

**DOCUMENTATION OF THE  
DETAIL NATALITY PUBLIC USE FILE  
FOR 2003**

**NOTE: THE RECORD LAYOUT OF THIS FILE HAS  
CHANGED SUBSTANTIALLY. USERS  
SHOULD READ THIS DOCUMENT  
CAREFULLY.**

Public Use Data Tape Documentation - Natality Detail 2003 Data

This tape documentation was prepared in the Division of Vital Statistics by Steve Steimel of the Systems, Programming, and Statistical Resources Branch (SPSRB) and Paul Sutton, Brady Hamilton of the Reproductive Statistics Branch (RSB). Thomas D. Dunn of SPSRB was responsible for coordinating the natality documentation.

Sharon Kirmeyer of RSB 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, 3311 Toledo Road, 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, 3311 Toledo Road, Hyattsville, MD 20782-2003 (301-458-4111).

Included in this document are:

1. Introduction to the Public Use Documentation for 2003
2. List of data elements and tape locations.
3. Machine/File/Data Characteristics.
4. Detail Record Layout.
5. File Position Map from 2003 File to 2002 File.
6. Geographic Code Lists for the United States and the Territories.
7. Lists of Metropolitan Statistical Areas the United States and the Territories.
8. Natality Technical Appendix for 2003.
9. Births: Final Data for 2003.
10. Control Total Tables for Selected Revised Certificate Items.

#### 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

## **Public Use File Documentation**

### **Natality 2003**

#### *Introduction*

United States birth data represent all births registered in the 50 States, the District of Columbia, New York City, Puerto Rico, Virgin Islands, American Samoa, and the Commonwealth of the Northern Marianas. The Center for Disease Control and Prevention's National Center for Health Statistics (NCHS) receives these data as electronic files, prepared from individual records processed by each registration area, through the Vital Statistics Cooperative Program. Information for Guam is obtained from paper copies of original birth certificates which is coded and keyed by NCHS. Data from American Samoa first became available in 1997. Data from the Northern Marianas first became available in 1998.

Birth data for the U.S. 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 of the United States are not included in this file. Birth data for Puerto Rico, Virgin Islands, Guam and American Samoa are limited to births occurring within the respective territories. For more detailed information on the 2003 Natality file *see The Technical Appendix of the Vital Statistics of the United States, 2003, vol I natality.*

#### *The 1989 and 2003 Revisions of the U.S. Certificate of Live Birth*

This data file includes data based on both the 1989 Revision of the U.S. Standard Certificate of Live Birth (unrevised) and the 2003 revision of the U.S. Standard Certificate of Live Birth in 2003 (revised), which was used by Pennsylvania and Washington. The 2003 revision is described in detail elsewhere. (See the 2003 Revision website at: [http://www.cdc.gov/nchs/vital\\_certs\\_rev.htm](http://www.cdc.gov/nchs/vital_certs_rev.htm)). Where comparable, revised data from Pennsylvania and Washington are combined with data from the remaining 48 states and the District of Columbia. (Revised data are denoted by "R;" unrevised data are denoted by "U" in the "Rev" column of the documentation.) Where data for the 1989 and 2003 certificate revisions are not comparable (e.g., educational attainment of the mother), unrevised and revised data are given in separate fields in the data file. Also, see

discussion of reporting flags. Data on items new to the 2003 Revision of the U.S. Certificate of Live Birth are not included in this data file.

### *The Use of Reporting Flags*

Birth data are collected by the place of occurrence but typically tabulated by mother's place of residence. Reporting flags are included in the file to assist in accurately excluding records from non-reporting areas when tabulating data by mother's place of residence. For this purpose, the complete reporting area means the 50 States, the District of Columbia and New York City. For medical information collected using a checkbox format on the birth certificate (e.g. medical risk factors) non-reporting areas are excluded by use of the code "8" (item not on certificate) which is part of the code structure for each specific checkbox item.

For non-checkbox items (e.g. prenatal care) a separate reporting flag is used. Reporting flags must be invoked to generate accurate numbers by residence for items which are not reported by all States. Reporting flag codes are "0" (item not on certificate) or "1" (item on certificate). Where applicable, reporting flags are shown in the column "Reporting Flag Position" in the file documentation.

### *Metropolitan statistical areas*

Metropolitan statistical areas in this file are based the 1994 Office of Management and Budget (OMB) definition effective July 1, 1994. This definition has been used to define metropolitan statistical areas for natality files since 1994. A listing of these 311 Metropolitan Statistical Areas (MSA's), Primary Metropolitan Statistical Areas (PMSA's), and New England County Metropolitan Areas (NECMA's) is included in this documentation. The 18 Consolidated Metropolitan Statistical Areas (CMSA's) are also included. In June of 2003 The OMB substantially revised the methodology for classifying and coding metropolitan areas in the United States. NCHS plans to convert to the new classification scheme with the release of 2005 natality data.

*Confidentiality*

To minimize the risk of disclosure of individual or institutional information NCHS public use data files do not contain the actual day of the birth or the dates of birth of the mother or father. Geographic detail is also restricted; only counties and cities of 100,000 or more population based on the 2000 Census are identified.

LIST OF DATA ELEMENTS AND LOCATIONS

<u>Data Items</u>	<u>Locations</u>
1. General	
a) Data year	15-18
b) Record type	137
c) Resident status	138
2. Occurrence	
a) State	30-31
b) Expanded State	32-33
c) County	37-39
d) Population size - county	40
3. Residence	
a) State	109-110
b) Expanded State	107-108
c) County	114-116
d) Place	120-124
e) Population size - city	133
f) Population size - county	132
g) Met/Nonmet county	135
h) CMSA	125-126
i) PSMA/MSA	127-130
4. Prenatal Care	
a) Month began	256-257
b) Number of visits	270-271
5. Child	
a) Sex	437
b) Number at delivery	423
c) Birthweight	463-466
d) Apgar score	415-416
e) Gestation	451-457
f) Month/year of birth	15-20
g) Day of week of birth	29
6. Mother	
a) Age	89-93
b) Race	139-144, 938-961
c) Marital status	153
d) Education	155-158
e) Place of Birth	96-97, 100
f) Hispanic Origin	148-149
7. Pregnancy History	
a) Born alive, now living	204-205
b) Born alive, now dead	206-207
c) Other terminations	208-209
d) Total birth order	215-217
e) Live birth order	210-212
8. Father	
a) Age	184-187
b) Race	188-191, 199-200, 1272-1295
c) Hispanic origin	195-196
9. Other Items	
a) Residence reporting flags	569-669
b) Attendant at birth	408
c) Place of delivery	42

10. Medical and Health Data	
a) Method of delivery	395-401
b) Medical risk factors	328-344
c) Other risk factors	
Tobacco	282-294
Alcohol	295-298
Weight gain during pregnancy	276-278
d) Obstetric procedures	355-361
e) Complications of labor and/or delivery	374-389
f) Abnormal conditions of the newborn	483-491
g) Congenital anomalies	504-525



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:	1350
9.	Blocksize:	29700

U.S. DATA SET:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 4,096,092
	b.	By residence: 4,089,950
	c.	To foreign residents: 6,142

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

1.	Record count:	58,664
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PUERTO RICO:

2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 50,803
	b.	By residence: 50,696

VIRGIN ISLANDS:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 1,610
	b.	By residence: 1,522

GUAM:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 3,296
	b.	By residence: 3,281

AMERICAN SAMOA:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 1,608
	b.	By residence: 1,608

NORTHERN MARIANAS:

1.	Record count:	
2.	Data counts:	ALL BIRTHS:
	a.	By occurrence: 1,347
	b.	By residence: 1,349

2003  
Public Use – Detail Natality Record

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
1-6	6	FILLER	<b>Filler</b>			Blank	
7	1	REVISION	<b>Revision</b>		U,R	A S	Data based on the 2003 revision of the US Standard Birth Certificate (Revised) Data based on the 1989 revision of the US Standard Birth Certificate (Unrevised)
8	1	RECWT	<b>Record Weight</b>		U,R	1	
9-14	6	FILLER	<b>Filler</b>			Blank	
15-18	4	DOB_YY	<b>Birth Year</b>		U,R	2003	Year of birth
19-20	2	DOB_MM	<b>Birth Month</b>		U,R	01 02 03 04 05 06 07 08 09 10 11 12	January February March April May June July August September October November December
21-28	8	FILLER	<b>Filler</b>			Blank	
29	1	DOB_WK	<b>Weekday</b>		U,R	1 2 3 4 5 6 7	Sunday Monday Tuesday Wednesday Thursday Friday Saturday
30-31	2	OSTATE	<b>Occurrence State</b>		U,R		
			<u>United States</u>			AK AL	Alaska Alabama

\*U,R Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).

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2003  
Public Use – Detail Natality Record

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						AR	Arkansas
						AZ	Arizona
						CA	California
						CO	Colorado
						CT	Connecticut
						DE	Delaware
						DC	District of Columbia
						FL	Florida
						GA	Georgia
						HI	Hawaii
						ID	Idaho
						IL	Illinois
						IN	Indiana
						IA	Iowa
						KS	Kansas
						KY	Kentucky
						LA	Louisiana
						MA	Massachusetts
						MD	Maryland
						ME	Maine
						MI	Michigan
						MN	Minnesota
						MO	Missouri
						MS	Mississippi
						MT	Montana
						NC	North Carolina
						ND	North Dakota
						NE	Nebraska
						NH	New Hampshire
						NJ	New Jersey
						NM	New Mexico
						NV	Nevada
						NY	New York
						OH	Ohio
						OK	Oklahoma
						OR	Oregon
						PA	Pennsylvania
						RI	Rhode Island
						SC	South Carolina
						SD	South Dakota

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2003  
Public Use – Detail Natality Record

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						TN	Tennessee
						TX	Texas
						UT	Utah
						VA	Virginia
						VT	Vermont
						WA	Washington
						WI	Wisconsin
						WV	West Virginia
						WY	Wyoming
			<u>Possessions</u>			AS	American Samoa
						GU	Guam
						MP	Northern Marianas
						PR	Puerto Rico
						VI	Virgin Islands
32-33	2	XOSTATE	<b>Expanded Occurrence State</b> <u>United States</u>		U,R	AK	Alaska
						AL	Alabama
						AR	Arkansas
						AZ	Arizona
						CA	California
						CO	Colorado
						CT	Connecticut
						DE	Delaware
						DC	District of Columbia
						FL	Florida
						GA	Georgia
						HI	Hawaii
						ID	Idaho
						IL	Illinois
						IN	Indiana
						IA	Iowa
						KS	Kansas
						KY	Kentucky
						LA	Louisiana
						MA	Massachusetts
						MD	Maryland
						ME	Maine
						MI	Michigan

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2003  
Public Use – Detail Natality Record

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						MN	Minnesota
						MO	Missouri
						MS	Mississippi
						MT	Montana
						NC	North Carolina
						ND	North Dakota
						NE	Nebraska
						NH	New Hampshire
						NJ	New Jersey
						NM	New Mexico
						NV	Nevada
						NY	New York
						OH	Ohio
						OK	Oklahoma
						OR	Oregon
						PA	Pennsylvania
						RI	Rhode Island
						SC	South Carolina
						SD	South Dakota
						TN	Tennessee
						TX	Texas
						UT	Utah
						VA	Virginia
						VT	Vermont
						WA	Washington
						WI	Wisconsin
						WV	West Virginia
						WY	Wyoming
						YC	New York City
			<u>Possessions</u>			AS	American Samoa
						GU	Guam
						MP	Northern Marianas
						PR	Puerto Rico
						VI	Virgin Islands
34-36	3	FILLER	<b>Filler</b>			Blank	
37-39	3	OCNTYFIPS	<b>Occurrence FIPS County</b>		U,R	001-999	Counties and county equivalents (independent and
*U,R							Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).
U							Includes data based on the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.
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2003  
Public Use – Detail Natality Record

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
							coextensive cities) are numbered alphabetically within each State. (Note: To uniquely identify a county, both the State and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document.
						999	County of less than 100,000 population or foreign resident
40	1	OCNTYPOP	<b>Occurrence County Pop</b>		U,R	0 1 2 3 9	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County of 100,000 to 250,000 County less than 100,000
41	1	FILLER	<b>Filler</b>			Blank	
42	1	UBFACIL	<b>Birth Place</b>		U,R	1 2 3 4 5 9	Hospital Freestanding Birthing Center Clinic / Doctor's Office Residence Other Unknown
43-58	16	FILLER	<b>Filler</b>			Blank	
59	1	BFACIL3	<b>Birth Place Recode</b>		U,R	1 2 3	In Hospital Not in Hospital Unknown or Not Stated
60-76	17	FILLER	<b>Filler</b>			Blank	
77-78	2	UMAGERPT	<b>Mother's Reported Age</b>		U	10-54 99 Blank	Age in Years Unknown or Not Stated Not on certificate
79-86	8	FILLER	<b>Filler</b>			Blank	
87	1	MAGE_IMPFLG	<b>Mother's Age Imputed</b>		U,R	Blank 1	Age not imputed Age imputed

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
88	1	MAGE_REPFLG	<b>Reported Age of Mother Flag</b>		U,R	Blank 1	Reported age not used Reported age used
89-90	2	MAGER41	<b>Mother's Age Recode 41</b>		U,R	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	Under 15 years 15 years 16 years 17 years 18 years 19 years 20 years 21 years 22 years 23 years 24 years 25 years 26 years 27 years 28 years 29 years 30 years 31 years 32 years 33 years 34 years 35 years 36 years 37 years 38 years 39 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 50 years

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2003  
Public Use – Detail Natality Record

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						38	51 years
						39	52 years
						40	53 years
						41	54 years
91-92	2	MAGER14	<b>Mother's Age Recode 14</b>		U,R	01	Under 15 Years
						03	15 years
						04	16 years
						05	17 years
						06	18 years
						07	19 years
						08	20-24 years
						09	25-29 years
						10	30-34 years
						11	35-39 years
						12	40-44 years
						13	45-49 years
						14	50-54 years
93	1	MAGER9	<b>Mother's Age Recode 9</b>		U,R	1	Under 15 years
						2	15-19 years
						3	20-24 years
						4	25-29 years
						5	30-34 years
						6	35-39 years
						7	40-44 years
						8	45-49 years
						9	50-54 years
94-95	2	FILLER	<b>Filler</b>				Blank
96-97	2	UMBSTATE	<b>Mother's Birth State</b> <u>United States</u>		U,R	AK	Alaska
						AL	Alabama
						AR	Arkansas
						AZ	Arizona
						CA	California
						CO	Colorado
						CT	Connecticut
						DE	Delaware

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2003  
Public Use – Detail Natality Record

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						DC	District of Columbia
						FL	Florida
						GA	Georgia
						HI	Hawaii
						ID	Idaho
						IL	Illinois
						IN	Indiana
						IA	Iowa
						KS	Kansas
						KY	Kentucky
						LA	Louisiana
						MA	Massachusetts
						MD	Maryland
						ME	Maine
						MI	Michigan
						MN	Minnesota
						MO	Missouri
						MS	Mississippi
						MT	Montana
						NC	North Carolina
						ND	North Dakota
						NE	Nebraska
						NH	New Hampshire
						NJ	New Jersey
						NM	New Mexico
						NV	Nevada
						NY	New York
						OH	Ohio
						OK	Oklahoma
						OR	Oregon
						PA	Pennsylvania
						RI	Rhode Island
						SC	South Carolina
						SD	South Dakota
						TN	Tennessee
						TX	Texas
						UT	Utah
						VA	Virginia
						VT	Vermont
						WA	Washington

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Public Use – Detail Natality Record

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						WI	Wisconsin
						WV	West Virginia
						WY	Wyoming
			<u>Possessions</u>			AS	American Samoa
						GU	Guam
						MP	Northern Marianas
						PR	Puerto Rico
						VI	Virgin Islands
			<u>Foreign</u>			CC	Canada
						CU	Cuba
						MX	Mexico
						YY	Rest of the World
						ZZ	Not Classifiable
98-99	2	FILLER	<b>Filler</b>			Blank	
100	1	MBSTATE_REC	<b>Mother's Birth State Recode</b>		U,R	1 2 3	Native born (50 US States) Foreign born (includes possessions) Unknown or Not Stated
101-106	6	FILLER	<b>Filler</b>			Blank	
107-108	2	XMRSTATE	<b>Expanded State of Residence of Mother</b> <u>United States</u>		U,R	AK AL AR AZ CA CO CT DE DC FL GA HI ID IL IN	Alaska Alabama Arkansas Arizona California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii Idaho Illinois Indiana

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						IA	Iowa
						KS	Kansas
						KY	Kentucky
						LA	Louisiana
						MA	Massachusetts
						MD	Maryland
						ME	Maine
						MI	Michigan
						MN	Minnesota
						MO	Missouri
						MS	Mississippi
						MT	Montana
						NC	North Carolina
						ND	North Dakota
						NE	Nebraska
						NH	New Hampshire
						NJ	New Jersey
						NM	New Mexico
						NV	Nevada
						NY	New York
						OH	Ohio
						OK	Oklahoma
						OR	Oregon
						PA	Pennsylvania
						RI	Rhode Island
						SC	South Carolina
						SD	South Dakota
						TN	Tennessee
						TX	Texas
						UT	Utah
						VA	Virginia
						VT	Vermont
						WA	Washington
						WI	Wisconsin
						WV	West Virginia
						WY	Wyoming
						YC	New York City
						AS	American Samoa
						GU	Guam

Possessions

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						MP	Northern Marianas
						PR	Puerto Rico
						VI	Virgin Islands
			<u>Foreign</u>			CC	Canada
						CU	Cuba
						MX	Mexico
						XX	Not Applicable
						ZZ	Not Classifiable
109-110	2	MRSTATE	<b>Mother's Residence State</b> <u>United States</u>	U,R		AK	Alaska
						AL	Alabama
						AR	Arkansas
						AZ	Arizona
						CA	California
						CO	Colorado
						CT	Connecticut
						DE	Delaware
						DC	District of Columbia
						FL	Florida
						GA	Georgia
						HI	Hawaii
						ID	Idaho
						IL	Illinois
						IN	Indiana
						IA	Iowa
						KS	Kansas
						KY	Kentucky
						LA	Louisiana
						MA	Massachusetts
						MD	Maryland
						ME	Maine
						MI	Michigan
						MN	Minnesota
						MO	Missouri
						MS	Mississippi
						MT	Montana
						NC	North Carolina
						ND	North Dakota

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						NE	Nebraska
						NH	New Hampshire
						NJ	New Jersey
						NM	New Mexico
						NV	Nevada
						NY	New York
						OH	Ohio
						OK	Oklahoma
						OR	Oregon
						PA	Pennsylvania
						RI	Rhode Island
						SC	South Carolina
						SD	South Dakota
						TN	Tennessee
						TX	Texas
						UT	Utah
						VA	Virginia
						VT	Vermont
						WA	Washington
						WI	Wisconsin
						WV	West Virginia
						WY	Wyoming
			<u>Possessions</u>			AS	American Samoa
						GU	Guam
						MP	Northern Marianas
						PR	Puerto Rico
						VI	Virgin Islands
			<u>Foreign</u>			CC	Canada
						CU	Cuba
						MX	Mexico
						XX	Not Applicable
						ZZ	Not Classifiable
111-113	3	FILLER	<b>Filler</b>			Blank	
114-116	3	MRCNTYFIPS	<b>Mother's County of Residence (FIPS)</b>		U,R	001-999	Counties and county equivalents (independent and coextensive cities) are numbered alphabetically within
*U,R			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
U			Includes data based on the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
R			Includes data based on the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
							each State. (Note: To uniquely identify a county, both the State and county codes must be used.) A complete list of counties is shown in the Geographic Code Outline further back in this document.
						999	County of less than 100,000 population or foreign resident
117-119	3	FILLER	<b>Filler</b>			Blank	
120-124	5	MRCITYFIPS	<b>Mother's Place of Residence (FIPS)</b>		U,R	00001- nnnnn	A complete list of places (cities) is shown in the Geographic Code Outline further back in this document.
						99999	County of less than 100,000 population or foreign resident
125-126	2	CMSA	<b>Consolidated Metropolitan Statistical Areas</b> <u>United States</u>		U,R	00	Not a CMSA
						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
						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
			<u>Possessions</u>			00	Not a CMSA

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						87	San Juan-Caguas-Arecibo, PR, CMSA
127-130	4	MSA	<b>Metropolitan Statistical Areas</b>		U,R	0000 0040- 9360	Nonmetropolitan counties or Foreign residents  A complete list of MSA's and their component counties is available further back in this document
131	1	MSA_POP	<b>Population of Statistical Area</b>		U,R	1 2 9 Z	Area of 250,000 or more Area of 100,000 to 250,000 Nonmetropolitan areas Foreign resident
132	1	RCNTY_POP	<b>Population of Residence County</b>		U,R	0 1 2 3 9 Z	County of 1,000,000 or more County of 500,000 to 1,000,000 County of 250,000 to 500,000 County of 100,000 to 250,000 County less than 100,000 Foreign resident
133	1	RCITY_POP	<b>Population of Residence City</b>		U,R	0 1 2 3 9 Z	City of 1,000,000 or more City of 500,000 to 1,000,000 City of 250,000 to 500,000 City of 100,000 to 250,000 City of less than 100,000 Foreign resident
134	1	FILLER	<b>Filler</b>			Blank	
135	1	METRORES	<b>Metropolitan Residence County</b>		U,R	1 2 Z	Metropolitan County Nonmetropolitan County Foreign resident
136	1	FILLER	<b>Filler</b>			Blank	
137	1	RECTYPE	<b>Record Type</b>		U,R	1 2	RESIDENT: State and county of occurrence and residence are the same. NONRESIDENT: State and county of occurrence and residence are different.
138	1	RESTATUS	<b>Residence Status</b>		U,R		
		*U,R	Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
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		R	Includes data based on the 2003 Revision of the U.S. Certificate of Live Birth; excludes data based on the 1989 Revision.				

