfunctional labor—Failure to progress in a normal pattern of labor.

Breech/malpresentation—At birth, the presentation of the fetal buttocks rather than the head, or other malpresentation.

Cephalopelvic disproportion—The relationship of the size, presentation and position of the fetal head to the maternal pelvis which prevents dilation of the cervix and/or descent of the fetal head.

Cord prolapse—Premature expulsion of the umbilical cord in labor before the fetus is delivered.

Anesthetic complications—Any complication during labor and/or delivery brought on by an anesthetic agent or agents.

Fetal distress—Signs indicating fetal hypoxia (deficiency in amount of oxygen reaching fetal tissues).

Abnormal conditions of the newborn

Anemia—Hemoglobin level of less than 13.0 g/dL or a hematocrit of less than 39 percent.

Birth injury—Impairment of the infant's body function or structure due to adverse influences which occurred at birth.

Fetal alcohol syndrome—A syndrome of altered prenatal growth and development occurring in infants born of women who consumed excessive amounts of alcohol during pregnancy.

Hyaline membrane disease/RDS—A disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth.

Meconium aspiration syndrome—Aspiration of meconium by the fetus or newborn, affecting the lower respiratory system.

Assisted ventilation (less than 30 minutes)—A mechanical method of assisting respiration for newborns with respiratory failure.

Assisted ventilation (30 minutes or more)—Newborn placed on assisted ventilation for 30 minutes or longer.

Seizures—A seizure of any etiology.

Congenital anomalies of child

Anencephalus—Absence of the cerebral hemispheres.

Spina bifida/meningocele—Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.

Hydrocephalus—Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with consequent enlargement of the cranium.

Microcephalus—A significantly small head.

Other central nervous system anomalies—Other specified anomalies of the brain, spinal cord, and nervous system.

Heart malformations—Congenital anomalies of the heart.

Other circulatory/respiratory anomalies—Other specified anomalies of the circulatory and respiratory systems.

Rectal atresia/stenosis—Congenital absence, closure, or narrowing of the rectum.

Tracheo-esophageal fistula/Esophageal atresia—An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.

Omphalocele/Gastroschisis—An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

Other gastrointestinal anomalies—Other specified congenital anomalies of the gastrointestinal system.

Malformed genitalia—Congenital anomalies of the reproductive organs.

Renal agenesis—One or both kidneys are completely absent.

Other urogenital anomalies—Other specified congenital anomalies of the organs concerned in the production and excretion of urine, together with organs of reproduction.

Cleft lip/palate—Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.

Polydactyly/syndactyly/adactyly—Polydactyly is the presence of more than five digits on either hands and/or feet; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.

Club foot—Deformities of the foot, which is twisted out of shape or position.

Diaphragmatic hernia—Herniation of the abdominal contents through the diaphragm into the thoracic cavity usually resulting in respiratory distress.

Other musculoskeletal/integumental anomalies—Other specified congenital anomalies of the muscles, skeleton, or skin.

Down's syndrome—The most common chromosomal defect with most cases resulting from an extra chromosome (trisomy 21).

Other chromosomal anomalies—All other chromosomal aberrations.

Related reports

Many of the topics discussed in this report are covered in more analytic detail in other reports published by NCHS. Topics of reports published in the past 5 years include Hispanic origin births (5); twin and triplet births (70, 83); teenage birth rates by State (7); birth rates by educational attainment of the mother (102); cesarean deliveries, attendant at birth, place of delivery, and obstetric procedures (61, 103); births to unmarried mothers (24); trends in pregnancies and pregnancy rates (8); and trends in smoking (37).

This report presents summary tabulations from the final natality statistics for 1999. The National Center for Health Statistics will respond to requests for unpublished data whenever possible.

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