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			<u>United States</u>			1	RESIDENT: State and county of occurrence and residence are the same.
						2	INTRASTATE NONRESIDENT: State of occurrence and residence are the same but county is different.
						3	INTERSTATE NONRESIDENT: State of occurrence and residence are different but both are one of the 50 US states or District of Columbia.
						4	FOREIGN RESIDENT: The state of residence is not one of the 50 US states or District of Columbia.
			<u>Possessions</u>			1	RESIDENT: State and county of occurrence and residence are the same. (Unique to Guam, all US residents are considered residents of Guam and thus are assigned 1.)
						2	INTRATERRITORY NONRESIDENT: Territory of occurrence and residence are the same but county is different.
						3	INTERTERRITORY RESIDENT: Territory of occurrence and residence are different but both are US Territories.
						4	FOREIGN RESIDENT: The residence is not a US Territory.
139-140	2	MBRACE	<b>Mother's Bridged Race</b>		R**	01 02 03 04 05 06 07 08 09 10 11 12 13 14 21 22 23 24 Blank	White – single race Black – single race American Indian / Alaskan Native – single race Asian Indian – single race Chinese – single race Filipino – single race Japanese – single race Korean – single race Vietnamese – single race Other Asian – single race Hawaiian – single race Guamanian – single race Samoan – single race Other Pacific Islander – single race White – bridged multiple race Black – bridged multiple race American Indian / Alaskan Native – bridged multiple race Asian / Pacific Islander – bridged multiple race Not on certificate

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
			** Also includes unrevised states that are reporting multiple race				
141-142	2	MRACE	<b>Mother's Race</b>		U		
			<u>United States</u>			01	White
						02	Black
						03	American Indian / Alaskan Native
						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 / Pacific Islander in areas reporting codes 18-58.
						78	Combined other Asian / Pacific Islander, includes 18-68 for areas that do not report them separately.
						Blank	Not on certificate
			<u>Puerto Rico</u>			01	White
						02	Black
						00	Other races
						Blank	Not on certificate
			<u>Guam</u>			01	White
						02	Black
						03	American Indian / Alaskan Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						58	Gumanian
						Blank	Not on certificate
			<u>All other Territories</u>			01	White
						02	Black

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

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						7	Non-Hispanic Black
						8	Non-Hispanic Other Races
						9	Origin unknown or not stated
150-152	3	FILLER	<b>Filler</b>			Blank	
153	1	MAR	<b>Mother's Marital Status</b>	652	U,R		
			<u>United States &amp; all non-Puerto Rican Territories</u>			1	Yes
						2	No
						9	Unknown or not Stated
			<u>Puerto Rico</u>			1	Yes
						2	Unmarried parents living together
						3	Unmarried parents not living together
						9	Unknown or not stated
154	1	MAR_IMP	<b>Mother's Marital Status Imputed Flag</b>		U,R	Blank	Marital Status not imputed
						1	Marital Status imputed
155	1	MEDUC	<b>Mother's Education</b>	571	R	1	8 <sup>th</sup> grade or less
						2	9 <sup>th</sup> through 12 <sup>th</sup> grade with no diploma
						3	High school graduate or GED completed
						4	Some college credit, but not a degree
						5	Associate degree (AA,AS)
						6	Bachelor's degree (BA,AB,BS)
						7	Master's degree (BA,AB,BS)
						8	Doctorate (PHD, EdD) or Professional Degree (MD, DDS, DVM, LLB,JD)
						9	Unknown
						Blank	Not on certificate
156-157	2	UMEDUC	<b>Mother's Education</b>	647	U	00	No formal education
						01-08	Years of elementary school
						09	1 year of high school
						10	2 years of high school
						11	3 years of high school
						12	4 years of high school
						13	1 year of college
						14	2 years of college

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						15	3 years of college
						16	4 years of college
						17	5 or more years of college
						99	Not stated
						Blank	Not on certificate
158	1	MEDUC_REC	<b>Mother's Education Recode</b>	647	U	1	0 – 8 years
						2	9 – 11 years
						3	12 years
						4	13 – 15 years
						5	16 years and over
						6	Not stated
						Blank	Not on certificate
159-174	16	FILLER	<b>Filler</b>			Blank	
175	1	RAGERPT_FLG	<b>Father's Reported Age Used</b>		U,R	Blank	Father's reported age not used
						1	Father's reported age used
176-177	2	FAGERPT	<b>Father's Reported Age</b>		U,R	09-98	Father's reported age in years
						99	Unknown or not stated
178-183	6	FILLER	<b>Filler</b>			Blank	
184-185	2	UFAGECOMB	<b>Father's Combined Age</b>		U	10-98	Father's combined age in years
						99	Unknown or not stated
						Blank	Not on certificate
186-187	2	FAGEREC11	<b>Father's Age Recode 11</b>		U,R	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
						11	Not stated

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
188-189	2	FBRACE	<b>Father's Bridged Race</b>		R*	01 02 03 04 05 06 07 08 09 10 11 12 13 14 21 22 23 24 99 Blank	White – single race Black – single race American Indian / Alaskan Native – single race Asian Indian – single race Chinese – single race Filipino – single race Japanese – single race Korean – single race Vietnamese – single race Other Asian – single race Hawaiian – single race Guamanian – single race Samoan – single race Other Pacific Islander – single race White – bridged multiple race Black – bridged multiple race American Indian / Alaskan Native – bridged multiple race Asian / Pacific Islander – bridged multiple race Unknown or not stated, also includes states not reporting multiple race. Not on certificate
			* Also includes unrevised states that are reporting multiple race				
190	1	FRACEIMP	<b>Father's Race Imputed</b>		U	Blank 3	Father's race not imputed Father's race imputed
191	1	FRACEREC	<b>Father's Race Recode</b>		U,R		
			<u>United States and non-Puerto Rican Territories</u>			1 2 3 4 9	White Black American Indian / Alaskan Native Asian / Pacific Islander Unknown or not stated
			<u>Puerto Rico</u>			1 2 9 0	White Black Unknown or not stated Other (not classified as White or Black)

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
192-194	3	FILLER	<b>Filler</b>			Blank	
195	1	UFHISP	<b>Father's Hispanic Origin</b>	570	U,R	0 1 2 3 4 5 9	Non-Hispanic Mexican Puerto Rican Cuban Central American Other and Unknown Hispanic Origin unknown or not stated
196	1	FRACEHISP	<b>Father's Race/Hispanic Origin</b>	570	U,R	1 2 3 4 5 6 7 8 9	Mexican Puerto Rican Cuban Central or South American Other and Unknown Hispanic Non-Hispanic White Non-Hispanic Black Non-Hispanic Other Races Origin unknown or not stated
197-198	2	FILLER	<b>Filler</b>			Blank	
199-200	2	FRACE	<b>Father's Race</b> <u>United States</u>		U	01 02 03 04 05 06 07 18 28 38 48 58 68 78	White Black American Indian / Alaskan Native Chinese Japanese Hawaiian (includes part Hawaiian) Filipino Asian Indian Korean Samoan Vietnamese Guamanian Other Asian / Pacific Islander in areas reporting codes 18-58. Combined other Asian / Pacific Islander, includes 18-68

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
							for areas that do not report them separately.
						99	Unknown or not stated
						Blank	Not on certificate
			<u>Puerto Rico</u>			01	White
						02	Black
						00	Other races
						99	Unknown or not stated
						Blank	Not on certificate
			<u>Guam</u>			01	White
						02	Black
						03	American Indian / Alaskan Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						58	Gumanian
						99	Unknown or not stated
						Blank	Not on certificate
			<u>All other Territories</u>			01	White
						02	Black
						03	American Indian / Alaskan Native
						04	Chinese
						05	Japanese
						06	Hawaiian (includes part Hawaiian)
						07	Filipino
						08	Other Asian or Pacific Islander
						99	Unknown or not stated
						Blank	Not on certificate
201-203	3	FILLER	<b>Filler</b>			Blank	
204-205	2	PRIORLIVE	<b>Prior Births Now Living</b>		U,R	00-30	Number of children still living from previous live births.
						99	Unknown or not stated
206-207	2	PRIORDEAD	<b>Prior Births Now Dead</b>		U,R	00-30	Number of children dead from
*U,R			Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						99	previous live births. Unknown or not stated
208-209	2	PRIORTERM	<b>Prior Other Terminations</b>		U,R	00-30 99	Number other terminations Unknown or not stated
210-211	2	LBO	<b>Live Birth Order</b>		U,R	01-31 99	Sum of all previous live births (now living and now dead) plus this one. Unknown or not stated
212	1	LBO_REC	<b>Live Birth Order Recode</b>		U,R	1-7 8 9	Number of live birth order 8 or more live births Unknown or not stated
213-214	2	FILLER	<b>Filler</b>			Blank	
215-216	2	TBO	<b>Total Birth Order</b>		U,R	01-40 99	Sum of all previous pregnancies plus this one Unknown or not stated
217	1	TBO_REC	<b>Total Birth Order Recode</b>		U,R	1-7 8 9	Number of total birth order 8 or more total births Unknown or not stated
218-219	2	FILLER	<b>Filler</b>			Blank	
220-221	2	DLLB_MM	<b>Date of Last Live Birth - Month</b>		U,R	01 02 03 04 05 06 07 08 09 10 11 12 88	January February March April May June July August September October November December Not applicable

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						99	Unknown or not stated
222-225	4	DLLB_YY	<b>Date of Last Live Birth - Year</b>		U,R	nnnn 8888 9999	Year of last live birth Not applicable Unknown or not stated
226-244	19	FILLER	<b>Filler</b>			Blank	
245-246	2	PRECARE	<b>Month Prenatal Care Began</b>				
			668		R	00 01-10 99 Blank	No prenatal care Month prenatal care began Unknown or not stated Not on certificate
247	1	PRECARE_REC	<b>Month Prenatal Care Began Recode</b>				
			668		R	1 2 3 4 5 Blank	1 <sup>st</sup> to 3 <sup>rd</sup> month 4 <sup>th</sup> to 6 <sup>th</sup> month 7 <sup>th</sup> to final month No prenatal care Unknown or not stated Not on certificate
248-255	8	FILLER	<b>Filler</b>			Blank	
256-257	2	MPCB	<b>Month Prenatal Care Began</b>				
			669		U	00 01-10 99 Blank	No prenatal care Month prenatal care began Unknown or not stated Not on certificate
258	1	MPCB_REC6	<b>Month Prenatal Care Began Recode 6</b>				
			669		U	1 2 3 4 5 6 Blank	1 <sup>st</sup> to 2 <sup>nd</sup> month 3 <sup>rd</sup> month 4 <sup>th</sup> to 6 <sup>th</sup> month 7 <sup>th</sup> to final month No prenatal care Unknown or not stated Not on certificate
259	1	MPCB_REC5	<b>Month Prenatal Care Began Recode 5</b>				
		*U,R	Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).				
		U	Includes data based on the 1989 Revision of the U.S. Certificate of Live Birth; excludes data based on the 2003 Revision.				
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Position	Len	Field	Description	Reporting Flag Position 669	Rev*	Values	Definition
					U	1 2 3 4 5 Blank	1 <sup>st</sup> trimester (1 <sup>st</sup> to 3 <sup>rd</sup> month) 2 <sup>nd</sup> trimester (4 <sup>th</sup> to 6 <sup>th</sup> month) 3 <sup>rd</sup> trimester (7 <sup>th</sup> to final month) No prenatal care Unknown or not stated Not on certificate
260-269	10	FILLER	<b>Filler</b>			Blank	
270-271	2	UPREVIS	<b>Number of Prenatal Visits</b>		U,R	00-49 99	Number of prenatal visits Unknown or not stated
272-273	2	PREVIS_REC	<b>Number of Prenatal Visits Recode</b>		U,R	01 02 03 04 05 06 07 08 09 10 11 12	No visits 1 to 2 visits 3 to 4 visits 5 to 6 visits 7 to 8 visits 9 to 10 visits 11 to 12 visits 13 to 14 visits 15 to 16 visits 17 to 18 visits 19 or more visits Unknown or not stated
274-275	2	FILLER	<b>Filler</b>			Blank	
276-277	2	WTGAIN	<b>Weight Gain</b>	648	U,R	00-97 98 99	Weight gain in pounds 98 pounds and over Unknown or not stated
278	1	WTGAIN_REC	<b>Weight Gain Recode</b>	648	U,R	1 2 3 4 5 6 7 8 9	Less than 16 pounds 16 to 20 pounds 21 to 25 pounds 26 to 30 pounds 31 to 35 pounds 36 to 40 pounds 41 to 45 pounds 46 or more pounds Unknown or not stated

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
279-281	3	FILLER	<b>Filler</b>			Blank	
282-283	2	CIG_0	<b>Cigarettes Before Pregnancy</b>		R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
284-285	2	CIG_1	<b>Cigarettes 1<sup>st</sup> Trimester</b>		R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
286-287	2	CIG_2	<b>Cigarettes 2<sup>nd</sup> Trimester</b>		R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
288-289	2	CIG_3	<b>Cigarettes 3<sup>rd</sup> Trimester</b>		R	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
290	1	TOBUSE	<b>Tobacco Use</b>	667	U	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
291-292	2	CIGS	<b>Cigarettes per Day</b>		U	00-97 98 99 Blank	Number of cigarettes daily 98 or more cigarettes daily Unknown or not stated Not on certificate
293	1	CIG_REC6	<b>Cigarette Recode</b>		U	0 1 2 3 4 5 6	Non-smoker 1 to 5 cigarettes daily 6 to 10 cigarettes daily 11 to 20 cigarettes daily 21 to 40 cigarettes daily 41 or more cigarettes daily Unknown or not stated

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Public Use – Detail Natality Record

Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						Blank	Not on certificate
294	1	CIG_REC	<b>Cigarette Recode</b>	575	R	Y N U Blank	Yes No Unknown or not stated Not on certificate
295	1	ALCOHOL	<b>Alcohol Use</b>	649	U	1 2 9 Blank	Yes No Unknown or not stated Not on certificate
296-297	2	DRINKS	<b>Drinks per Week</b>	649	U	00-97 98 99 Blank	Number of drinks weekly 98 or more drinks weekly Unknown or not stated Not on certificate
298	1	DRINKS_REC	<b>Drinks Recode</b>	649	U	0 1 2 3 4 5 Blank	Non drinker 1 drink per week 2 drinks per week 3-4 drinks per week 5 or more drinks per week Unknown or not stated Not on certificate
299-327	29	FILLER	<b>Filler</b>			Blank	
328-344	17	<b><u>Risk Factors</u></b>					
		The checkbox items indented below follow this structure:					
		The version is all 1989 Standard unless otherwise noted.					
						1 2 8 9	Yes No Not on certificate Unknown
328	1	URF_ANEMIA	Anemia		U		
329	1	URFARDC	Cardiac		U		
330	1	URF_LUNG	Acute or Chronic Lung Disease		U		
331	1	URF_DIAB	Diabetes		U,R		
332	1	URF_GEN	Genital Herpes		U		
333	1	URF_HYDR	Hydramnios / Oligohydramnios		U		
334	1	URF_HEMO	Hemoglobinopathy		U		
335	1	URF_CHYPER	Chronic Hypertension		U,R		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
336	1	URF_PHYPER	Pregnancy Associated Hypertension		U,R		
337	1	URF_ECLAM	Eclampsia		U,R		
338	1	URF_INCERV	Incompetent Cervix		U		
339	1	URF_PRE4000	Previous Infant 4000+ Grams		U		
340	1	URF_PRETERM	Previous Preterm Small for Gestation		U		
341	1	URF_RENAL	Renal Disease		U		
342	1	URF_RH	Rh Sensitization		U		
343	1	URF_UTERINE	Uterine Bleeding		U		
344	1	URF_OTHER	Other medical risk factors		U		
345-354	10	FILLER	<b>Filler</b>			Blank	
355-361	7	<b><u>Obstetric Procedures</u></b>					
		The checkbox items indented below follow this structure:				1	Yes
		The version is all 1989 Standard unless otherwise noted.				2	No
						8	Not on certificate
						9	Unknown or not stated
355	1	UOP_AMNIO	Amniocentesis		U		
356	1	UOP_MONIT	Electronic Fetal Monitoring		U		
357	1	UOP_INDUC	Induction of Labor		U,R		
358	1	UOP_STIML	Stimulation of Labor		U		
359	1	UOP_TOCOL	Tocolysis		U,R		
360	1	UOP_ULTRA	Ultrasound		U		
361	1	UOP_OTHER	Other Obstetric Procedures		U		
362-373	12	FILLER	<b>Filler</b>			Blank	
374-389	16	<b><u>Complications of Labor and Delivery</u></b>					
		The checkbox items indented below follow this structure:				1	Yes
		The version is all 1989 Standard unless otherwise noted.				2	No
						8	Not on certificate
						9	Unknown or not stated
374	1	ULD_FEBR	Febrile		U		
375	1	ULD_MECO	Meconium		U,R		
376	1	ULD_RUPTR	Premature Rupture of Membrane		U		
377	1	ULD_ABRUP	Abruptio Placenta		U		
378	1	ULD_PREPLA	Placenta Previa		U		
379	1	ULD_EXCBL	Other Excessive Bleeding		U		
380	1	ULD_SEIZ	Seizures During Labor		U		
381	1	ULD_PRECIP	Precipitous Labor		U,R		

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
382	1	ULD_PROLG	Prolonged Labor		U		
383	1	ULD_DYSFN	Dysfunctional Labor		U		
384	1	ULD_BREECH	Breech		U,R		
385	1	ULD_CEPHAL	Cephalopelvic Disproportion		U		
386	1	ULD_CORD	Cord Prolapse		U		
387	1	ULD_ANEST	Anesthetic Complications		U		
388	1	ULD_DISTR	Fetal Distress		U		
389	1	ULD_OTHER	Other Complications		U		
390-394	5	FILLER	<b>Filler</b>			Blank	
395-400	6	<b><u>Method of Delivery</u></b> The checkbox items indented below follow this structure:				1 2 8 9	Yes No Not on certificate Unknown or not stated
395	1	UME_VAG	Vaginal		U,R		
396	1	UME_VBAC	Vaginal after C-Section		U,R		
397	1	UME_PRIMC	Primary C-Section		U,R		
398	1	UME_REPEC	Repeat C-Section		U,R		
399	1	UME_FORCP	Forceps		U,R		
400	1	UME_VAC	Vacuum		U,R		
401	1	DMETH_REC	<b>Delivery Method Recode</b>		U,R	1 2 3 4 5 6 7	Vaginal (excludes vaginal after previous C-section) Vaginal after previous c-section Primary C-section Repeat C-section Not stated Vaginal (unknown if previous c-section) (2003 Standard only) C-section (unknown if previous c-section) (2003 Standard only)
402-407	6	FILLER	<b>Filler</b>			Blank	
408	1	ATTEND	<b>Attendent</b>		U,R	1 2 3 4	Doctor of Medicine (MD) Doctor of Osteopathy (DO) Certified Nurse Midwife (CNM) Other Midwife

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						5	Other
						9	Unknown or not stated
409-414	6	FILLER	<b>Filler</b>			Blank	
415-416	2	APGAR5	<b>Five Minute APGAR Score</b>	574	U,R	00-10 99	A score of 0-10 Unknown or not stated
417	1	APGAR5R	<b>Five Minute APGAR Recode</b>	574	U,R	1 2 3 4 5	A score of 0-3 A score of 4-6 A score of 7-8 A score of 9-10 Unknown or not stated
418-422	5	FILLER	<b>Filler</b>			Blank	
423	1	DPLURAL	<b>Plurality Recode</b>		U,R	1 2 3 4 5	Single Twin Triplet Quadruplet Quintuplet or higher
424	1	FILLER	<b>Filler</b>			Blank	
425	1	IMP_PLUR	<b>Plurality Imputed</b>		U,R	Blank 1	Plurality is imputed Plurality is not imputed
426-435	10	FILLER	<b>Filler</b>			Blank	
436	1	SEX	<b>Sex of Infant</b>		U,R	M F	Male Female
437	1	IMP_SEX	<b>Imputed Sex</b>		U,R	Blank 1	Infant Sex not Imputed Infant Sex is Imputed
438-439	2	DLMP_MM	<b>Last Normal Menses - Month</b>			U,R 01 02 03	January February March

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
						04	April
						05	May
						06	June
						07	July
						08	August
						09	September
						10	October
						11	November
						12	December
						99	Unknown or not stated
440-441	2	DLMP_DD	<b>Last Normal Menses - Day</b>		U,R	01-31	As applicable to month of LMP
						99	Unknown or not stated
442-445	4	DLMP_YY	<b>Last Normal Menses - Year</b>		U,R	nnnn	Year of last normal menses
						9999	Unknown or not stated
446-447	2	ESTGEST	<b>Obstetric/Clinical Gestation Est.</b> 573		U,R	17-47	17 <sup>th</sup> through 47 <sup>th</sup> week of gestation
						99	Unknown or not stated
448-450	3	FILLER	<b>Filler</b>			Blank	
451-452	2	COMBGEST	<b>Gestation – Detail in Weeks</b>		U,R	17-47	17 <sup>th</sup> through 47 <sup>th</sup> week of Gestation
						99	Unknown
453-454	2	GESTREC10	<b>Gestation Recode 10</b>		U,R	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	Unknown
455	1	GESTREC3	<b>Gestation Recode 3</b>		U,R	1	Under 37 weeks
						2	37 weeks and over
						3	Not stated

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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
456	1	OBGEST_FLG	<b>Clinical Estimate of Gestation Used Flag</b>		U,R	Blank 1	Clinical Estimate is not used Clinical Estimate is used
457	1	GEST_IMP	<b>Gestation Imputed Flag</b>		U,R	Blank 1	Gestation is not imputed Gestation is imputed
458-462	5	FILLER	<b>Filler</b>			Blank	
463-466	4	DBWT	<b>Birth Weight – Detail in Grams</b>		U,R	0227-8165	Number of grams
467-470	4	FILLER	<b>Filler</b>			Blank	
471-472	2	BWTR12	<b>Birth Weight Recode 12</b>		U,R	01 02 03 04 05 06 07 08 09 10 11 12	499 grams or less 500 – 999 grams 1000 - 1499 grams 1500 – 1999 grams 2000 – 2499 grams 2500 – 2999 grams 3000 – 3400 grams 3500 – 3999 grams 4000 – 4499 grams 4500 – 4999 grams 5000 – 8165 grams Not Stated
473	1	BWTR4	<b>Birth Weight Recode 4</b>		U,R	1 2 3 4	1499 grams or less 1500 – 2499 grams 2500 grams or more Unknown or not stated
474-482	9	FILLER	<b>Filler</b>			Blank	
483-491	9	<b><u>Abnormal Conditions of the Newborn (Unrevised)</u></b> The checkbox items indented below follow this structure:				1 2 8 9	Complication reported Complication not reported Complication not on certificate Complication not classifiable
483	1	UAB_ANEM	Anemia		U		
484	1	UAB_INJURY	Birth Injury		U		
485	1	UAB_ALCOH	Fetal Alcohol Syndrome		U		
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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition	
486	1	UAB_HYAL	Hyaline Membrane Disease		U			
487	1	UAB_MECON	Meconium Aspiration Syndrome		U			
488	1	UAB_VENL30	Assisted Ventilation < 30 min		U			
489	1	UAB_VEN30M	Assisted Ventilation >= 30 min		U			
490	1	UAB_NSEIZ	Seizures		U			
491	1	UAB_OTHER	Other Abnormal Conditions		U			
492-503	12	FILLER	<b>Filler</b>				Blank	
504-525	22	<b><u>Congenital Anomalies of the Newborn</u></b>						
		The checkbox items indented below follow this structure:				1	Anomaly reported	
		The version is all 1989 Standard unless otherwise noted.				2	Anomaly not reported	
						8	Anomaly not on certificate	
						9	Anomaly not classifiable	
504	1	UCA_ANEN	Anencephalus		U,R			
505	1	UCA_SPINA	Spina Bifida / Meningocele		U,R			
506	1	UCA_HYDRO	Hydrocephalus		U			
507	1	UCA_MICRO	Microcephalus		U			
508	1	UCA_NERV	Other Central Nervous System Anomalies		U			
509	1	UCA_HEART	Heart Malformations		U			
510	1	UCA_CIRC	Other Circulatory / Respiration Anomalies		U			
511	1	UCA_RECTAL	Rectal Atresia / Stenosis		U			
512	1	UCA_TRACH	Tracheo-Esophageal Fistula		U			
513	1	UCA_OMPHA	Omphalocele / Gastroschisis		U,R			
514	1	UCA_GASTRO	Other Gastrointestinal Anomalies		U			
515	1	UCA_GENITAL	Malformed Genitalia		U			
516	1	UCA_RENAL	Renal Agenesis		U			
517	1	UCA_UROGEN	Other Urogenital Anomalies		U			
518	1	UCA_CELFTLP	Cleft Lip / Palate		U,R			
519	1	UCA_ADACTY	Polydactyly / Syndactyly / Adactyly		U			
520	1	UCA_CLUBFT	Club Foot		U			
521	1	UCA_HERNIA	Diaphragmatic Hernia		U			
522	1	UCA_MUSCU	Other Musculoskeletal Anomalies		U			
523	1	UCA_DOWNS	Down Syndrome		U,R			
524	1	UCA_CHROM	Other Chromosomal Anomalies		U			
525	1	UCA_OTHER	Other Congenital Anomalies		U			
526-568	43	FILLER	<b>Filler</b>				Blank	
569-667	99	<b><u>Flag File for Reporting Flags</u></b>						
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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition	
			The reporting flags below follow this coding structure:			0	Not reporting	
					1	Reporting		
569	1	F_MORIGIN	Origin of Mother		U,R			
570	1	F_FORIGIN	Origin of Father		U,R			
571	1	F_MEDUC	Education of Mother		R			
572	1	FILLER	<b>Filler</b>			Blank		
573	1	F_CLINEST	Clinical Estimate of Gestation		U,R			
574	1	F_APGAR5	Five minute APGAR		U,R			
575	1	F_TOBACO	Tobacco use		R			
576-646	71	FILLER	<b>Filler</b>			Blank		
647	1	F_MED	Mother's Education		U			
648	1	F_WTGAIN	Weight Gain		U,R			
649	1	F_ALCOL	Alcohol use		U			
650	1	F_API	API Codes		U			
651-666	16	FILLER	<b>Filler</b>			Blank		
667	1	F_TOBAC	Tobacco Use		U			
668	1	F_MPCB	Month Prenatal Care Began		R			
669	1	F_MPCB_U	Month Prenatal Care Began		U			
670-937	268	FILLER	<b>Filler</b>			Blank		
938-961	24	<b><u>Mother's Race Edited</u></b>			R**	100-999	Mother's Race Edited Code	
938	3	MRACE1E				A00-R99	(A complete list of race codes is available further	
941	3	MRACE2E					back in this document and at	
944	3	MRACE3E					<a href="http://www.cdc.gov/nchs/data/dvs/RaceCodeList.pdf">http://www.cdc.gov/nchs/data/dvs/RaceCodeList.pdf</a> .)	
947	3	MRACE4E						
950	3	MRACE5E						
953	3	MRACE6E						
956	3	MRACE7E						
959	3	MRACE8E						
			** Also includes unrevised states that are reporting multiple race					
962-1271	310	FILLER	<b>Filler</b>			Blank		
1272-1295	24	<b><u>Father's Race Edited</u></b>			R**	100-999	Father's Race Edited Code	
1272	3	FRACE1E				A00-R99	(A complete list of race codes is available further	
1275	3	FRACE2E					back in this document and at	
1278	3	FRACE3E					<a href="http://www.cdc.gov/nchs/data/dvs/RaceCodeList.pdf">http://www.cdc.gov/nchs/data/dvs/RaceCodeList.pdf</a> .)	
*U,R		Includes data based on both the 1989 Revision of the U.S. Certificate of Live Birth (unrevised), and the 2003 Revision of the U.S. Certificate of Live Birth (revised).						
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Position	Len	Field	Description	Reporting Flag Position	Rev*	Values	Definition
1281	3	FRACE4E					
1284	3	FRACE5E					
1287	3	FRACE6E					
1290	3	FRACE7E					
1293	3	FRACE8E					
			** Also includes unrevised states that are reporting multiple race				
1296-1350	55	FILLER	<b>Filler</b>			Blank	

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### Map from 2003 to 2002 File Positions

Field	Description	File Position	
		2003	2002
RECWT	Record Weight	8	7
DOB_YY	Birth Year	15-18	1-4
DOB_MM	Birth Month	19-20	172-173
DOB_WK	Weekday	29	180
OSTATE	Occurrence State	30-31	16-17
XOSTATE	Expanded Occurrence State	32-33	14-15
OCNTYFIPS	Occurrence FIPS County	37-39	23-25
OCNTYPOP	Occurrence County Population	40	26
UBFACIL	Birth Place	42	8
BFACIL3	Birth Place Recode	59	9
UMAGERPT	Mother's Reported Age	77-78	91-92
MAGE_IMPFLG	Mother's Age Imputed	87	69
MAGE_REPFLG	Reported Age of Mother Flag	88	68
MAGER41	Mother's Age Recode 41	89-90	72-73
MAGER14	Mother's Age Recode 14	91-92	74-75
MAGER9	Mother's Age Recode 9	93	76
UMBSTATE	Mother's Birth State	96-97	88-89
MBSTATE_REC	Mother's Birth State Recode	100	90
XMRSTATE	Expanded State of Residence of Mother	107-108	30-31
MRSTATE	Mother's Residence State	109-110	42-43
MRCNTYFIPS	Mother's FIPS County	114-116	44-46
MRCITYFIPS	Mother's Residence City	120-124	47-51
CMSA	Metro Statistical Areas	125-126	52-53
MSA	FIPS Statistical Areas	127-130	54-57
MSA_POP	Population of Statistical Area	131	350
RCNTY_POP	Population of Residence County	132	58
RCITY_POP	Population of Residence City	133	40
METRORES	Metropolitan Residence County	135	41
RECTYPE	Record Type	137	5
RESTATUS	Residence Status	138	6
MRACEREC	Mother's Race Recode	143	82
MRACEIMP	Mother's Race Imputed	144	79
UMHISP	Mother's Hispanic Origin	148	77
MRACEHISP	Mother's Race / Hispanic Origin	149	78
MAR	Mother's Marital Status	153	87
MAR_IMP	Mother's Marital Status Imputed	154	86
UMEDUC	Mother's Education	156-157	83-84
MEDUC_REC	Mother's Education Recode	158	85
FLG_RFAGE	Father's Reported Age Used	175	153
FAGERPT	Father's Reported Age	176-177	166-167
UFAGECOMB	Father's Age	184-185	154-155
FAGEREC11	Father's Age Recode	186-187	156-157
FRACEIMP	Father's Race Imputed	190	168
FRACEREC	Father's Race Recode	191	162
UFHISP	Father's Hispanic Origin	195	158
FRACEHISP	Father's Race / Hispanic Origin	196	159
PRIORLIVE	Prior Births Now Living	204-205	94-95
PRIORDEAD	Prior Births Now Dead	206-207	96-97

### Map from 2003 to 2002 File Positions

Field	Description	File Position	
		2003	2002
PRIORTERM	Prior Other Terminations	208-209	98-99
LBO	Live Birth Order	210-211	100-101
LBO_REC	Live Birth Order Recode	212	102
TBO	Total Birth Order	215-216	103-104
TBO_REC	Total Birth Order Recode	217	105
DLLB_MM	Date of Last Live Birth - Month	220-221	122-123
DLLB_YY	Date of Last Live Birth - Year	222-225	124-127
MPCB	Month Prenatal Care Began	256-257	106-107
MPCB_REC6	Month Care Began Recode 6	258	108
MPCB_REC5	Month Care Began Recode 5	259	109
UPREVIS	Number of Prenatal Visits	270-271	110-111
PREVIS_REC	Number of Prenatal Visits Recode	272-273	112-113
WTGAIN	Weight Gain	276-277	250-251
WTGAIN_REC	Weight Gain Recode	278	252
TOBUSE	Tobacco Use	290	242
CIGS	Cigarettes Per Day	291-292	243-244
CIG_REC6	Cigarettes Recode	293	245
ALCOHOL	Alcohol Use	295	246
DRINKS	Drinks Per Week	296-297	247-248
DRINKS_REC	Drinks Recode	298	249
URF_ANEMIA	Anemia	328	225
URF_CARDC	Cardiac	329	226
URF_LUNG	Acute or Chronic Lung Disease	330	227
URF_DIAB	Diabetes	331	228
URF_GEN	Genital Herpes	332	229
URF_HYDR	Hydramnios / Oligohydramnios	333	230
URF_HEMO	Hemoglobinopathy	334	231
URF_CHYPER	Chronic Hypertension	335	232
URF_PHYPER	Pregnancy Associated Hypertension	336	233
URF_ECLAM	Eclampsia	337	234
URF_INCERV	Incompetent Cervix	338	235
URF_PRE4000	Previous Infant 4000+ Grams	339	236
URF_PRETERM	Previous Preterm Small for Gestation	340	237
URF_RENAL	Renal Disease	341	238
URF_RH	Rh Sensitization	342	239
URF_UTERINE	Uterine Bleeding	343	240
URF_OTHER	Other Medical Risks Factors	344	241
UOP_AMNIO	Amniocentesis	355	253
UOP_MONIT	Electronic Fetal Monitoring	356	254
UOP_INDUC	Induction of Labor	357	255
UOP_STIML	Stimulation of Labor	358	256
UOP_TOCOL	Tocolysis	359	257
UOP_ULTRA	Ultrasound	360	258
UOP_OTHER	Other Obstetric Procedures	361	259
ULD_FEBR	Febrile	374	260
ULD_MECO	Meconium	375	261
ULD_RUPTR	Premature Rupture of Membrane	376	262
ULD_ABRUP	Abruptio Placenta	377	263
ULD_PREPLA	Placenta Previa	378	264

### Map from 2003 to 2002 File Positions

Field	Description	File Position	
		2003	2002
ULD_EXCBL	Other Excessive Bleeding	379	265
ULD_SEIZ	Seizures During Labor	380	266
ULD_PRECIP	Precipitous Labor	381	267
ULD_PROLG	Prolonged Labor	382	268
ULD_DYSFN	Dysfunctional Labor	383	269
ULD_BREECH	Breech	384	270
ULD_CEPHAL	Cephalopelvic Disproportion	385	271
ULD_CORD	Cord Prolapse	386	272
ULD_ANEST	Anesthetic Complications	387	273
ULD_DISTR	Fetal Distress	388	274
ULD_OTHER	Other Complications	389	275
UME_VAG	Vaginal	395	217
UME_VBAC	Vaginal After C-section	396	218
UME_PRIMC	Primary C-section	397	219
UME_REPEC	Repeat C-section	398	220
UME_FORCP	Forceps	399	221
UME_VAC	Vacuum	400	222
DMETH_REC	Delivery Method Recode	401	224
ATTEND	Attendant	408	10
APGAR5	Five Minute APGAR Score	415-416	205-206
APGAR5R	Five Minute APGAR Score Recode	417	207
DPLURAL	Plurality Recode	423	201
IMP_PLUR	Plurality Imputed	425	200
SEX	Sex of Infant	436	189
IMP_SEX	Sex Imputed	437	188
DLMP_MM	Last Normal Menses - Month	438-439	114-115
DLMP_DD	Last Normal Menses - Day	440-441	116-117
DLMP_YY	Last Normal Menses - Year	442-445	118-121
ESTGEST	Obstetric / Clinical Gestation Estimate	446-447	208-209
COMBGEST	Gestation - Detail in Weeks	451-452	183-184
GESTREC10	Gestation Recode 10	453-454	185-186
GESTREC3	Gestation Recode 3	455	187
OBGEST_FLG	Estimate of Gestation Used Flag	456	181
GEST_IMP	Gestation Imputed Flag	457	182
DBWT	Birth Weight - Detail in Grams	463-466	193-196
BWTR12	Birth Weight Recode 12	471-472	197-198
BWTR4	Birth Weight Recode 4	473	199
UAB_ANEM	Anemia	483	276
UAB_INJURY	Birth Injury	484	277
UAB_ALCOH	Fetal Alcohol Syndrome	485	278
UAB_HYAL	Hyaline Membrane Disease	486	279
UAB_MECON	Meconium Aspiration Syndrome	487	280
UAB_VENL30	Assisted ventilation < 30 min	488	281
UAB_VEN30M	Assisted ventilation >= 30 min	489	282
UAB_NSEIZ	Seizures	490	283
UAB_OTHER	Other Abnormal Conditions	491	284
UCA_ANEN	Anencephalus	504	285
UCA_SPINA	Spina bifida / Meningocele	505	286
UCA_HYDRO	Hydrocephalus	506	287

### Map from 2003 to 2002 File Positions

Field	Description	File Position	
		2003	2002
UCA_MICRO	Microcephalus	507	288
UCA_NERV	Other Central Nervous Syst Anomalies	508	289
UCA_HEART	Heart Malformations	509	290
UCA_CIRC	Other Circulatory / Respirat Anomalies	510	291
UCA_RECTAL	Rectal Atrseia / Stenosis	511	292
UCA_TRACH	Tracheo-esohpageal Fistual	512	293
UCA_OMPHA	Omphalocele / Gastroschisis	513	294
UCA_GASTRO	Other Gastrointestinal Anomalies	514	295
UCA_GENITAL	Malformed genitalia	515	296
UCA_RENAL	Renal Agenesis	516	297
UCA_UROGEN	Other Urogenital Anomalies	517	298
UCA_CELFTLP	Cleft Lip / Palate	518	299
UCA_ADACTY	Polydactyly / Syndactly / Adactyly	519	300
UCA_CLUBFT	Club Foot	520	301
UCA_HERNIA	Diaphramatic Hernia	521	302
UCA_MUSCU	Other Musculoskeletal Anomalies	522	303
UCA_DOWNS	Down Syndrome	523	304
UCA_CHROM	Other Chromosomal Anomalies	524	305
UCA_OTHER	Other Congenital Anomalies	525	306
F_MORIGIN	Origin of Mother	569	307
F_FORIGIN	Origin of Father	570	308
F_CLINEST	Clinical Estimate of Gestation	573	311
F_APGAR5	Five Minute APGAR	574	313
F_MED	Mother's Education	647	309
F_WTGAIN	Weight Gain	648	318
F_ALCOL	Alcohol Use	649	543
F_API	API Codes	650	325
F_TOBAC	Tobacco Use	667	316



## 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. Federal Information Processing Standards (FIPS) geographic codes are used on the vital event public-use files. Codes are effective with the 2003 data year and are based on the 2000 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 is given below:

**State (St):** Each State and the District of Columbia are identified by the standard two-letter postal abbreviation. 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 2000.

**P/S:** Population size code for city/place of residence based on the 2000 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.

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/place.

Yavapai county, Arizona - State and county codes (FIPS): AZ 025.

Tupelo, Mississippi - State and city/place codes (FIPS): MS 74840; or State, county, city/place codes (FIPS): MS 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
AL							Alabama	AL				
	001	188	1				Autauga		001	5	5240	
				068	6		Millbrook, part					48712
				035	6		Prattville, part					62328
				999	9		Balance of county					99999
	002	184	1				Baldwin		003	3	5160	
				010	6		Daphne					19648
				058	6		Fairhope					25240
				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	999	9		Bibb		007	6	0000	
	005	032	1	999	9		Blount		009	4	1000	
	006	000	2	999	9		Bullock		011	6	0000	
	007	000	2	999	9		Butler		013	6	0000	
	008	012	1				Calhoun		015	3	0450	
				004	6		Anniston					01852
				063	6		Oxford, part					57576
				999	9		Balance of county					99999
	009	000	2	999	9		Chambers		017	5	0000	
	010	000	2	999	9		Cherokee		019	6	0000	
	011	000	2	999	9		Chilton		021	5	0000	
	012	000	2	999	9		Choctaw		023	6	0000	
	013	000	2	999	9		Clarke		025	5	0000	
	014	000	2	999	9		Clay		027	6	0000	
	015	000	2	999	9		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	
				062	6		Muscle Shoals					53016
				999	9		Balance of county					99999
	018	000	2	999	9		Conecuh		035	6	0000	
	019	000	2	999	9		Coosa		037	6	0000	
	020	000	2	999	9		Covington		039	5	0000	
	021	000	2	999	9		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				DeKalb		049	4	0000	
				017	6		Fort Payne					27616
				999	9		Balance of county					99999
	026	188	1				Elmore		051	4	5240	
				061	6		Millbrook, part					48712
				035	6		Prattville, part					62328
				999	9		Balance of county					99999
	027	000	2	999	9		Escambia		053	5	0000	
	028	105	1				Etowah		055	3	2880	
				018	5		Gadsden					28696
				999	9		Balance of county					99999
	029	000	2	999	9		Fayette		057	6	0000	
	030	000	2	999	9		Franklin		059	5	0000	
	031	000	2	999	9		Geneva		061	5	0000	
	032	000	2	999	9		Greene		063	9	0000	
	033	000	2	999	9		Hale		065	6	0000	
	034	000	2				Henry		067	6	0000	
				071	4		Dothan, part					21184
				999	9		Balance of county					99999
	035	077	1				Houston		069	4	2180	
				012	4		Dothan, part					21184
				999	9		Balance of county					99999
	036	000	2				Jackson		071	4	0000	
				038	6		Scottsboro					68736
				999	9		Balance of county					99999
	037	032	1				Jefferson		073	1	1000	
				007	5		Bessemer					05980

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
AL							Alabama	AL				
	037						Jefferson, con.		073	1	1000	
				008	3		Birmingham, part					07000
				015	6		Fairfield					25120
				059	6		Gardendale					29056
				067	6		Helena, part					34024
				020	5		Homewood					35800
				021	4		Hoover, part					35896
				022	6		Hueytown					36448
				026	6		Leeds, part					41968
				030	6		Mountain Brook					51696
				065	6		Trussville, part					76944
				046	6		Vestavia Hills					78552
				999	9		Balance of county					99999
	038	000	2	999	9		Lamar		075	6	0000	
	039	094	1				Lauderdale		077	4	2650	
				016	5		Florence					26896
				999	9		Balance of county					99999
	040	072	1	999	9		Lawrence		079	5	2030	
	041	000	2				Lee		081	3	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	4		Decatur, part					20104
				023	3		Huntsville, part					37000
				027	5		Madison, part					45784
				999	9		Balance of county					99999
	043	000	2	999	9		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	2	3440	
				023	3		Huntsville, part					37000
				027	5		Madison, part					45784
				999	9		Balance of county					99999
	046	000	2	999	9		Marengo		091	6	0000	
	047	000	2	999	9		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	999	9		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	4		Decatur, part					20104
				019	6		Hartselle					33448
				999	9		Balance of county					99999
	053	000	2	999	9		Perry		105	6	0000	
	054	000	2	999	9		Pickens		107	6	0000	
	055	000	2				Pike		109	5	0000	
				043	6		Troy					76920
				999	9		Balance of county					99999
	056	000	2	999	9		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	
				026	6		Leeds, part					41968
				069	6		Trussville, part					76944
				999	9		Balance of county					99999
	059	032	1				Shelby		117	3	1000	
				001	6		Alabaster					00820
				008	3		Birmingham, part					07000
				060	6		Helena, part					34024
				021	4		Hoover, part					35896
				026	6		Leeds, part					41968

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
AL						Alabama	AL				
	059					Shelby, con.		117	3	1000	
				064	6	Pelham					58848
				070	6	Vestavia Hills, part					78552
				999	9	Balance of county					99999
	060	000	2	999	9	Sumter		119	6	0000	
	061	000	2			Talladega		121	4	0000	
				066	6	Oxford, part					57576
				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
				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
AK						Alaska	AK				
001	000	2	999	9		Aleutians East	013	9	0000		
002	000	2	999	9		Aleutians West	016	9	0000		
003	010	1	001	2		Anchorage, coext. with Anchorage city	020	2	0380	03000	
004	000	2	999	9		Bethel	050	6	0000		
005	000	2	999	9		Bristol Bay	060	9	0000		
006	000	2	999	9		Dillingham	070	9	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	9	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	9	0000		
014	000	2	999	9		Matanuska-Susitna	170	4	0000		
015	000	2	999	9		Nome	180	9	0000		
016	000	2	999	9		North Slope	185	9	0000		
017	000	2	999	9		Northwest Arctic	188	9	0000		
018	000	2	999	9		Prince of Wales-Outer Ketchikan	201	9	0000		
019	000	2	999	9		Sitka	220	9	0000		
020	000	2	999	9		Skagway-Hoonah-Angoon	232	9	0000		
021	000	2	999	9		Southeast Fairbanks	240	9	0000		
022	000	2	999	9		Valdez-Cordova	261	6	0000		
023	000	2	999	9		Wade Hampton	270	9	0000		
024	000	2	999	9		Wrangell-Petersburg	280	9	0000		
025	000	2	999	9		Yakutat	282	9	0000		
026	000	2	999	9		Yukon-Koyukuk	290	9	0000		
027	000	2	999	9		Denali	068	9	0000		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
AZ						Arizona	AZ				
	001	000	2	999	9	Apache		001	4	0000	
	002	000	2			Cochise		003	3	0000	
				006	6	Douglas					20050
				020	5	Sierra Vista					66820
				999	9	Balance of county					99999
	003	000	2			Coconino		005	3	0000	
				007	4	Flagstaff					23620
				035	6	Sedona, part					65350
				999	9	Balance of county					99999
	004	000	2			Gila		007	4	0000	
				030	6	Payson					53700
				999	9	Balance of county					99999
	005	000	2	999	9	Graham		009	5	0000	
	006	000	2	999	9	Greenlee		011	9	0000	
	007	000	2	999	9	La Paz		012	6	0000	
	008	215	1			Maricopa		013	0	6200	
				001	5	Apache Junction, part					02830
				002	5	Avondale					04720
				005	3	Chandler					12000
				008	6	Fountain Hills					25300
				009	3	Gilbert					27400
				010	3	Glendale					27820
				027	6	Goodyear					28380
				013	2	Mesa					46000
				015	6	Paradise Valley					52930
				016	3	Peoria, part					54050
				017	0	Phoenix					55000
				019	3	Scottsdale					65000
				034	5	Surprise					71510
				021	3	Tempe					73000
				999	9	Balance of county					99999
	009	159	1			Mohave		015	3	4120	
				003	5	Bullhead City					08220
				011	6	Kingman					37620
				012	5	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	
				028	6	Marana					44270
				029	5	Oro Valley					51600
				022	2	Tucson					77000
				999	9	Balance of county					99999
	012	215	1			Pinal		021	3	6200	
				001	5	Apache Junction, part					02830
				004	5	Casa Grande					10530
				025	6	Eloy					22360
				026	6	Florence					23760
				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	
				036	3	Peoria, part					54050
				018	5	Prescott					57380
				031	6	Prescott Valley					57450
				033	6	Sedona, part					65350
				999	9	Balance of county					99999
	015	311	1			Yuma		027	3	9360	
				032	6	San Luis					63470
				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
AR						Arkansas	AR				
	001	000	2	999	9	Arkansas		001	6	0000	
	002	000	2	999	9	Ashley		003	6	0000	
	003	000	2			Baxter		005	5	0000	
				034	6	Mountain Home					47390
				999	9	Balance of county					99999
	004	092	1			Benton		007	3	2580	
				003	6	Bentonville					05320
				019	5	Rogers					60410
				035	6	Siloam Springs					64370
				023	5	Springdale, part					66080
				999	9	Balance of county					99999
	005	000	2			Boone		009	5	0000	
				031	6	Harrison					30460
				999	9	Balance of county					99999
	006	000	2	999	9	Bradley		011	6	0000	
	007	000	2	999	9	Calhoun		013	9	0000	
	008	000	2	999	9	Carroll		015	5	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	9	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	4	Jonesboro					35710
				999	9	Balance of county					99999
	017	100	1			Crawford		033	4	2720	
				026	6	Van Buren					71480
				999	9	Balance of county					99999
	018	178	1			Crittenden		035	4	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	9	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					33400
				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			Hempstead		057	6	0000	
				032	6	Hope					33190
				999	9	Balance of county					99999
	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	9	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			Lonoke		085	4	4400	
				030	6	Cabot					10300
				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
AR					Arkansas	AR				
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	5	Texarkana					68810
			999	9	Balance of county					99999
047	000	2			Mississippi	093	4	0000		
			004	6	Blytheville					07330
			999	9	Balance of county					99999
048	000	2	999	9	Monroe	095	6	0000		
049	000	2	999	9	Montgomery	097	9	0000		
050	000	2	999	9	Nevada	099	9	0000		
051	000	2	999	9	Newton	101	9	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	999	9	Phillips	107	5	0000		
055	000	2	999	9	Pike	109	6	0000		
056	000	2	999	9	Poinsett	111	5	0000		
057	000	2	999	9	Polk	113	6	0000		
058	000	2			Pope	115	4	0000		
			020	6	Russellville					61670
			999	9	Balance of county					99999
059	000	2	999	9	Prairie	117	9	0000		
060	166	1			Pulaski	119	2	4400		
			012	5	Jacksonville					34750
			014	3	Little Rock					41000
			033	6	Maumelle					44600
			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	9	0000		
066	100	1			Sebastian	131	3	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	4	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	9	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
CA							California	CA				
	001	201	1				Alameda		001	0	5775	
				002	4		Alameda					00562
				003	6		Albany					00674
				025	3		Berkeley					06000
				073	5		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	9	0000	
	003	000	2	999	9		Amador		005	5	0000	
	004	056	1				Butte		007	3	1620	
				042	4		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
				312	6		Brentwood					08142
				317	6		Clayton					13882
				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					49187
				336	5		Oakley					53070
				183	6		Orinda					54232
				200	6		Pinole					57288
				201	4		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	5	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
				318	6		Coalinga					14274
				091	2		Fresno					27000
				337	6		Parlier					55856
				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	5	0000	
	012	000	2				Humboldt		023	3	0000	
				009	6		Arcata					02476
				083	5		Eureka					23042
				319	6		Fortuna					25296
				999	9		Balance of county					99999
	013	000	2				Imperial		025	3	0000	
				027	6		Brawley					08058
				032	5		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	
				308	6		Arvin					02924
				016	3		Bakersfield					03526
				066	5		Delano					18394

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
CA							California	CA				
	015						Kern, con.	029	1		0680	
				219	6		Ridgecrest					60704
				344	6		Shafter					71106
				347	6		Tehachapi					78092
				296	6		Wasco					83542
				999	9		Balance of county					99999
	016	000	2				Kings	031	3		0000	
				309	6		Avenal					03302
				053	6		Corcoran					16224
				100	5		Hanford					31960
				134	6		Lemoore					41152
				999	9		Balance of county					99999
	017	000	2				Lake	033	4		0000	
				046	6		Clearlake					13945
				999	9		Balance of county					99999
	018	000	2				Lassen	035	5		0000	
				346	6		Susanville					77364
				999	9		Balance of county					99999
	019	168	1				Los Angeles	037	0		4480	
				001	6		Agoura Hills					00394
				004	4		Alhambra					00884
				008	4		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	3		Burbank					08954
				313	6		Calabasas					09598
				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	3		Downey					19766
				072	6		Duarte					19990
				078	3		El Monte					22230
				080	6		El Segundo					22412
				093	4		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	3		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
				333	6		Malibu					45246
				148	5		Manhattan Beach					45400
				153	5		Maywood					46492
				161	5		Monrovia					48648
				163	4		Montebello					48816
				165	4		Monterey Park					48914
				176	3		Norwalk					52526
				188	3		Palmdale					55156
				192	6		Palos Verdes Estates					55380
				194	4		Paramount					55618
				195	3		Pasadena					56000

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
CA							California	CA				
	019						Los Angeles, con.		037	0	4480	
				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
				269	4		South Gate					73080
				271	6		South Pasadena					73220
				278	5		Temple City					78148
				280	3		Torrance					80000
				294	5		Walnut					83332
				298	3		West Covina					84200
				299	5		West Hollywood					84410
				302	4		Whittier					85292
				999	9		Balance of county					99999
	020	104	1				Madera		039	3	2840	
				315	6		Chowchilla					13294
				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	4		San Rafael					68364
				999	9		Balance of county					99999
	022	000	2	999	9		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
				332	6		Livingston					42006
				144	5		Los Banos					44028
				155	4		Merced					46898
				999	9		Balance of county					99999
	025	000	2	999	9		Modoc		049	9	0000	
	026	000	2	999	9		Mono		051	6	0000	
	027	245	1				Monterey		053	2	7120	
				322	6		Greenfield					30994
				325	6		King City					38520
				150	5		Marina					45778
				164	5		Monterey					48872
				187	6		Pacific Grove					54848
				226	3		Salinas					64224
				263	5		Seaside					70742
				345	6		Soledad					72520
				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	
				321	6		Grass Valley					30798
				348	6		Truckee					80588
				999	9		Balance of county					99999
	030	207	1				Orange		059	0	5945	
				005	2		Anaheim					02000
				028	5		Brea					08100
				029	4		Buena Park					08786
				056	3		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

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
CA				California				CA				
	030			Orange, con.					059	0	5945	
				111	3		Huntington Beach					36000
				116	3		Irvine					36770
				119	6		Laguna Beach					39178
				326	5		Laguna Hills					39220
				120	4		Laguna Niguel					39248
				327	6		Laguna Woods					39259
				121	4		La Habra					39290
				328	4		Lake Forest					39496
				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
				340	5		Rancho Santa Margarita					59587
				232	5		San Clemente					65084
				241	5		San Juan Capistrano					68028
				250	2		Santa Ana					69000
				262	6		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
				330	6		Lincoln					41474
				221	5		Rocklin					62364
				224	4		Roseville					62938
				999	9		Balance of county					99999
	032	000	2	999	9		Plumas		063	6	0000	
	033	233	1	Riverside					065	0	6780	
				018	6		Banning					03820
				310	6		Beaumont					04758
				311	6		Blythe					07218
				039	5		Cathedral City					12048
				048	6		Coachella					14260
				054	3		Corona					16350
				067	6		Desert Hot Springs					18996
				104	4		Hemet					33182
				114	5		Indio					36448
				122	5		Lake Elsinore					39486
				129	6		La Quinta					40354
				168	3		Moreno Valley					49270
				335	5		Murrieta					50076
				175	6		Norco					51560
				189	5		Palm Desert					55184
				190	5		Palm Springs					55254
				196	5		Perris					56700
				339	6		Rancho Mirage					59500
				220	2		Riverside					62000
				239	6		San Jacinto					67112
				277	4		Temecula					78120
				999	9		Balance of county					99999
	034	239	1	Sacramento					067	0	6920	
				316	4		Citrus Heights					13588
				086	4		Folsom					24638
				320	6		Galt					28112
				225	2		Sacramento					64000
				999	9		Balance of county					99999
	035	000	2	San Benito					069	4	0000	
				110	5		Hollister					34120
				999	9		Balance of county					99999
	036	233	1	San Bernardino					071	0	6780	
				307	6		Adelanto					00296
				007	4		Apple Valley					02364
				019	6		Barstow					04030
				043	4		Chino					13210
				314	4		Chino Hills					13214
				049	5		Colton					14890
				087	3		Fontana					24680
				098	6		Grand Terrace					30658
				107	4		Hesperia					33434

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
CA						California	CA
	036					San Bernardino, con.	071 0 6780
				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	4	Victorville	82590
				306	5	Yucaipa	87042
				350	6	Yucca Valley	87056
				999	9	Balance of county	99999
	037	249	1			San Diego	073 0 7320
				036	4	Carlsbad	11194
				044	3	Chula Vista	13392
				055	6	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	4	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	1	San Francisco, coext. with San Francisco	075 1 7360
	039	274	1			San Joaquin	077 1 8120
				329	6	Lathrop	40704
				136	4	Lodi	42202
				149	5	Manteca	45484
				341	6	Ripon	61026
				274	3	Stockton	75000
				281	4	Tracy	80238
				999	9	Balance of county	99999
	040	252	1			San Luis Obispo	079 3 7460
				010	6	Arroyo Grande	02868
				012	5	Atascadero	03064
				079	6	El Paso de Robles	22300
				099	6	Grover Beach	31393
				334	6	Morro Bay	49362
				243	5	San Luis Obispo	68154
				999	9	Balance of county	99999
	041	250	1			San Mateo	081 1 7360
				023	5	Belmont	05108
				031	5	Burlingame	09066
				062	3	Daly City	17918
				074	5	East Palo Alto	20956
				088	5	Foster City	25338
				323	6	Half Moon Bay	31708
				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

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
CA				California				CA				
043	251	1					Santa Clara	085	0		7400	
				034	5		Campbell					10345
				060	4		Cupertino					17610
				095	5		Gilroy					29504
				142	5		Los Altos					43280
				145	5		Los Gatos					44112
				158	4		Milpitas					47766
				169	5		Morgan Hill					49278
				170	4		Mountain View					49670
				191	4		Palo Alto					55282
				240	1		San Jose					68000
				252	3		Santa Clara					69084
				261	5		Saratoga					70280
				276	3		Sunnyvale					77000
				999	9		Balance of county					99999
044	254	1					Santa Cruz	087	2		7485	
				035	6		Capitola					11040
				254	4		Santa Cruz					69112
				343	6		Scotts Valley					70588
				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		999	9		Sierra	091	9		0000	
047	000	2		999	9		Siskiyou	093	5		0000	
048	290	1					Solano	095	2		8720	
				024	5		Benicia					05290
				070	6		Dixon					19402
				084	4		Fairfield					23182
				275	5		Suisun City					75630
				289	4		Vacaville					81554
				290	3		Vallejo					81666
				999	9		Balance of county					99999
049	256	1					Sonoma	097	2		7500	
				324	6		Healdsburg					33056
				197	4		Petaluma					56784
				222	5		Rohnert Park					62546
				259	3		Santa Rosa					70098
				349	6		Windsor					85922
				999	9		Balance of county					99999
050	185	1					Stanislaus	099	2		5170	
				040	5		Ceres					12524
				160	3		Modesto					48354
				178	6		Oakdale					52694
				338	6		Patterson					56112
				342	6		Riverbank					61068
				283	4		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	4		0000	
				211	6		Red Bluff					59892
				999	9		Balance of county					99999
053	000	2		999	9		Trinity	105	6		0000	
054	294	1					Tulare	107	2		8780	
				069	6		Dinuba					19318
				331	6		Lindsay					41712
				206	5		Porterville					58240
				282	5		Tulare					80644
				292	4		Visalia					82954
				999	9		Balance of county					99999
055	000	2		999	9		Tuolumne	109	4		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	3		San Buenaventura (Ventura)					65042
				258	5		Santa Paula					70042
				266	3		Simi Valley					72016
				279	3		Thousand Oaks					78582

Vital Statistics Codes					FIPS Codes					
St	Cnty	P/MSA	M/NM	City P/S	Area Names	St	Cnty	P/S	P/MSA	Place
CA					California	CA				
	056				Ventura, con.		111	1	8735	
				999	Balance of county					99999
	057	307	1		Yolo		113	3	9270	
				065	Davis					18100
				301	West Sacramento					84816
				303	Woodland					86328
				999	Balance of county					99999
	058	310	1		Yuba		115	4	9340	
				152	Marysville					46170
				999	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
CO						Colorado	CO				
	001	074	1			Adams		001	2	2080	
				001	3	Arvada, part					03455
				002	2	Aurora, part					04000
				004	6	Brighton, part					08675
				008	6	Commerce City					16495
				039	6	Federal Heights					26270
				023	5	Northglenn, part					54330
				026	4	Thornton, part					77290
				027	3	Westminster, part					83835
				999	9	Balance of county					99999
	002	000	2	999	9	Alamosa		003	6	0000	
	003	074	1			Arapahoe		005	2	2080	
				002	2	Aurora, part					04000
				011	5	Englewood					24785
				041	6	Greenwood Village					33035
				019	5	Littleton, part					45255
				999	9	Balance of county					99999
	004	000	2	999	9	Archuleta		007	9	0000	
	005	000	2	999	9	Baca		009	9	0000	
	006	000	2	999	9	Bent		011	9	0000	
	007	038	1			Boulder		013	2	1125	
				003	4	Boulder					07850
				017	6	Lafayette					41835
				020	4	Longmont, part					45970
				021	6	Louisville					46355
				999	9	Balance of county					99999
	008	000	2	999	9	Chaffee		015	6	0000	
	009	000	2	999	9	Cheyenne		017	9	0000	
	010	000	2	999	9	Clear Creek		019	9	0000	
	011	000	2	999	9	Conejos		021	9	0000	
	012	000	2	999	9	Costilla		023	9	0000	
	013	000	2	999	9	Crowley		025	9	0000	
	014	000	2	999	9	Custer		027	9	0000	
	015	000	2	999	9	Delta		029	5	0000	
	016	074	1	009	1	Denver, coext. with Denver city		031	1	2080	20000
	017	000	2	999	9	Dolores		033	9	0000	
	018	074	1			Douglas		035	3	2080	
				002	2	Aurora, part					04000
				038	6	Castle Rock					12415
				019	5	Littleton, part					45255
				043	6	Parker					57630
				999	9	Balance of county					99999
	019	000	2	999	9	Eagle		037	5	0000	
	020	000	2	999	9	Elbert		039	6	0000	
	021	060	1			El Paso		041	1	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	999	9	Garfield		045	5	0000	
	024	000	2	999	9	Gilpin		047	9	0000	
	025	000	2	999	9	Grand		049	6	0000	
	026	000	2	999	9	Gunnison		051	6	0000	
	027	000	2	999	9	Hinsdale		053	9	0000	
	028	000	2	999	9	Huerfano		055	9	0000	
	029	000	2	999	9	Jackson		057	9	0000	
	030	074	1			Jefferson		059	1	2080	
				001	3	Arvada, part					03455
				014	6	Golden					30835
				018	3	Lakewood					43000
				044	5	Littleton, part					45255
				027	3	Westminster, part					83835
				028	5	Wheat Ridge					84440
				999	9	Balance of county					99999
	031	000	2	999	9	Kiowa		061	9	0000	
	032	000	2	999	9	Kit Carson		063	9	0000	
	033	000	2	999	9	Lake		065	9	0000	
	034	000	2			La Plata		067	5	0000	
				010	6	Durango					22035
				999	9	Balance of county					99999
	035	096	1			Larimer		069	2	2670	
				012	3	Fort Collins					27425

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
CO						Colorado	CO				
	035					Larimer, con.		069	2	2670	
				022	4	Loveland					46465
				999	9	Balance of county					99999
	036	000	2	999	9	Las Animas		071	6	0000	
	037	000	2	999	9	Lincoln		073	9	0000	
	038	000	2			Logan		075	6	0000	
				025	6	Sterling					73935
				999	9	Balance of county					99999
	039	000	2			Mesa		077	3	0000	
				015	5	Grand Junction					31660
				999	9	Balance of county					99999
	040	000	2	999	9	Mineral		079	9	0000	
	041	000	2	999	9	Moffat		081	6	0000	
	042	000	2	999	9	Montezuma		083	6	0000	
	043	000	2			Montrose		085	5	0000	
				042	6	Montrose					51745
				999	9	Balance of county					99999
	044	000	2			Morgan		087	5	0000	
				040	6	Fort Morgan					27810
				999	9	Balance of county					99999
	045	000	2	999	9	Otero		089	6	0000	
	046	000	2	999	9	Ouray		091	9	0000	
	047	000	2	999	9	Park		093	6	0000	
	048	000	2	999	9	Phillips		095	9	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	3	Pueblo					62000
				999	9	Balance of county					99999
	052	000	2	999	9	Rio Blanco		103	9	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	9	0000	
	056	000	2	999	9	San Juan		111	9	0000	
	057	000	2	999	9	San Miguel		113	9	0000	
	058	000	2	999	9	Sedgwick		115	9	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	9	0000	
	062	114	1			Weld		123	3	3060	
				004	6	Brighton, part					08675
				016	4	Greeley					32155
				045	4	Longmont, part					45970
				046	5	Northglenn, part					54330
				047	4	Thornton, part					77290
				999	9	Balance of county					99999
	063	000	2	999	9	Yuma		125	9	0000	
	064	038	1	005	5	Broomfield, coext. with Broomfield city		014	5	1125	09280

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
CT	001	194	1			Connecticut	
						Fairfield	
				002	6	Bethel town	04720
				004	3	Bridgeport	08000
				007	4	Danbury	18430
				008	6	Darien town	18850
				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	74190
				038	5	Trumbull town	77200
				044	5	Westport town	83500
				999	9	Balance of county	99999
	002	122	1			Hartford	
				005	4	Bristol	08420
				011	5	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	52140
				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
				047	5	Windsor town	87000
				046	6	Windsor Locks town	87070
				999	9	Balance of county	99999
	003	000	2			Litchfield	
				050	5	New Milford town	52630
				037	5	Torrington	76500
				999	9	Balance of county	99999
	004	122	1			Middlesex	
				048	6	Cromwell town	18080
				021	5	Middletown	47290
				999	9	Balance of county	99999
	005	194	1			New Haven	
				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	22910
				017	4	Hamden town	35650
				020	4	Meriden	46450
				022	4	Milford	47515
				023	5	Naugatuck borough	49880
				025	3	New Haven	52000
				028	6	North Haven town	54870
				051	6	Seymour town	67610
				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	
				049	6	Groton	34180
				027	5	New London	52280
				030	5	Norwich	56200
				999	9	Balance of county	99999
	007	122	1			Tolland	
				039	5	Vernon town	78250
				999	9	Balance of county	99999
	008	000	2			Windham	
				999	9		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
DE						Delaware	DE				
	001	078	1			Kent		001	3	2190	
				001	5	Dover					21200
				999	9	Balance of county					99999
	002	304	1			New Castle		003	1	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
DC	001	296	1	001	1	District of Columbia	DC	001	1	8840	

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
FL						Florida	
	001	106	1			Alachua	FL 001 3 2900
				032	4	Gainesville	25175
				999	9	Balance of county	99999
	002	000	2	999	9	Baker	FL 003 6 0000
	003	210	1			Bay	FL 005 3 6015
				009	6	Callaway	09725
				131	6	Lynn Haven	41825
				080	5	Panama City	54700
				999	9	Balance of county	99999
	004	000	2	999	9	Bradford	FL 007 5 0000
	005	177	1			Brevard	FL 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	FL 011 0 2680
				015	5	Coconut Creek	13275
				016	5	Cooper City	14125
				018	3	Coral Springs	14400
				019	6	Dania Beach	16335
				020	4	Davie	16475
				022	4	Deerfield Beach	16725
				028	3	Fort Lauderdale	24000
				036	5	Hallandale Beach	28452
				039	3	Hollywood	32000
				049	5	Lauderdale Lakes	39525
				050	4	Lauderhill	39550
				052	6	Lighthouse Point	40450
				054	4	Margate	43125
				060	4	Miramar	45975
				065	5	North Lauderdale	49425
				070	5	Oakland Park	50575
				140	6	Parkland	55125
				081	3	Pembroke Pines	55775
				084	4	Plantation	57425
				086	4	Pompano Beach	58050
				103	4	Sunrise	69700
				106	4	Tamarac	70675
				145	5	Weston	76582
				114	6	Wilton Manors	78000
				999	9	Balance of county	99999
	007	000	2	999	9	Calhoun	FL 013 6 0000
	008	224	1			Charlotte	FL 015 3 6580
				089	6	Punta Gorda	59200
				999	9	Balance of county	99999
	009	000	2	999	9	Citrus	FL 017 3 0000
	010	135	1	999	9	Clay	FL 019 3 3600
	011	191	1			Collier	FL 021 2 5345
				134	6	Marco	43075
				061	6	Naples	47625
				999	9	Balance of county	99999
	012	000	2	999	9	Columbia	FL 023 4 0000
	013	180	1			Miami-Dade	FL 086 0 5000
				119	5	Aventura	02681
				017	5	Coral Gables	14250
				037	3	Hialeah	30000
				126	6	Hialeah Gardens	30025
				040	5	Homestead	32275
				127	6	Key Biscayne	36300
				056	2	Miami	45000
				057	4	Miami Beach	45025
				058	6	Miami Shores	45175
				059	6	Miami Springs	45200
				066	4	North Miami	49450
				067	5	North Miami Beach	49475
				073	6	Opa-locka	51650
				141	6	Pinecrest	56625
				101	6	South Miami	67550
				143	6	Sunny Isles Beach	69555
				104	6	Sweetwater	70345
				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
FL						Florida	FL				
	014	000	2	999	9	DeSoto		027	5	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
				999	9	Balance of county					99999
	018	071	1			Flagler		035	5	2020	
				137	5	Palm Coast					54200
				999	9	Balance of county					99999
	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	5	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	5	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	3	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	9	0000	
	035	208	1			Lake		069	3	5960	
				027	6	Eustis					21350
				128	6	Lady Lake					37375
				051	6	Leesburg					39875
				999	9	Balance of county					99999
	036	098	1			Lee		071	2	2700	
				120	5	Bonita Springs					07525
				010	3	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	9	0000	
	040	000	2	999	9	Madison		079	6	0000	
	041	257	1			Manatee		081	2	7510	
				008	5	Bradenton					07950
				138	6	Palmetto					54250
				999	9	Balance of county					99999
	042	202	1			Marion		083	2	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	5	Key West					36550
				133	6	Marathon					43000
				999	9	Balance of county					99999
	045	135	1			Nassau		089	4	3600	
				125	6	Fernandina Beach					22175
				999	9	Balance of county					99999
	046	101	1			Okaloosa		091	3	2750	
				121	6	Crestview					15475
				124	6	Destin					17325
				031	6	Fort Walton Beach					24475
				064	6	Niceville					48750

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
FL						Florida	FL				
	046					Okaloosa, con.		091	3	2750	
				999	9	Balance of county					99999
	047	000	2	999	9	Okeechobee		093	5	0000	
	048	208	1			Orange		095	1	5960	
				002	5	Apopka					01700
				132	6	Maitland					42575
				072	6	Ocoee					51075
				074	3	Orlando					53000
				146	6	Winter Garden					78250
				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	0	8960	
				005	6	Belle Glade					05200
				006	4	Boca Raton					07300
				007	4	Boynton Beach					07875
				024	4	Delray Beach					17100
				033	5	Greenacres					27322
				043	5	Jupiter					35875
				047	5	Lake Worth					39075
				068	6	North Palm Beach					49600
				136	6	Palm Beach					54025
				079	5	Palm Beach Gardens					54075
				139	6	Palm Springs					54450
				090	5	Riviera Beach					60975
				092	6	Royal Palm Beach					62100
				144	5	Wellington					75812
				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
				147	6	Zephyrhills					79225
				999	9	Balance of county					99999
	052	279	1			Pinellas		103	1	8280	
				012	3	Clearwater					12875
				025	5	Dunedin					18575
				034	6	Gulfport					28175
				048	4	Largo					39425
				135	6	Oldsmar					51350
				083	5	Pinellas Park					56975
				093	6	Safety Harbor					62425
				096	3	St. Petersburg					63000
				142	6	Seminole					64975
				108	6	Tarpon Springs					71150
				999	9	Balance of county					99999
	053	154	1			Polk		105	2	3980	
				118	6	Auburndale					02550
				004	6	Bartow					03675
				035	6	Haines City					28400
				046	4	Lakeland					38250
				130	6	Lake Wales					38950
				115	5	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	3	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					58715
				999	9	Balance of county					99999
	057	212	1	999	9	Santa Rosa		113	3	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



Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
FL							Florida	FL				
	059						Seminole, con.		117	2	5960	
				011	6		Casselberry					11050
				129	6		Lake Mary					38425
				053	6		Longwood					41250
				076	5		Oviedo					53575
				097	5		Sanford					63650
				117	5		Winter Springs					78325
				999	9		Balance of county					99999
	060	000	2	999	9		Sumter		119	4	0000	
	061	000	2	999	9		Suwannee		121	5	0000	
	062	000	2	999	9		Taylor		123	6	0000	
	063	000	2	999	9		Union		125	6	0000	
	064	071	1				Volusia		127	2	2020	
				021	4		Daytona Beach					16525
				122	6		De Bary					16675
				023	6		De Land					16875
				123	4		Deltona					17200
				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	999	9		Wakulla		129	6	0000	
	066	000	2	999	9		Walton		131	5	0000	
	067	000	2	999	9		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
GA						Georgia	GA				
	001	000	2	999	9	Appling		001	6	0000	
	002	000	2	999	9	Atkinson		003	9	0000	
	003	000	2	999	9	Bacon		005	6	0000	
	004	000	2	999	9	Baker		007	9	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			Barrow		013	5	0520	
				066	6	Winder					83420
				999	9	Balance of county					99999
	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	4	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	4	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	9	0000	
	020	000	2			Camden		039	5	0000	
				058	6	Kingsland					43640
				063	6	St. Marys					67984
				999	9	Balance of county					99999
	021	000	2	999	9	Candler		043	9	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	4	1560	
	024	000	2	999	9	Charlton		049	6	0000	
	025	258	1			Chatham		051	3	7520	
				056	6	Garden City					32048
				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	5	0000	
	028	016	1			Cherokee		057	3	0520	
				067	6	Woodstock					84176
				999	9	Balance of county					99999
	029	015	1			Clarke		059	3	0500	
				004	3	Athens					03440
				999	9	Balance of county					99999
	030	000	2	999	9	Clay		061	9	0000	
	031	016	1			Clayton		063	3	0520	
				011	6	College Park, part					17776
				021	6	Forest Park					30536
				062	6	Riverdale					65464
				999	9	Balance of county					99999
	032	000	2	999	9	Clinch		065	9	0000	
	033	016	1			Cobb		067	1	0520	
				050	6	Acworth					00408
				057	6	Kennesaw					43192
				028	4	Marietta					49756
				061	6	Powder Springs					62524
				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

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
GA						Georgia	GA				
	038					Coweta, con.		077	4	0520	
				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			DeKalb		089	1	0520	
				005	2	Atlanta, part					04000
				016	6	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	9	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	
				055	6	Fayetteville					28968
				032	5	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	4	0520	
	059	000	2	999	9	Franklin		119	6	0000	
	060	016	1			Fulton		121	1	0520	
				002	5	Alpharetta					01696
				005	2	Atlanta, part					04000
				011	6	College Park, part					17776
				020	5	East Point					25720
				034	4	Roswell					67284
				065	6	Union City					78324
				999	9	Balance of county					99999
	061	000	2	999	9	Gilmer		123	6	0000	
	062	000	2	999	9	Glascok		125	9	0000	
	063	000	2			Glynn		127	4	0000	
				008	6	Brunswick					11560
				999	9	Balance of county					99999
	064	000	2			Gordon		129	5	0000	
				052	6	Calhoun					12456
				999	9	Balance of county					99999
	065	000	2	999	9	Grady		131	6	0000	
	066	000	2	999	9	Greene		133	6	0000	
	067	016	1			Gwinnett		135	1	0520	
				051	6	Buford, part					11784
				054	6	Duluth					24600
				026	6	Lawrenceville					45488
				059	6	Lilburn					46356
				037	6	Snellville					71604
				064	6	Sugar Hill					74180
				999	9	Balance of county					99999
	068	000	2	999	9	Habersham		137	5	0000	
	069	000	2			Hall		139	3	0000	
				068	6	Buford, part					11784
				022	5	Gainesville					31908
				999	9	Balance of county					99999
	070	000	2	999	9	Hancock		141	6	0000	
	071	000	2	999	9	Haralson		143	5	0000	
	072	063	1	999	9	Harris		145	6	1800	
	073	000	2	999	9	Hart		147	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
GA							Georgia	GA				
	074	000	2	999	9		Heard		149	6	0000	
	075	016	1	999	9		Henry		151	3	0520	
	076	172	1				Houston		153	3	4680	
				043	5		Warner Robins, part					80508
				999	9		Balance of county					99999
	077	000	2	999	9		Irwin		155	9	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	9	0000	
	083	000	2	999	9		Johnson		167	9	0000	
	084	172	1				Jones		169	6	4680	
				027	4		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	9	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	
	089	000	2				Liberty		179	4	0000	
				024	5		Hinesville					38964
				999	9		Balance of county					99999
	090	000	2	999	9		Lincoln		181	9	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	5	0500	
	098	000	2	999	9		Marion		197	9	0000	
	099	000	2	999	9		Meriwether		199	6	0000	
	100	000	2	999	9		Miller		201	9	0000	
	101	000	2	999	9		Mitchell		205	6	0000	
	102	000	2	999	9		Monroe		207	6	0000	
	103	000	2				Montgomery		209	9	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					19007
				999	9		Balance of county					99999
	107	016	1				Newton		217	4	0520	
				014	6		Covington					20064
				999	9		Balance of county					99999
	108	015	1	999	9		Oconee		219	5	0500	
	109	000	2	999	9		Oglethorpe		221	6	0000	
	110	016	1	999	9		Paulding		223	4	0520	
	111	172	1				Peach		225	6	4680	
				069	5		Warner Robins, part					80508
				999	9		Balance of county					99999
	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	9	0000	
	117	000	2	999	9		Putnam		237	6	0000	
	118	000	2	999	9		Quitman		239	9	0000	
	119	000	2	999	9		Rabun		241	6	0000	
	120	000	2	999	9		Randolph		243	9	0000	
	121	018	1				Richmond		245	3	0600	
				006	3		Augusta					04204
				999	9		Balance of county					99999
	122	016	1				Rockdale		247	4	0520	
				053	6		Conyers					19336
				999	9		Balance of county					99999
	123	000	2	999	9		Schley		249	9	0000	

Vital Statistics Codes					FIPS Codes					
St	Cnty	P/MSA	M/NM	City P/S	Area Names	St	Cnty	P/S	P/MSA	Place
GA					Georgia	GA				
124	000	2	999	9	Screven	251	6	0000		
125	000	2	999	9	Seminole	253	9	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	5	0000		
128	000	2	999	9	Stewart	259	9	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	9	0000		
131	000	2	999	9	Taliaferro	265	9	0000		
132	000	2	999	9	Tattnall	267	6	0000		
133	000	2	999	9	Taylor	269	9	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	5	0000		
			042	6	Vidalia, part					79388
			999	9	Balance of county					99999
139	000	2	999	9	Towns	281	9	0000		
140	000	2	999	9	Treutlen	283	9	0000		
141	000	2			Troup	285	4	0000		
			025	5	LaGrange					44340
			999	9	Balance of county					99999
142	000	2	999	9	Turner	287	9	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			Walton	297	4	0520		
			060	6	Monroe					52192
			999	9	Balance of county					99999
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	9	0000		
150	000	2	999	9	Washington	303	6	0000		
151	000	2	999	9	Wayne	305	5	0000		
152	000	2	999	9	Webster	307	9	0000		
153	000	2	999	9	Wheeler	309	9	0000		
154	000	2	999	9	White	311	6	0000		
155	000	2			Whitfield	313	4	0000		
			015	5	Dalton					21380
			999	9	Balance of county					99999
156	000	2	999	9	Wilcox	315	9	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
HI						Hawaii	HI				
	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
				013	6	Halawa					10000
				003	2	Honolulu					17000
				005	5	Kailua					23150
				006	5	Kaneohe					28250
				014	6	Kaneohe Station					28400
				016	6	Makakilo City					47750
				007	5	Mililani Town					51050
				017	6	Nanakuli					53900
				008	5	Pearl City					62600
				009	6	Schofield Barracks					69050
				010	6	Wahiawa					72650
				018	6	Waianae					74450
				019	5	Waimalu					77750
				012	5	Waipahu					79700
				020	6	Waipio					79860
				999	9	Balance of county					99999
	003	000	2	999	9	Kalawao		005	9	0000	
	004	000	2	999	9	Kauai		007	4	0000	
	005	000	2			Maui		009	3	0000	
				004	6	Kahului					22700
				015	6	Kihei					36500
				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
ID				Idaho				ID				
	001	036	1				Ada	001	2		1080	
				001	3		Boise City					08830
				013	6		Eagle					23410
				014	6		Garden City					29620
				015	5		Meridian					52120
				999	9		Balance of county					99999
	002	000	2	999	9		Adams	003	9		0000	
	003	000	2				Bannock	005	4		0000	
				008	4		Pocatello, part					64090
				999	9		Balance of county					99999
	004	000	2	999	9		Bear Lake	007	9		0000	
	005	000	2	999	9		Benewah	009	9		0000	
	006	000	2				Bingham	011	5		0000	
				012	6		Blackfoot					07840
				999	9		Balance of county					99999
	007	000	2	999	9		Blaine	013	6		0000	
	008	000	2	999	9		Boise	015	9		0000	
	009	000	2	999	9		Bonner	017	5		0000	
	010	000	2				Bonneville	019	4		0000	
				004	4		Idaho Falls					39700
				999	9		Balance of county					99999
	011	000	2	999	9		Boundary	021	9		0000	
	012	000	2	999	9		Butte	023	9		0000	
	013	000	2	999	9		Camas	025	9		0000	
	014	036	1				Canyon	027	3		1080	
				002	5		Caldwell					12250
				007	4		Nampa					56260
				999	9		Balance of county					99999
	015	000	2	999	9		Caribou	029	9		0000	
	016	000	2	999	9		Cassia	031	6		0000	
	017	000	2	999	9		Clark	033	9		0000	
	018	000	2	999	9		Clearwater	035	9		0000	
	019	000	2	999	9		Custer	037	9		0000	
	020	000	2				Elmore	039	5		0000	
				016	6		Mountain Home					54730
				999	9		Balance of county					99999
	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	3		0000	
				003	5		Coeur d'Alene					16750
				017	6		Post Falls					64810
				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	9		0000	
	031	000	2	999	9		Lewis	061	9		0000	
	032	000	2	999	9		Lincoln	063	9		0000	
	033	000	2				Madison	065	5		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	9		0000	
	037	000	2	999	9		Owyhee	073	6		0000	
	038	000	2	999	9		Payette	075	6		0000	
	039	000	2				Power	077	9		0000	
				008	4		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	9		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	9		0000	
	044	000	2	999	9		Washington	087	9		0000	

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
IL						Illinois	IL				
	001	000	2			Adams		001	4	0000	
				138	5	Quincy					62367
				999	9	Balance of county					99999
	002	000	2	999	9	Alexander		003	9	0000	
	003	000	2	999	9	Bond		005	6	0000	
	004	237	1			Boone		007	5	6880	
				011	6	Belvidere					05092
				245	6	Loves Park, part					45031
				999	9	Balance of county					99999
	005	000	2	999	9	Brown		009	9	0000	
	006	000	2	999	9	Bureau		011	5	0000	
	007	000	2	999	9	Calhoun		013	9	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, part					02154
				206	6	Barrington village, part					03844
				007	5	Bartlett village, part					04013
				010	6	Bellwood village					04975
				012	6	Bensenville village, part					05248
				013	4	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
				231	6	Burr Ridge village, part					09980
				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	5	Dolton village					20292
				057	4	Elgin, part					23074
				058	5	Elk Grove Village village, part					23256
				240	5	Elmhurst, part					23620
				060	5	Elmwood Park village					23724
				061	4	Evanston					24582
				062	6	Evergreen Park village					24634
				064	6	Forest Park village					26935
				241	6	Frankfort village, part					27624
				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
				089	6	La Grange village					40767



Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
IL				Illinois				IL				
	016			Cook, con.					031	0	1600	
				088	6		La Grange Park village					40793
				092	5		Lansing village					42028
				214	6		Lemont village, part					42795
				095	6		Lincolnwood village					43744
				217	6		Lyons village					45434
				103	6		Markham					47007
				104	6		Matteson village, part					47540
				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	4		Orland Park village, part					56640
				129	4		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
				224	6		River Grove village					64343
				145	6		Rolling Meadows					65338
				147	6		Roselle village, part					65806
				225	6		Sauk Village village, part					67769
				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
				227	6		Summit village					73638
				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
				248	5		Woodridge village, part					83245
				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				DeKalb		037	4	1600	
				047	5		DeKalb					19161
				229	6		Sycamore					74223
				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				DuPage		043	1	1600	
				001	5		Addison village					00243
				006	3		Aurora, part					03012
				007	5		Bartlett village, part					04013
				008	6		Batavia, part					04078
				012	6		Bensenville village, part					05248
				014	6		Bloomington village					06587
				017	4		Bolingbrook village, part					07133
				208	6		Burr Ridge village, part					09980
				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, part					23620
				069	5		Glendale Heights village					29730
				070	5		Glen Ellyn village					29756

Vital Statistics Codes				FIPS Codes				
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St Cnty P/S P/MSA Place	
IL				Illinois			IL	
	022					DuPage, con.	043 1 1600	
				074	5	Hanover Park village, part	32746	
				080	6	Hinsdale village, part	35307	
				232	6	Lemont village, part	42795	
				096	6	Lisle village	43939	
				097	5	Lombard village	44407	
				116	3	Naperville, part	51622	
				147	6	Roselle village, part	65806	
				149	5	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	
				174	6	Wood Dale	82985	
				175	5	Woodridge village, part	83245	
				999	9	Balance of county	99999	
	023	000	2	999	9	Edgar	045 6 0000	
	024	000	2	999	9	Edwards	047 9 0000	
	025	000	2			Effingham	049 5 0000	
				056	6	Effingham	22736	
				999	9	Balance of county	99999	
	026	000	2	999	9	Fayette	051 6 0000	
	027	000	2	999	9	Ford	053 6 0000	
	028	000	2	999	9	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	9	Gallatin	059 9 0000	
	031	000	2	999	9	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	9	Hamilton	065 9 0000	
	034	000	2	999	9	Hancock	067 6 0000	
	035	000	2	999	9	Hardin	069 9 0000	
	036	000	2	999	9	Henderson	071 9 0000	
	037	069	1			Henry	073 4 1960	
				087	6	Kewanee	39727	
				999	9	Balance of county	99999	
	038	000	2	999	9	Iroquois	075 5 0000	
	039	000	2			Jackson	077 4 0000	
				027	6	Carbondale	11163	
				219	6	Murphysboro	51453	
				999	9	Balance of county	99999	
	040	000	2	999	9	Jasper	079 6 0000	
	041	000	2			Jefferson	081 5 0000	
				238	6	Centralia, part	12164	
				114	6	Mount Vernon	51180	
				999	9	Balance of county	99999	
	042	243	1	999	9	Jersey	083 6 7040	
	043	000	2	999	9	Jo Daviess	085 6 0000	
	044	000	2	999	9	Johnson	087 6 0000	
	045	055	1			Kane	089 2 1600	
				002	6	Algonquin village, part	00685	
				006	3	Aurora, part	03012	
				007	5	Bartlett village, part	04013	
				008	6	Batavia, part	04078	
				029	5	Carpentersville village	11358	
				057	4	Elgin, part	23074	
				068	6	Geneva	28872	
				243	5	Hoffman Estates village, part	35411	
				221	6	North Aurora village	53442	
				149	5	St. Charles, part	66703	
				226	6	South Elgin village	70720	
				999	9	Balance of county	99999	
	046	144	1			Kankakee	091 3 3740	
				018	6	Bourbonnais village	07471	
				019	6	Bradley village	07744	
				086	5	Kankakee	38934	
				999	9	Balance of county	99999	
	047	055	1			Kendall	093 4 1600	
				236	3	Aurora, part	03012	

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
IL				Illinois			IL
	047					Kendall, con.	093 4 1600
			244	3		Joliet, part	38570
			222	6		Oswego village	56887
			999	9		Balance of county	99999
	048	000	2			Knox	095 4 0000
			067	5		Galesburg	28326
			999	9		Balance of county	99999
	049	055	1			Lake	097 1 1600
			235	4		Arlington Heights village, part	02154
			230	6		Barrington village, part	03844
			207	6		Beach Park village	04303
			022	5		Buffalo Grove village, part	09447
			046	6		Deerfield village, part	18992
			212	6		Grayslake village	31121
			073	5		Gurnee village	32018
			079	5		Highland Park	34722
			090	6		Lake Forest	41105
			091	6		Lake Zurich village	41742
			093	6		Libertyville village	43250
			215	6		Lindenhurst village	43770
			115	5		Mundelein village	51349
			121	5		North Chicago	53559
			148	5		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
			157	6		Streator, part	73170
			999	9		Balance of county	99999
	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 2 1600
			002	6		Algonquin village, part	00685
			030	6		Cary village	11592
			042	5		Crystal Lake	17887
			213	6		Lake in the Hills village	41183
			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 2 7040
			004	5		Alton	01114
			038	6		Collinsville, part	15599
			055	6		Edwardsville	22697
			210	6		Glen Carbon village	29639
			211	6		Godfrey	30094
			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

Vital Statistics Codes					FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
IL							Illinois	IL				
	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	5		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	4		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	9		0000	
	077	000	2	999	9		Pulaski	153	9		0000	
	078	000	2	999	9		Putnam	155	9		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
				038	6		Collinsville, part					15599
				054	5		East St. Louis					22255
				063	6		Fairview Heights					25141
				126	6		O'Fallon					55249
				228	6		Swansea village					74119
				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	9		0000	
	086	000	2	999	9		Scott	171	9		0000	
	087	000	2	999	9		Shelby	173	6		0000	
	088	000	2	999	9		Stark	175	9		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				Washington	189	6		0000	
				239	6		Centralia, part					12164
				999	9		Balance of county					99999
	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	1		1600	
				237	3		Aurora, part					03012
				017	4		Bolingbrook village, part					07133
				040	6		Crest Hill					17458
				209	6		Frankfort village, part					27624

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
IL						Illinois	
	099					Will, con.	IL 197 1 1600
		084	3			Joliet, part	38570
		233	6			Lemont village, part	42795
		216	6			Lockport	44225
		246	6			Matteson village, part	47540
		218	6			Mokena village	49854
		116	3			Naperville, part	51622
		220	6			New Lenox village	52584
		247	4			Orland Park village, part	56640
		132	6			Park Forest village, part	57732
		223	6			Plainfield village	60287
		146	6			Romeoville village	65442
		234	6			Sauk Village village, part	67769
		159	5			Tinley Park village, part	75484
		175	5			Woodridge village, part	83245
		999	9			Balance of county	99999
	100	000	2			Williamson	IL 199 4 0000
		077	6			Herrin	34358
		102	6			Marion	46916
		999	9			Balance of county	99999
	101	237	1			Winnebago	IL 201 2 6880
		098	6			Loves Park, part	45031
		100	6			Machesney Park village	45726
		143	3			Rockford	65000
		999	9			Balance of county	99999
	102	213	1			Woodford	IL 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
IN						Indiana	IN				
	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	9	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	5	Jeffersonville					38358
				999	9	Balance of county					99999
	011	280	1	999	9	Clay		021	5	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			Decatur		031	6	0000	
				069	6	Greensburg					29718
				999	9	Balance of county					99999
	017	102	1			DeKalb		033	5	2760	
				065	6	Auburn					02674
				999	9	Balance of county					99999
	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	4	Elkhart					20728
				019	5	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
				068	5	Fishers					23278
				048	5	Noblesville					54180
				999	9	Balance of county					99999
	030	130	1			Hancock		059	4	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	3	3480	
				066	6	Brownsburg					08416
				050	6	Plainfield					60246
				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
IN						Indiana	IN				
	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
	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	999	9	Jasper		073	5	0000	
	038	000	2	999	9	Jay		075	6	0000	
	039	000	2			Jefferson		077	5	0000	
				037	6	Madison					45990
				999	9	Balance of county					99999
	040	000	2	999	9	Jennings		079	5	0000	
	041	130	1			Johnson		081	3	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	999	9	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	5	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			LaPorte		091	3	0000	
				033	6	LaPorte					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					36003
				034	5	Lawrence					42426
				057	6	Speedway					71828
				999	9	Balance of county					99999
	050	000	2	999	9	Marshall		099	5	0000	
	051	000	2	999	9	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	999	9	Newton		111	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
IN						Indiana	IN				
	057	000	2	999	9	Noble		113	5	0000	
	058	057	1	999	9	Ohio		115	9	1640	
	059	000	2	999	9	Orange		117	6	0000	
	060	000	2	999	9	Owen		119	6	0000	
	061	000	2	999	9	Parke		121	6	0000	
	062	000	2	999	9	Perry		123	6	0000	
	063	000	2	999	9	Pike		125	6	0000	
	064	108	1			Porter		127	3	2960	
				067	6	Chesterton					12412
				051	5	Portage					61092
				059	5	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	5	0000	
	070	000	2	999	9	Rush		139	6	0000	
	071	267	1			St. Joseph		141	2	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	9	0000	
	079	152	1			Tippecanoe		157	3	3920	
				031	4	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	9	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	9	0000	
	087	089	1	999	9	Warrick		173	4	2440	
	088	000	2	999	9	Washington		175	5	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	5	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
IA						Iowa	IA				
	001	000	2	999	9	Adair		001	9	0000	
	002	000	2	999	9	Adams		003	9	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	9	0000	
	006	000	2	999	9	Benton		011	5	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			Buena Vista		021	6	0000	
				035	6	Storm Lake					75630
				999	9	Balance of county					99999
	012	000	2	999	9	Butler		023	6	0000	
	013	000	2	999	9	Calhoun		025	6	0000	
	014	000	2			Carroll		027	6	0000	
				033	6	Carroll					11080
				999	9	Balance of county					99999
	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	9	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	
				036	6	Clive, part					14520
				038	5	Urbandale, part					79950
				030	5	West Des Moines, part					83910
				999	9	Balance of county					99999
	026	000	2	999	9	Davis		051	9	0000	
	027	000	2	999	9	Decatur		053	9	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	9	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	9	0000	
	046	000	2	999	9	Humboldt		091	6	0000	
	047	000	2	999	9	Ida		093	9	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

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
IA						Iowa	IA				
	050					Jasper, con.		099	5	0000	
				999	9	Balance of county					99999
	051	000	2	999	9	Jefferson		101	6	0000	
	052	131	1			Johnson		103	3	3500	
				009	6	Coralville					16230
				017	4	Iowa City					38595
				999	9	Balance of county					99999
	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	5	Marion					49485
				999	9	Balance of county					99999
	058	000	2	999	9	Louisa		115	6	0000	
	059	000	2	999	9	Lucas		117	9	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	9	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	9	0000	
	073	000	2	999	9	Page		145	6	0000	
	074	000	2	999	9	Palo Alto		147	6	0000	
	075	000	2			Plymouth		149	6	0000	
				037	4	Sioux City, part					73335
				999	9	Balance of county					99999
	076	000	2	999	9	Pocahontas		151	9	0000	
	077	075	1			Polk		153	2	2120	
				032	6	Altoona					01630
				002	5	Ankeny					02305
				034	6	Clive, part					14520
				012	3	Des Moines					21000
				028	5	Urbandale, part					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	9	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	4	Ames					01855
				999	9	Balance of county					99999
	086	000	2	999	9	Tama		171	6	0000	
	087	000	2	999	9	Taylor		173	9	0000	
	088	000	2	999	9	Union		175	6	0000	
	089	000	2	999	9	Van Buren		177	9	0000	
	090	000	2			Wapello		179	5	0000	
				025	6	Ottumwa					60465

Vital Statistics Codes					FIPS Codes					
St	Cnty	P/MSA	M/NM	City P/S	Area Names	St	Cnty	P/S	P/MSA	Place
IA					Iowa	IA				
	090				Wapello, con.		179	5	0000	
				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	9	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	
	097	265	1		Woodbury		193	3	7720	
				026 4	Sioux City, part					73335
				999 9	Balance of county					99999
	098	000	2	999 9	Worth		195	9	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
KS						Kansas	KS				
	001	000	2	999	9	Allen		001	6	0000	
	002	000	2	999	9	Anderson		003	9	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	9	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	9	0000	
	010	000	2	999	9	Chautauqua		019	9	0000	
	011	000	2	999	9	Cherokee		021	6	0000	
	012	000	2	999	9	Cheyenne		023	9	0000	
	013	000	2	999	9	Clark		025	9	0000	
	014	000	2	999	9	Clay		027	9	0000	
	015	000	2	999	9	Cloud		029	6	0000	
	016	000	2	999	9	Coffey		031	9	0000	
	017	000	2	999	9	Comanche		033	9	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	9	0000	
	021	000	2	999	9	Dickinson		041	6	0000	
	022	000	2	999	9	Doniphan		043	9	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	9	0000	
	025	000	2	999	9	Elk		049	9	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	9	0000	
	028	000	2			Finney		055	5	0000	
				008	5	Garden City					25325
				999	9	Balance of county					99999
	029	000	2			Ford		057	5	0000	
				005	5	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	9	0000	
	033	000	2	999	9	Graham		065	9	0000	
	034	000	2	999	9	Grant		067	9	0000	
	035	000	2	999	9	Gray		069	9	0000	
	036	000	2	999	9	Greeley		071	9	0000	
	037	000	2	999	9	Greenwood		073	9	0000	
	038	000	2	999	9	Hamilton		075	9	0000	
	039	000	2	999	9	Harper		077	9	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	9	0000	
	042	000	2	999	9	Hodgeman		083	9	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	9	0000	
	046	145	1			Johnson		091	2	3760	
				017	5	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
KS						Kansas	KS
	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 9 0000
	048	000	2	999	9	Kingman	095 9 0000
	049	000	2	999	9	Kiowa	097 9 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 9 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 9 0000
	054	000	2	999	9	Linn	107 9 0000
	055	000	2	999	9	Logan	109 9 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 9 0000
	061	145	1	999	9	Miami	121 5 3760
	062	000	2	999	9	Mitchell	123 9 0000
	063	000	2			Montgomery	125 5 0000
				003	6	Coffeyville	14600
				999	9	Balance of county	99999
	064	000	2	999	9	Morris	127 9 0000
	065	000	2	999	9	Morton	129 9 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 9 0000
	069	000	2	999	9	Norton	137 9 0000
	070	000	2	999	9	Osage	139 6 0000
	071	000	2	999	9	Osborne	141 9 0000
	072	000	2	999	9	Ottawa	143 9 0000
	073	000	2	999	9	Pawnee	145 9 0000
	074	000	2	999	9	Phillips	147 9 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 9 0000
	077	000	2	999	9	Rawlins	153 9 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 9 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 9 0000
	083	000	2	999	9	Rush	165 9 0000
	084	000	2	999	9	Russell	167 9 0000
	085	000	2			Saline	169 4 0000
				030	5	Salina	62700
				999	9	Balance of county	99999
	086	000	2	999	9	Scott	171 9 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
				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
KS					Kansas					KS	
090	000	2	999	9		Sheridan	179	9	0000		
091	000	2	999	9		Sherman	181	9	0000		
092	000	2	999	9		Smith	183	9	0000		
093	000	2	999	9		Stafford	185	9	0000		
094	000	2	999	9		Stanton	187	9	0000		
095	000	2	999	9		Stevens	189	9	0000		
096	000	2	999	9		Sumner	191	5	0000		
097	000	2	999	9		Thomas	193	9	0000		
098	000	2	999	9		Trego	195	9	0000		
099	000	2	999	9		Wabaunsee	197	9	0000		
100	000	2	999	9		Wallace	199	9	0000		
101	000	2	999	9		Washington	201	9	0000		
102	000	2	999	9		Wichita	203	9	0000		
103	000	2	999	9		Wilson	205	6	0000		
104	000	2	999	9		Woodson	207	9	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
Kentucky					Kentucky						
KY							KY				
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	9		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	5	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	9	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	4	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	9	0000		
021	000	2	999	9		Carroll	041	6	0000		
022	128	1	999	9		Carter	043	5	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	9	0000		
028	000	2	999	9		Crittenden	055	9	0000		
029	000	2	999	9		Cumberland	057	9	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	9	0000		
033	000	2	999	9		Estill	065	6	0000		
034	163	1	016	2		Fayette, coext. with Lexington-Fayette	067	2	4280		46027
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	9	0000		
039	057	1	999	9		Gallatin	077	9	1640		
040	000	2	999	9		Garrard	079	6	0000		
041	057	1	999	9		Grant	081	6	1640		
042	000	2				Graves	083	5	0000		
				033	6	Mayfield					50898
				999	9	Balance of county					99999
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	9	0000		
047	000	2				Hardin	093	4	0000		
				005	6	Elizabethtown					24274
				025	6	Radcliff					63912

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St Cnty P/S P/MSA Place
KY						Kentucky	KY
	047					Hardin, con.	093 4 0000
				999 9		Balance of county	99999
	048	000	2	999 9		Harlan	095 5 0000
	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 9 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 5		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 4 0000
	064	000	2	999 9		Lawrence	127 6 0000
	065	000	2	999 9		Lee	129 9 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 9 0000
	071	000	2	999 9		Logan	141 5 0000
	072	000	2	999 9		Lyon	143 9 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 9 0000
	076	163	1			Madison	151 4 4280
				026 5		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 5 0000
	083	000	2	999 9		Menifee	165 9 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			Nelson	179 5 0000
				031 6		Bardstown	03628
				999 9		Balance of county	99999
	091	000	2	999 9		Nicholas	181 9 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 9 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



Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
Kentucky											
KY	099	000	2	999	9	Powell	KY	197	6	0000	
	100	000	2			Pulaski		199	4	0000	
				029	6	Somerset					71688
				999	9	Balance of county					99999
	101	000	2	999	9	Robertson		201	9	0000	
	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	5	4280	
				010	6	Georgetown					30700
				999	9	Balance of county					99999
	106	000	2			Shelby		211	5	0000	
				034	6	Shelbyville					70050
				999	9	Balance of county					99999
	107	000	2	999	9	Simpson		213	6	0000	
	108	000	2	999	9	Spencer		215	6	0000	
	109	000	2			Taylor		217	6	0000	
				032	6	Campbellsville					12160
				999	9	Balance of county					99999
	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	9	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	9	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
LA				Louisiana			LA				
	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	5	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	2	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	9	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
				035	6	Zachary					83405
				999	9	Balance of parish					99999
	018	000	2	999	9	East Carroll		035	9	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	3	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	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
LA						Louisiana	LA				
	039	000	2	999	9	Pointe Coupee		077	6	0000	
	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	9	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	
				034	6	Mandeville					48225
				027	5	Slidell					70805
				999	9	Balance of parish					99999
	053	000	2			Tangipahoa		105	3	0000	
				011	6	Hammond					32755
				999	9	Balance of parish					99999
	054	000	2	999	9	Tensas		107	9	0000	
	055	126	1	999	9	Terrebonne		109	3	3350	
	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
ME						Maine	ME				
	001	162	1			Androscoggin		001	3	4243	
				001	6	Auburn					02060
				005	5	Lewiston					38740
				999	9	Balance of county					99999
	002	000	2	999	9	Aroostook		003	4	0000	
	003	219	1			Cumberland		005	2	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	4	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	4	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
MD						Maryland	MD				
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		999	9	Baltimore	005	1	0720		
004	021	1		003	1	Baltimore city	510	1	0720		04000
005	296	1		999	9	Calvert	009	4	8840		
006	000	2		999	9	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		
				022	6	Elkton					25800
				999	9	Balance of county					99999
009	296	1		999	9	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	4	Frederick					30325
				999	9	Balance of county					99999
012	000	2		999	9	Garrett	023	5	0000		
013	021	1				Harford	025	3	0720		
				001	6	Aberdeen					00125
				020	6	Bel Air					05550
				023	6	Havre de Grace					37600
				999	9	Balance of county					99999
014	021	1		999	9	Howard	027	3	0720		
015	000	2		999	9	Kent	029	6	0000		
016	296	1				Montgomery	031	1	8840		
				009	4	Gaithersburg					31175
				015	5	Rockville					67675
				017	6	Takoma Park					76650
				999	9	Balance of county					99999
017	296	1				Prince George's	033	1	8840		
				004	4	Bowie					08775
				006	6	College Park					18750
				010	6	Greenbelt					34775
				012	6	Hyattsville					41250
				013	6	Laurel					45900
				014	6	New Carrollton					55400
				999	9	Balance of county					99999
018	021	1		999	9	Queen Anne's	035	5	0720		
019	000	2		999	9	St. Mary's	037	4	0000		
020	000	2		999	9	Somerset	039	6	0000		
021	000	2				Talbot	041	5	0000		
				021	6	Easton					24475
				999	9	Balance of county					99999
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		999	9	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	
MA				Massachusetts					MA				
	001	023	1				Barnstable		001	3	0743		
				008	5		Barnstable Town					03690	
				031	5		Falmouth town					23105	
				113	6		Yarmouth town					82525	
				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	
				106	6		Mansfield town					38225	
				059	4		New Bedford					45000	
				064	5		North Attleborough town					46575	
				077	6		Somerset town					62430	
				083	4		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	5		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					40710	
				060	6		Newburyport					45245	
				108	5		North Andover town					46365	
				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					00765	
				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					19330	
				063	5		Northampton					46330	
				111	6		South Hadley town					64145	
				999	9		Balance of county					99999	
	009	037	1				Middlesex		017	0	1123		
				100	6		Acton town					00380	
				006	5		Arlington town					01605	
				101	6		Ashland town					02130	
				009	6		Belmont town					05070	
				011	5		Billerica town					05805	
				016	6		Burlington town					09840	
				017	3		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	

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
MA							Massachusetts	MA				
	009						Middlesex, con.		017	0	1123	
				051	6		Maynard town					39625
				052	4		Medford					39835
				053	5		Melrose					40115
				057	5		Natick town					43895
				061	4		Newton					45560
				109	6		North Reading town					48955
				071	6		Reading town					56130
				078	4		Somerville					62535
				080	6		Stoneham town					67665
				084	5		Tewksbury town					69415
				085	6		Wakefield town					72215
				086	4		Waltham					72600
				087	5		Watertown					73440
				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	9	0000	
	011	037	1				Norfolk		021	1	1123	
				013	5		Braintree town					07665
				015	4		Brookline town					09175
				104	6		Canton town					11315
				024	6		Dedham town					16495
				105	5		Franklin					25100
				037	6		Holbrook town					30455
				107	6		Medway town					39975
				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
				112	6		Walpole town					72495
				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
				103	5		Bridgewater town					08085
				014	4		Brockton					09000
				040	6		Hull town					31645
				068	4		Plymouth town					54310
				073	6		Rockland town					57775
				110	6		Scituate town					60330
				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	
				102	6		Auburn town					02760
				021	6		Clinton town					14395
				032	5		Fitchburg					23875
				034	6		Gardner					25485
				042	5		Leominster					35075
				055	5		Milford town					41165
				076	5		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
MI						Michigan	MI				
	001	000	2	999	9	Alcona		001	6	0000	
	002	000	2	999	9	Alger		003	9	0000	
	003	112	1			Allegan		005	3	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	9	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			Branch		023	5	0000	
				119	6	Coldwater					17020
				999	9	Balance of county					99999
	013	143	1			Calhoun		025	3	3720	
				008	4	Battle Creek					05920
				999	9	Balance of county					99999
	014	000	2			Cass		027	4	0000	
				071	6	Niles, part					57760
				999	9	Balance of county					99999
	015	000	2	999	9	Charlevoix		029	5	0000	
	016	000	2	999	9	Cheboygan		031	5	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	5	0000	
	019	156	1			Clinton		037	4	4040	
				133	5	East Lansing, part					24120
				999	9	Balance of county					99999
	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	3	4040	
				024	5	Delta charter 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
				121	6	Fenton					27760
				034	3	Flint					29000
				035	5	Flint township					29020
				039	5	Grand Blanc township					33300
				999	9	Balance of county					99999
	026	000	2	999	9	Gladwin		051	5	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	5	East Lansing, part					24120
				057	3	Lansing, part					46000
				063	5	Meridian charter township					53140
				999	9	Balance of county					99999
	034	000	2			Ionia		067	4	0000	
				124	6	Ionia					40860
				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
MI						Michigan	MI				
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	5	Mount Pleasant					56020
				999	9	Balance of county					99999
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	999	9		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
				127	5	Plainfield township					64660
				101	6	Walker					82960
				109	4	Wyoming					88940
				999	9	Balance of county					99999
042	000	2	999	9		Keweenaw	083	9		0000	
043	000	2	999	9		Lake	085	6		0000	
044	076	1	999	9		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	999	9		Livingston	093	3	0440		
048	000	2	999	9		Luce	095	9		0000	
049	000	2	999	9		Mackinac	097	6		0000	
050	076	1				Macomb	099	1	2160		
				019	5	Chesterfield township					15340
				021	4	Clinton township					16520
				026	5	Eastpointe					24290
				036	6	Fraser					30420
				048	6	Harrison township					36820
				125	4	Macomb township					50480
				066	6	Mount Clemens					55820
				086	5	Roseville					69800
				090	4	St. Clair Shores					70760
				092	4	Shelby charter township					72820
				095	3	Sterling Heights					76460
				102	3	Warren					84000
				999	9	Balance of county					99999
051	000	2	999	9		Manistee	101	6		0000	
052	000	2				Marquette	103	4		0000	
				061	6	Marquette					51900
				999	9	Balance of county					99999
053	000	2	999	9		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	999	9		Menominee	109	5		0000	
056	240	1				Midland	111	4	6960		
				064	5	Midland, part					53780
				999	9	Balance of county					99999
057	000	2	999	9		Missaukee	113	6		0000	
058	076	1				Monroe	115	3	2160		
				117	5	Bedford township					06740
				065	6	Monroe					55020
				999	9	Balance of county					99999
059	000	2	999	9		Montcalm	117	4		0000	
060	000	2	999	9		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	999	9		Newaygo	123	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
MI				Michigan	MI		
				Oakland			
	063	076	1	006 6 Auburn Hills	125	0	2160 04105
				011 6 Berkley			07660
				012 6 Beverly Hills village			08160
				014 6 Birmingham			08640
				015 5 Bloomfield township			09110
				020 6 Clawson			16160
				031 6 Farmington			27380
				032 4 Farmington Hills			27440
				033 6 Ferndale			27880
				049 6 Hazel Park			37420
				123 5 Independence township			40400
				060 5 Madison Heights			50560
				074 5 Novi			59440
				075 5 Oak Park			59920
				078 4 Pontiac			65440
				128 6 Rochester			69020
				084 4 Rochester Hills			69035
				087 4 Royal Oak			70040
				093 4 Southfield			74900
				129 6 South Lyon			75100
				100 4 Troy			80700
				103 4 Waterford township			84240
				105 4 West Bloomfield township			85480
				130 5 White Lake township			86860
				131 6 Wixom			88140
				999 9 Balance of county			99999
	064	000	2	999 9 Oceana	127	5	0000
	065	000	2	999 9 Ogemaw	129	6	0000
	066	000	2	999 9 Ontonagon	131	9	0000
	067	000	2	999 9 Osceola	133	6	0000
	068	000	2	999 9 Oscoda	135	9	0000
	069	000	2	999 9 Otsego	137	6	0000
	070	112	1		139	3	3000
				038 5 Georgetown township			31880
				040 6 Grand Haven			33340
				051 5 Holland, part			38640
				122 5 Holland township			38660
				999 9 Balance of county			99999
	071	000	2	999 9 Presque Isle	141	6	0000
	072	000	2	999 9 Roscommon	143	5	0000
	073	240	1		145	3	6960
				088 4 Saginaw			70520
				089 5 Saginaw charter township			70540
				999 9 Balance of county			99999
	074	076	1		147	3	2160
				080 5 Port Huron			65820
				999 9 Balance of county			99999
	075	000	2		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	9	0000
	078	000	2		155	4	0000
				076 6 Shiawassee			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		161	2	0440
				005 3 Ann Arbor			03000
				126 5 Pittsfield charter township			64560
				110 6 Ypsilanti			89140
				111 5 Ypsilanti township			89160
				999 9 Balance of county			99999
	082	076	1		163	0	2160
				003 5 Allen Park			01380
				118 6 Brownstown township			11220
				018 4 Canton township			13120
				022 4 Dearborn			21000
				023 4 Dearborn Heights			21020
				025 1 Detroit			22000
				029 6 Ecorse			24740
				037 5 Garden City			31420
				132 6 Grosse Ile township			35420

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
MI							Michigan	MI				
	082						Wayne, con.		163	0	2160	
		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	5				Plymouth township					65080
		081	4				Redford township					67625
		083	6				Riverview					68880
		085	6				Romulus					69420
		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
MN						Minnesota	MN				
	001	000	2	999	9	Aitkin		001	6	0000	
	002	183	1			Anoka		003	2	5120	
				002	5	Andover					01486
				003	6	Anoka					01720
				007	5	Blaine, part					06382
				017	6	Columbia Heights					12700
				018	4	Coon Rapids					13114
				084	6	East Bethel					17486
				029	5	Fridley					22814
				086	6	Ham Lake					26738
				087	6	Lino Lakes					37322
				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	4	St. Cloud, part					56896
				090	6	Sauk Rapids					58684
				999	9	Balance of county					99999
	006	000	2	999	9	Big Stone		011	9	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	4	5120	
				014	6	Chanhassen, part					10918
				015	6	Chaska					10972
				999	9	Balance of county					99999
	011	000	2	999	9	Cass		021	5	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	9	0000	
	016	000	2	999	9	Cook		031	9	0000	
	017	000	2	999	9	Cottonwood		033	6	0000	
	018	000	2			Crow Wing		035	4	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	4	Eagan					17288
				085	6	Farmington					20618
				031	6	Hastings, part					27530
				035	5	Inver Grove Heights					31076
				036	5	Lakeville					35180
				088	6	Mendota Heights					41696
				048	6	Northfield, part					46924
				089	6	Rosemount					55726
				066	6	South St. Paul					61492
				069	6	West St. Paul					69700
				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	9	0000	
	027	183	1			Hennepin		053	0	5120	
				008	4	Bloomington					06616

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
MN				Minnesota				MN				
	027						Hennepin, con.	053	0		5120	
				010	5		Brooklyn Center					07948
				011	4		Brooklyn Park					07966
				013	6		Champlin					10846
				014	6		Chanhassen, part					10918
				020	6		Crystal					14158
				023	4		Eden Prairie					18116
				024	5		Edina					18188
				030	6		Golden Valley					24308
				033	6		Hopkins					30140
				038	4		Maple Grove					40166
				041	2		Minneapolis					43000
				042	4		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	9		0000	
	036	000	2	999	9		Koochiching	071	6		0000	
	037	000	2	999	9		Lac qui Parle	073	9		0000	
	038	000	2	999	9		Lake	075	6		0000	
	039	000	2	999	9		Lake of the Woods	077	9		0000	
	040	000	2				LeSueur	079	5		0000	
				093	5		Mankato, part					39878
				999	9		Balance of county					99999
	041	000	2	999	9		Lincoln	081	9		0000	
	042	000	2				Lyon	083	5		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	9		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	9		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				Nobles	105	6		0000	
				092	6		Worthington					71734
				999	9		Balance of county					99999
	054	000	2	999	9		Norman	107	9		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	5		0000	
	059	000	2	999	9		Pipestone	117	9		0000	
	060	111	1	999	9		Polk	119	5		2985	
	061	000	2	999	9		Pope	121	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
MN				Minnesota				MN				
	062	183	1				Ramsey		123	1	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					47221
				060	5		Roseville					55852
				063	2		St. Paul					58000
				065	5		Shoreview					59998
				068	6		Vadnais Heights					66460
				070	6		White Bear Lake, part					69970
				999	9		Balance of county					99999
	063	000	2	999	9		Red Lake		125	9	0000	
	064	000	2	999	9		Redwood		127	6	0000	
	065	000	2	999	9		Renville		129	6	0000	
	066	000	2				Rice		131	4	0000	
				027	6		Faribault					20546
				048	6		Northfield, part					46924
				999	9		Balance of county					99999
	067	000	2	999	9		Rock		133	9	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
				091	6		Savage					58738
				064	6		Shakopee					59350
				999	9		Balance of county					99999
	071	183	1				Sherburne		141	4	5120	
				025	6		Elk River					18674
				061	4		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	4		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	9	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	5		Cottage Grove					13456
				031	6		Hastings, part					27530
				051	5		Oakdale					47680
				067	6		Stillwater					62824
				070	6		White Bear Lake, part					69970
				073	5		Woodbury					71428
				999	9		Balance of county					99999
	083	000	2	999	9		Watonwan		165	6	0000	
	084	000	2	999	9		Wilkin		167	9	0000	
	085	000	2				Winona		169	5	0000	
				072	5		Winona					71032
				999	9		Balance of county					99999
	086	183	1				Wright		171	4	5120	
				083	6		Buffalo					08452
				999	9		Balance of county					99999
	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
MS						Mississippi	MS				
	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	9	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			Carrroll		015	6	0000	
	009	000	2			Chickasaw		017	6	0000	
	010	000	2			Choctaw		019	9	0000	
	011	000	2			Claiborne		021	6	0000	
	012	000	2			Clarke		023	6	0000	
	013	000	2			Clay		025	6	0000	
				041	6	West Point					79120
				999	9	Balance of county					99999
	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			DeSoto		033	3	4920	
				038	6	Horn Lake					33700
				040	6	Olive Branch					54040
				030	5	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	9	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	4	Biloxi					06220
				014	4	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	9	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	9	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

Vital Statistics Codes					FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
MS							Mississippi	MS				
	038						Lauderdale, con.		075	4	0000	
				999	9		Balance of county					99999
	039	000	2	999	9		Lawrence		077	6	0000	
	040	000	2	999	9		Leake		079	6	0000	
	041	000	2				Lee		081	4	0000	
				032	5		Tupelo					74840
				999	9		Balance of county					99999
	042	000	2				Leflore		083	5	0000	
				012	6		Greenwood					29340
				999	9		Balance of county					99999
	043	000	2	999	9		Lincoln		085	5	0000	
	044	000	2				Lowndes		087	4	0000	
				008	5		Columbus					15380
				999	9		Balance of county					99999
	045	133	1				Madison		089	4	3560	
				004	6		Canton					11100
				017	3		Jackson, part					36000
				039	6		Madison					44520
				029	6		Ridgeland					62520
				999	9		Balance of county					99999
	046	000	2	999	9		Marion		091	5	0000	
	047	000	2	999	9		Marshall		093	5	0000	
	048	000	2	999	9		Monroe		095	5	0000	
	049	000	2	999	9		Montgomery		097	6	0000	
	050	000	2	999	9		Neshoba		099	5	0000	
	051	000	2	999	9		Newton		101	6	0000	
	052	000	2	999	9		Noxubee		103	6	0000	
	053	000	2				Oktibbeha		105	5	0000	
				031	6		Starkville					70240
				999	9		Balance of county					99999
	054	000	2	999	9		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	999	9		Perry		111	6	0000	
	057	000	2				Pike		113	5	0000	
				020	6		McComb					43280
				999	9		Balance of county					99999
	058	000	2	999	9		Pontotoc		115	5	0000	
	059	000	2	999	9		Prentiss		117	5	0000	
	060	000	2	999	9		Quitman		119	6	0000	
	061	133	1				Rankin		121	3	3560	
				002	6		Brandon					08300
				017	3		Jackson, part					36000
				027	6		Pearl					55760
				999	9		Balance of county					99999
	062	000	2	999	9		Scott		123	5	0000	
	063	000	2	999	9		Sharkey		125	9	0000	
	064	000	2	999	9		Simpson		127	5	0000	
	065	000	2	999	9		Smith		129	6	0000	
	066	000	2	999	9		Stone		131	6	0000	
	067	000	2				Sunflower		133	5	0000	
				016	6		Indianola					34740
				999	9		Balance of county					99999
	068	000	2	999	9		Tallahatchie		135	6	0000	
	069	000	2	999	9		Tate		137	5	0000	
	070	000	2	999	9		Tippah		139	6	0000	
	071	000	2	999	9		Tishomingo		141	6	0000	
	072	000	2	999	9		Tunica		143	9	0000	
	073	000	2	999	9		Union		145	5	0000	
	074	000	2	999	9		Walthall		147	6	0000	
	075	000	2				Warren		149	5	0000	
				033	5		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	999	9		Wayne		153	6	0000	
	078	000	2	999	9		Webster		155	6	0000	
	079	000	2	999	9		Wilkinson		157	6	0000	
	080	000	2	999	9		Winston		159	6	0000	
	081	000	2	999	9		Yalobusha		161	6	0000	
	082	000	2				Yazoo		163	5	0000	
				034	6		Yazoo City					81520



Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
MS						Mississippi	MS				
	082					Yazoo, con.		163	5	0000	
			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	
MO				Missouri				MO					
	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	9		0000		
	004	000	2				Audrain	007	5		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	9		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	
				067	6		Jackson					35648	
				999	9		Balance of county					99999	
	017	000	2	999	9		Carroll	033	6		0000		
	018	000	2	999	9		Carter	035	9		0000		
	019	145	1				Cass	037	4		3760		
				004	6		Belton					04384	
				028	2		Kansas City, part					38000	
				032	4		Lee's Summit, part					41348	
				073	6		Raymore					60752	
				999	9		Balance of county					99999	
	020	000	2	999	9		Cedar	039	6		0000		
	021	000	2	999	9		Chariton	041	9		0000		
	022	270	1				Christian	043	4		7920		
				072	6		Nixa					52616	
				078	3		Springfield, part					70000	
				999	9		Balance of county					99999	
	023	000	2	999	9		Clark	045	9		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	5		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	9		0000		
	030	000	2	999	9		Dallas	059	6		0000		
	031	000	2	999	9		Daviess	061	9		0000		
	032	000	2	999	9		DeKalb	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	9		0000		

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
MO						Missouri	MO				
	039	270	1			Greene		077	3	7920	
				052	3	Springfield, part					70000
				999	9	Balance of county					99999
	040	000	2	999	9	Grundy		079	6	0000	
	041	000	2	999	9	Harrison		081	9	0000	
	042	000	2	999	9	Henry		083	6	0000	
	043	000	2	999	9	Hickory		085	9	0000	
	044	000	2	999	9	Holt		087	9	0000	
	045	000	2	999	9	Howard		089	6	0000	
	046	000	2			Howell		091	5	0000	
				075	6	West Plains					78928
				999	9	Balance of county					99999
	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	4	Lee's Summit, part					41348
				042	5	Raytown					60788
				999	9	Balance of county					99999
	049	142	1			Jasper		097	3	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	9	0000	
	053	000	2			Laclede		105	5	0000	
				069	6	Lebanon					41168
				999	9	Balance of county					99999
	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	9	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	9	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	9	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	4	3710	
				027	5	Joplin, part					37592
				071	6	Neosho					51572
				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	9	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

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
MO				Missouri			MO
081						Phelps, con.	161 5 0000
				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 5 0000
085	000	2		999 9		Pulaski	169 5 0000
086	000	2		999 9		Putnam	171 9 0000
087	000	2				Ralls	173 9 0000
				022 6		Hannibal, part	30214
				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		999 9		Reynolds	179 9 0000
091	000	2		999 9		Ripley	181 6 0000
092	243	1				St. Charles	183 2 7040
				068 6		Lake St. Louis	40043
				039 5		O'Fallon	54074
				046 4		St. Charles	64082
				049 4		St. Peters	65126
				999 9		Balance of county	99999
093	000	2		999 9		St. Clair	185 9 0000
094	000	2		999 9		Ste. Genevieve	186 6 0000
095	000	2				St. Francois	187 4 0000
				016 6		Farmington	23752
				070 6		Manchester	45668
				074 6		Town and Country	73618
				076 5		Wildwood	79820
				999 9		Balance of county	99999
096	243	1				St. Louis	189 0 7040
				002 5		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 5		Hazelwood	31276
				026 6		Jennings	37178
				031 5		Kirkwood	39044
				035 5		Maryland Heights	46586
				040 6		Overland	55550
				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
098	000	2				Saline	195 6 0000
				034 6		Marshall	46316
				999 9		Balance of county	99999
099	000	2		999 9		Schuyler	197 9 0000
100	000	2		999 9		Scotland	199 9 0000
101	000	2				Scott	201 5 0000
				008 5		Cape Girardeau, part	11242
				051 6		Sikeston, part	67790
				999 9		Balance of county	99999
102	000	2		999 9		Shannon	203 9 0000
103	000	2		999 9		Shelby	205 9 0000
104	000	2		999 9		Stoddard	207 5 0000
105	000	2		999 9		Stone	209 5 0000
106	000	2		999 9		Sullivan	211 9 0000
107	000	2		999 9		Taney	213 5 0000
108	000	2		999 9		Texas	215 6 0000
109	000	2		999 9		Vernon	217 6 0000
110	243	1		999 9		Warren	219 6 7040
111	000	2		999 9		Washington	221 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
MO						Missouri	MO				
	112	000	2	999	9	Wayne		223	6	0000	
	113	270	1	999	9	Webster		225	5	7920	
	114	000	2	999	9	Worth		227	9	0000	
	115	000	2	999	9	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
MT						Montana	MT				
	001	000	2	999	9	Beaverhead		001	9	0000	
	002	000	2	999	9	Big Horn		003	6	0000	
	003	000	2	999	9	Blaine		005	9	0000	
	004	000	2	999	9	Broadwater		007	9	0000	
	005	000	2	999	9	Carbon		009	9	0000	
	006	000	2	999	9	Carter		011	9	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	9	0000	
	009	000	2	999	9	Custer		017	6	0000	
	010	000	2	999	9	Daniels		019	9	0000	
	011	000	2	999	9	Dawson		021	9	0000	
	012	000	2	001	6	Deer Lodge, coext. with Anaconda-Deer Lo		023	9	0000	01675
	013	000	2	999	9	Fallon		025	9	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	5	Bozeman					08950
				999	9	Balance of county					99999
	017	000	2	999	9	Garfield		033	9	0000	
	018	000	2	999	9	Glacier		035	6	0000	
	019	000	2	999	9	Golden Valley		037	9	0000	
	020	000	2	999	9	Granite		039	9	0000	
	021	000	2	999	9	Hill		041	6	0000	
	022	000	2	999	9	Jefferson		043	6	0000	
	023	000	2	999	9	Judith Basin		045	9	0000	
	024	000	2	999	9	Lake		047	5	0000	
	025	000	2			Lewis and Clark		049	4	0000	
				007	5	Helena					35600
				999	9	Balance of county					99999
	026	000	2	999	9	Liberty		051	9	0000	
	027	000	2	999	9	Lincoln		053	6	0000	
	028	000	2	999	9	McCone		055	9	0000	
	029	000	2	999	9	Madison		057	9	0000	
	030	000	2	999	9	Meagher		059	9	0000	
	031	000	2	999	9	Mineral		061	9	0000	
	032	000	2			Missoula		063	4	0000	
				009	4	Missoula					50200
				999	9	Balance of county					99999
	033	000	2	999	9	Musselshell		065	9	0000	
	034	000	2	999	9	Park		067	6	0000	
	035	000	2	999	9	Petroleum		069	9	0000	
	036	000	2	999	9	Phillips		071	9	0000	
	037	000	2	999	9	Pondera		073	9	0000	
	038	000	2	999	9	Powder River		075	9	0000	
	039	000	2	999	9	Powell		077	9	0000	
	040	000	2	999	9	Prairie		079	9	0000	
	041	000	2	999	9	Ravalli		081	5	0000	
	042	000	2	999	9	Richland		083	9	0000	
	043	000	2	999	9	Roosevelt		085	6	0000	
	044	000	2	999	9	Rosebud		087	9	0000	
	045	000	2	999	9	Sanders		089	6	0000	
	046	000	2	999	9	Sheridan		091	9	0000	
	047	000	2			Silver Bow		093	5	0000	
				004	5	Butte-Silver Bow					11397
				999	9	Balance of county					99999
	048	000	2	999	9	Stillwater		095	9	0000	
	049	000	2	999	9	Sweet Grass		097	9	0000	
	050	000	2	999	9	Teton		099	9	0000	
	051	000	2	999	9	Toole		101	9	0000	
	052	000	2	999	9	Treasure		103	9	0000	
	053	000	2	999	9	Valley		105	9	0000	
	054	000	2	999	9	Wheatland		107	9	0000	
	055	000	2	999	9	Wibaux		109	9	0000	
	056	029	1			Yellowstone		111	3	0880	
				002	4	Billings					06550
				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	
NE				Nebraska				NE				
001	000		2			Adams	001	5		0000		
				006	6	Hastings					21415	
				999	9	Balance of county					99999	
002	000		2	999	9	Antelope	003	9		0000		
003	000		2	999	9	Arthur	005	9		0000		
004	000		2	999	9	Banner	007	9		0000		
005	000		2	999	9	Blaine	009	9		0000		
006	000		2	999	9	Boone	011	9		0000		
007	000		2	999	9	Box Butte	013	6		0000		
008	000		2	999	9	Boyd	015	9		0000		
009	000		2	999	9	Brown	017	9		0000		
010	000		2			Buffalo	019	5		0000		
				007	5	Kearney					25055	
				999	9	Balance of county					99999	
011	000		2	999	9	Burt	021	9		0000		
012	000		2	999	9	Butler	023	9		0000		
013	206		1	999	9	Cass	025	6		5920		
014	000		2	999	9	Cedar	027	9		0000		
015	000		2	999	9	Chase	029	9		0000		
016	000		2	999	9	Cherry	031	9		0000		
017	000		2	999	9	Cheyenne	033	9		0000		
018	000		2	999	9	Clay	035	9		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			Dakota	043	6		7720		
				016	6	South Sioux City					46030	
				999	9	Balance of county					99999	
023	000		2	999	9	Dawes	045	9		0000		
024	000		2			Dawson	047	6		0000		
				015	6	Lexington					26910	
				999	9	Balance of county					99999	
025	000		2	999	9	Deuel	049	9		0000		
026	000		2	999	9	Dixon	051	9		0000		
027	000		2			Dodge	053	5		0000		
				004	5	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	9		0000		
030	000		2	999	9	Fillmore	059	9		0000		
031	000		2	999	9	Franklin	061	9		0000		
032	000		2	999	9	Frontier	063	9		0000		
033	000		2	999	9	Furnas	065	9		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	9		0000		
036	000		2	999	9	Garfield	071	9		0000		
037	000		2	999	9	Gosper	073	9		0000		
038	000		2	999	9	Grant	075	9		0000		
039	000		2	999	9	Greeley	077	9		0000		
040	000		2			Hall	079	4		0000		
				005	5	Grand Island					19595	
				999	9	Balance of county					99999	
041	000		2	999	9	Hamilton	081	9		0000		
042	000		2	999	9	Harlan	083	9		0000		
043	000		2	999	9	Hayes	085	9		0000		
044	000		2	999	9	Hitchcock	087	9		0000		
045	000		2	999	9	Holt	089	6		0000		
046	000		2	999	9	Hooker	091	9		0000		
047	000		2	999	9	Howard	093	9		0000		
048	000		2	999	9	Jefferson	095	9		0000		
049	000		2	999	9	Johnson	097	9		0000		
050	000		2	999	9	Kearney	099	9		0000		
051	000		2	999	9	Keith	101	9		0000		
052	000		2	999	9	Keya Paha	103	9		0000		
053	000		2	999	9	Kimball	105	9		0000		
054	000		2	999	9	Knox	107	9		0000		
055	165		1			Lancaster	109	2		4360		
				008	3	Lincoln					28000	
				999	9	Balance of county					99999	
056	000		2			Lincoln	111	5		0000		
				010	6	North Platte					35000	

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
NE				Nebraska			NE				
	056					Lincoln, con.	111	5		0000	
				999	9	Balance of county					99999
	057	000	2	999	9	Logan	113	9		0000	
	058	000	2	999	9	Loup	115	9		0000	
	059	000	2	999	9	McPherson	117	9		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	9		0000	
	062	000	2	999	9	Morrill	123	9		0000	
	063	000	2	999	9	Nance	125	9		0000	
	064	000	2	999	9	Nemaha	127	9		0000	
	065	000	2	999	9	Nuckolls	129	9		0000	
	066	000	2	999	9	Otoe	131	6		0000	
	067	000	2	999	9	Pawnee	133	9		0000	
	068	000	2	999	9	Perkins	135	9		0000	
	069	000	2	999	9	Phelps	137	9		0000	
	070	000	2	999	9	Pierce	139	9		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	9		0000	
	073	000	2	999	9	Red Willow	145	6		0000	
	074	000	2	999	9	Richardson	147	9		0000	
	075	000	2	999	9	Rock	149	9		0000	
	076	000	2	999	9	Saline	151	6		0000	
	077	206	1			Sarpy	153	3		5920	
				002	5	Bellevue					03950
				014	6	La Vista					26385
				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	9		0000	
	082	000	2	999	9	Sherman	163	9		0000	
	083	000	2	999	9	Sioux	165	9		0000	
	084	000	2	999	9	Stanton	167	9		0000	
	085	000	2	999	9	Thayer	169	9		0000	
	086	000	2	999	9	Thomas	171	9		0000	
	087	000	2	999	9	Thurston	173	9		0000	
	088	000	2	999	9	Valley	175	9		0000	
	089	206	1	999	9	Washington	177	6		5920	
	090	000	2	999	9	Wayne	179	9		0000	
	091	000	2	999	9	Webster	181	9		0000	
	092	000	2	999	9	Wheeler	183	9		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				
NV					Nevada					NV				
001	000	2	002	4	Carson City city	510	4	0000		09700				
002	000	2	999	9	Churchill	001	6	0000						
003	159	1			Clark	003	0	4120						
			001	6	Boulder City					06500				
			004	3	Henderson					31900				
			005	2	Las Vegas					40000				
			006	3	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	9	0000						
007	000	2	999	9	Eureka	011	9	0000						
008	000	2	999	9	Humboldt	013	6	0000						
009	000	2	999	9	Lander	015	9	0000						
010	000	2	999	9	Lincoln	017	9	0000						
011	000	2	999	9	Lyon	019	5	0000						
012	000	2	999	9	Mineral	021	9	0000						
013	159	1	999	9	Nye	023	5	4120						
014	000	2	999	9	Pershing	027	9	0000						
015	000	2	999	9	Storey	029	9	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	9	0000						

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
NH						New Hampshire	NH				
001	000	2				Belknap	001	4	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	3	Manchester					45140
				016	5	Merrimack town					47540
				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	2	1123		
				014	5	Derry town					17940
				015	6	Hampton town					33060
				010	6	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
NJ	001	017	1				New Jersey	NJ	001	2	0560	
							Atlantic					
				003	5		Atlantic City					02080
				014	6		Brigantine					07810
				188	5		Egg Harbor township					20290
				191	5		Galloway township					25560
				057	6		Hammonton					29430
				130	6		Pleasantville					59640
				148	6		Somers Point					68430
				163	6		Ventnor City					75620
				999	9		Balance of county					99999
	002	028	1				Bergen		003	1	0875	
				007	5		Bergenfield borough					05170
				022	6		Cliffside Park borough					13570
				031	6		Dumont borough					18400
				038	6		Elmwood Park borough					21300
				039	5		Englewood					21480
				042	5		Fair Lawn borough					22470
				043	6		Fairview borough					22560
				045	5		Fort Lee borough					24420
				189	6		Franklin Lakes borough					24990
				048	5		Garfield					25770
				050	6		Glen Rock borough					26640
				053	5		Hackensack					28680
				060	6		Hasbrouck Heights borough					30420
				194	6		Hillsdale borough					31920
				196	6		Little Ferry borough					40680
				081	6		Lodi borough					41100
				083	6		Lyndhurst township					42090
				106	6		New Milford borough					51660
				108	6		North Arlington borough					52320
				113	6		Oakland borough					53850
				117	6		Palisades Park borough					55770
				118	5		Paramus borough					55950
				135	6		Ramsey borough					61680
				201	6		Ridgefield borough					62910
				137	6		Ridgefield Park village					62940
				138	6		Ridgewood village					63000
				140	6		River Edge borough					63360
				143	6		Rutherford borough					65280
				144	6		Saddle Brook township					65340
				156	5		Teaneck township					72360
				157	6		Tenafly borough					72420
				167	6		Wallington borough					76490
				175	6		Westwood borough					80270
				180	6		Wyckoff township					83050
				999	9		Balance of county					99999
	003	214	1				Burlington		005	2	6160	
				184	6		Burlington township					08950
				019	6		Cinnaminson township					12940
				026	6		Delran township					17440
				040	5		Evesham township					22110
				044	6		Florence township					23850
				088	6		Maple Shade township					43740
				098	6		Moorestown township					47880
				101	6		Mount Holly township					48900
				102	5		Mount Laurel township					49020
				122	5		Pemberton township					57510
				176	5		Willingboro township					81440
				999	9		Balance of county					99999
	004	214	1				Camden		007	1	6160	
				006	6		Bellmawr borough					04750
				015	4		Camden					10000
				018	4		Cherry Hill township					12280
				024	6		Collingswood borough					14260
				052	4		Gloucester township					26760
				051	6		Gloucester City					26820
				055	6		Haddon township					28740
				054	6		Haddonfield borough					28770
				078	6		Lindenwold borough					40440
				123	5		Pennsauken township					57660
				198	6		Pine Hill borough					58770
				166	5		Voorhees township					76220
				177	5		Winslow township					81740
				999	9		Balance of county					99999

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
NJ						New Jersey	
	005	017	1			Cape May	
				114	6	Ocean City	54360
				999	9	Balance of county	99999
	006	293	1			Cumberland	
				012	6	Bridgeton	07600
				095	5	Millville	46680
				165	4	Vineland	76070
				999	9	Balance of county	99999
	007	198	1			Essex	
				005	5	Belleville township	04695
				010	5	Bloomfield township	06260
				017	6	Cedar Grove township	11200
				186	5	City of Orange township	13045
				033	4	East Orange	19390
				069	4	Irvington township	34450
				080	5	Livingston township	40890
				089	6	Maplewood township	43800
				094	6	Millburn township	46380
				097	5	Montclair township	47500
				104	2	Newark	51000
				112	5	Nutley township	53680
				151	6	South Orange Village township	69274
				164	6	Verona township	75815
				205	6	West Caldwell township	78510
				207	5	West Orange township	79800
				999	9	Balance of county	99999
				999	9	Balance of county	99999
	008	214	1			Gloucester	
				028	5	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	
				004	4	Bayonne	03580
				192	6	Guttenberg	28650
				059	6	Harrison	30210
				066	5	Hoboken	32250
				071	3	Jersey City	36000
				073	5	Kearny	36510
				109	4	North Bergen township	52470
				147	6	Secaucus	66570
				161	4	Union City	74630
				170	6	Weehawken township	77930
				173	5	West New York	79610
				999	9	Balance of county	99999
	010	181	1	999	9	Hunterdon	5015
	011	284	1			Mercer	
				034	6	East Windsor township	19780
				041	5	Ewing township	22185
				056	4	Hamilton township	29310
				075	5	Lawrence township	39510
				133	6	Princeton borough	60900
				199	6	Princeton township	60915
				160	4	Trenton	74000
				999	9	Balance of county	99999
	012	181	1			Middlesex	
				016	6	Carteret borough	10750
				032	5	East Brunswick township	19000
				036	4	Edison township	20230
				063	6	Highland Park borough	31470
				091	6	Metuchen borough	45690
				092	6	Middlesex borough	45900
				208	5	Monroe township	47280
				105	5	New Brunswick	51210
				110	5	North Brunswick township	52560
				116	4	Old Bridge township	54705
				125	5	Perth Amboy	58200
				127	4	Piscataway township	59010
				129	6	Plainsboro township	59280
				145	5	Sayreville borough	65790
				150	5	South Brunswick township	68790

Vital Statistics Codes				FIPS Codes				
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place	
NJ				New Jersey				NJ
	012			Middlesex, con.				023 1 5015
				152	6	South Plainfield borough	69390	
				153	6	South River borough	69420	
				178	4	Woodbridge township	82000	
				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	
				190	5	Freehold township	25230	
				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	
				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	
				203	5	Wall township	76460	
				999	9	Balance of county	99999	
	014	198	1	Morris				027 2 5640
				185	6	Chatham township	12130	
				027	6	Denville township	17650	
				029	6	Dover	18070	
				187	6	East Hanover township	19210	
				058	6	Hanover township	29550	
				076	6	Lincoln Park borough	40290	
				084	6	Madison borough	42510	
				197	6	Montville township	47670	
				100	6	Morris township	48090	
				099	6	Morristown	48300	
				119	4	Parsippany-Troy Hills township	56460	
				124	6	Pequannock township	58110	
				200	6	Randolph township	61890	
				202	6	Roxbury township	64980	
				999	9	Balance of county	99999	
	015	186	1	Ocean				029 1 5190
				181	6	Beachwood borough	04180	
				009	5	Berkeley township	05305	
				011	4	Brick township	07420	
				030	4	Dover township	18130	
				070	5	Jackson township	34680	
				195	5	Lacey township	37380	
				074	4	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	40620	
				120	4	Passaic	56550	
				121	3	Paterson	57000	
				132	6	Pompton Lakes borough	60090	
				139	6	Ringwood borough	63150	
				204	6	Wanaque borough	76730	
				169	4	Wayne township	77840	
				206	5	West Milford township	79460	
				174	6	West Paterson borough	79820	
				999	9	Balance of county	99999	
	017	214	1	Salem				033 4 6160
	018	181	1	Somerset				035 2 5015
				182	6	Bernards township	05560	
				183	6	Bound Brook borough	06790	
				013	5	Bridgewater township	07720	
				046	4	Franklin township	24900	
				064	5	Hillsborough township	31890	
				087	6	Manville borough	43620	
				111	6	North Plainfield borough	53280	
				149	6	Somerville borough	68460	

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
NJ				New Jersey				NJ			
018						Somerset, con.	035	2		5015	
				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	1		5640	
				008	6	Berkeley Heights township					05320
				021	6	Clark township					13150
				025	6	Cranford township					15640
				037	3	Elizabeth					21000
				065	6	Hillside township					31980
				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					66060
				154	6	Springfield township					70020
				155	6	Summit					71430
				162	4	Union township					74480
				172	5	Westfield					79040
				999	9	Balance of county					99999
021	198	1				Warren	041	3		5640	
				193	6	Hackettstown					28710
				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	Place	
NM				New Mexico				NM
001	005	1				Bernalillo	0200	
			002	2		Albuquerque	02000	
			019	4		Rio Rancho, part	63460	
			999	9		Balance of county	99999	
002	000	2	999	9		Catron	0000	
003	000	2				Chaves	0000	
			014	5		Roswell	64930	
			999	9		Balance of county	99999	
004	000	2	999	9		Cibola	0000	
005	000	2	999	9		Colfax	0000	
006	000	2				Curry	0000	
			005	5		Clovis	16420	
			999	9		Balance of county	99999	
007	000	2	999	9		De Baca	0000	
008	158	1				Dona Ana	4100	
			010	4		Las Cruces	39380	
			018	6		Sunland Park	75640	
			999	9		Balance of county	99999	
009	000	2				Eddy	0000	
			003	6		Artesia	05220	
			004	5		Carlsbad	12150	
			999	9		Balance of county	99999	
010	000	2				Grant	0000	
			016	6		Silver City	73260	
			999	9		Balance of county	99999	
011	000	2	999	9		Guadalupe	0000	
012	000	2	999	9		Harding	0000	
013	000	2	999	9		Hidalgo	0000	
014	000	2				Lea	0000	
			009	5		Hobbs	32520	
			999	9		Balance of county	99999	
015	000	2	999	9		Lincoln	0000	
016	255	1	999	9		Los Alamos	7490	
017	000	2				Luna	0000	
			006	6		Deming	20270	
			999	9		Balance of county	99999	
018	000	2				McKinley	0000	
			008	6		Gallup	28460	
			999	9		Balance of county	99999	
019	000	2	999	9		Mora	0000	
020	000	2				Otero	0000	
			001	5		Alamogordo	01780	
			999	9		Balance of county	99999	
021	000	2	999	9		Quay	0000	
022	000	2	999	9		Rio Arriba	0000	
023	000	2				Roosevelt	0000	
			012	6		Portales	59260	
			999	9		Balance of county	99999	
024	005	1				Sandoval	0200	
			013	4		Rio Rancho, part	63460	
			999	9		Balance of county	99999	
025	000	2				San Juan	0000	
			007	5		Farmington	25800	
			999	9		Balance of county	99999	
026	000	2				San Miguel	0000	
			011	6		Las Vegas	39940	
			999	9		Balance of county	99999	
027	255	1				Santa Fe	7490	
			015	4		Santa Fe	70500	
			999	9		Balance of county	99999	
028	000	2	999	9		Sierra	0000	
029	000	2	999	9		Socorro	0000	
030	000	2	999	9		Taos	0000	
031	000	2	999	9		Torrance	0000	
032	000	2	999	9		Union	0000	
033	005	1				Valencia	0200	
			017	6		Los Lunas village	43370	
			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
NY							New York	NY				
	001	004	1				Albany		001	2	0160	
				001	4		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	5	0000	
	003	031	1				Broome		007	3	0960	
				008	5		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
				106	5		East Fishkill town					21996
				076	5		Poughkeepsie					59641
				999	9		Balance of county					99999
	014	043	1				Erie		029	1	1280	
				012	2		Buffalo					11000
				104	5		Clarence town					15825
				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	4	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	9	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



Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St Cnty P/S P/MSA Place
NY						New York	NY
	026					Monroe, con.	055 1 6840
				030	5	Gates town	28442
				035	4	Greece town	30290
				039	5	Henrietta town	34099
				040	4	Irondequoit town	37726
				072	5	Penfield town	57144
				078	3	Rochester	63000
				999	9	Balance of county	99999
	027	004	1			Montgomery	057 5 0160
				002	6	Amsterdam	02066
				999	9	Balance of county	99999
	028	193	1			Nassau	059 0 5380
				022	6	East Rockaway village	22876
				025	6	Floral Park village	26264
				027	5	Freeport village	27485
				029	6	Garden City village	28178
				032	5	Glen Cove	29113
				038	4	Hempstead village	33139
				050	5	Long Beach	43335
				051	6	Lynbrook village	43874
				054	6	Massapequa Park village	45997
				057	6	Mineola village	47636
				079	6	Rockville Centre village	63264
				094	5	Valley Stream village	76705
				098	6	Westbury village	79444
				999	9	Balance of county	99999
	029	197	1			New York city	5600 51000
				087	0	Staten Island borough, Richmond county	085 2
				077	0	Queens borough, Queens county	081 0
				053	0	Manhattan borough, New York county	061 0
				011	0	Brooklyn borough, Kings county	047 0
				010	0	Bronx borough, Bronx county	005 0
	030	043	1			Niagara	063 3 1280
				049	6	Lockport	43082
				061	4	Niagara Falls	51055
				063	5	North Tonawanda	53682
				999	9	Balance of county	99999
	031	289	1			Oneida	065 3 8680
				080	5	Rome	63418
				093	4	Utica	76540
				999	9	Balance of county	99999
	032	276	1			Onondaga	067 2 8160
				089	3	Syracuse	73000
				999	9	Balance of county	99999
	033	236	1			Ontario	069 3 6840
				013	6	Canandaigua	12144
				031	6	Geneva, part	28640
				999	9	Balance of county	99999
	034	199	1			Orange	071 2 5660
				108	6	Kiryas Joel village	39853
				056	5	Middletown	47042
				059	5	Newburgh	50034
				110	5	Newburgh town	50045
				999	9	Balance of county	99999
	035	236	1			Orleans	073 5 6840
	036	276	1			Oswego	075 3 8160
				028	6	Fulton	27815
				069	6	Oswego	55574
				999	9	Balance of county	99999
	037	000	2			Otsego	077 4 0000
				067	6	Oneonta	54881
				999	9	Balance of county	99999
	038	197	1			Putnam	079 4 5600
				014	5	Carmel town	12529
				999	9	Balance of county	99999
	039	004	1			Rensselaer	083 3 0160
				092	5	Troy	75484
				999	9	Balance of county	99999
	040	197	1			Rockland	087 2 5600
				107	6	Haverstraw village	32754
				086	5	Spring Valley village	70420
				088	6	Suffern village	71894
				111	6	West Haverstraw village	80203
				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
NY							New York	NY				
041	000	2					St. Lawrence	089	3		0000	
				055	6		Massena village					46019
				064	6		Ogdensburg					54485
				999	9		Balance of county					99999
042	004	1					Saratoga	091	3		0160	
				016	5		Clifton Park town					16353
				083	5		Saratoga Springs					65255
				999	9		Balance of county					99999
043	004	1					Schenectady	093	3		0160	
				062	6		Niskayuna town					51264
				081	5		Rotterdam town					63935
				085	4		Schenectady					65508
				999	9		Balance of county					99999
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
				109	6		Lake Grove village					40530
				048	5		Lindenhurst village					42554
				070	6		Patchogue village					56660
				113	5		Riverhead town					61984
				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
				112	5		Queensbury town					60356
				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	
				105	6		Dobbs Ferry village					20698
				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	5		Port Chester village					59223
				082	6		Rye					64309
				084	6		Scarsdale village					65431
				090	6		Tarrytown village					73176
				100	4		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
NC						North Carolina	NC
001	116	1				Alamance	001 3 3120
				005	5	Burlington	09060
				018	6	Graham	27280
				999	9	Balance of county	99999
002	124	1	999	9	9	Alexander	003 5 3290
003	000	2	999	9	9	Alleghany	005 6 0000
004	000	2	999	9	9	Anson	007 5 0000
005	000	2	999	9	9	Ashe	009 6 0000
006	000	2	999	9	9	Avery	011 6 0000
007	000	2	999	9	9	Beaufort	013 5 0000
008	000	2	999	9	9	Bertie	015 6 0000
009	000	2	999	9	9	Bladen	017 5 0000
010	305	1	999	9	9	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 3 1520
				010	4	Concord	14100
				026	5	Kannapolis, part	35200
				999	9	Balance of county	99999
014	124	1				Caldwell	027 4 3290
				075	5	Hickory, part	31060
				030	6	Lenoir	37760
				999	9	Balance of county	99999
015	000	2				Camden	029 9 0000
				013	6	Elizabeth City, part	20580
				999	9	Balance of county	99999
016	000	2	999	9	9	Carteret	031 4 0000
017	000	2	999	9	9	Caswell	033 6 0000
018	124	1				Catawba	035 3 3290
				023	5	Hickory, part	31060
				069	6	Newton	47000
				999	9	Balance of county	99999
019	226	1				Chatham	037 5 6640
				073	4	Cary, part	10740
				999	9	Balance of county	99999
020	000	2	999	9	9	Cherokee	039 6 0000
021	000	2	999	9	9	Chowan	041 6 0000
022	000	2	999	9	9	Clay	043 9 0000
023	000	2				Cleveland	045 4 0000
				044	6	Shelby	61200
				999	9	Balance of county	99999
024	000	2	999	9	9	Columbus	047 4 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	3	Fayetteville	22920
				065	6	Hope Mills	32640
				999	9	Balance of county	99999
027	200	1	999	9	9	Currituck	053 6 5720
028	000	2	999	9	9	Dare	055 5 0000
029	116	1				Davidson	057 3 3120
				024	4	High Point, part	31400
				031	6	Lexington	38060
				047	6	Thomasville, part	67420
				999	9	Balance of county	99999
030	116	1	999	9	9	Davie	059 5 3120
031	000	2	999	9	9	Duplin	061 5 0000
032	226	1				Durham	063 3 6640
				008	5	Chapel Hill, part	11800
				011	3	Durham, part	19000
				076	2	Raleigh, part	55000
				999	9	Balance of county	99999
033	238	1				Edgecombe	065 4 6895
				041	4	Rocky Mount, part	57500
				046	6	Tarboro	66700
				999	9	Balance of county	99999
034	116	1				Forsyth	067 2 3120
				062	6	Clemmons village	12960

Vital Statistics Codes			FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
NC						North Carolina	NC				
	034					Forsyth, con.		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	999	9	Franklin		069	5	6640	
	036	051	1			Gaston		071	3	1520	
				016	4	Gastonia					25580
				999	9	Balance of county					99999
	037	000	2	999	9	Gates		073	6	0000	
	038	000	2	999	9	Graham		075	9	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	4	0000	
	045	000	2			Henderson		089	4	0000	
				064	6	Hendersonville					30720
				999	9	Balance of county					99999
	046	000	2	999	9	Hertford		091	6	0000	
	047	000	2	999	9	Hoke		093	5	0000	
	048	000	2	999	9	Hyde		095	9	0000	
	049	000	2			Iredell		097	3	0000	
				068	6	Mooresville					44220
				045	6	Statesville					64740
				999	9	Balance of county					99999
	050	000	2	999	9	Jackson		099	5	0000	
	051	226	1			Johnston		101	3	6640	
				070	6	Smithfield					62520
				999	9	Balance of county					99999
	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	6	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	5	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	1	Charlotte					12000
				063	6	Cornelius					14700
				066	6	Huntersville					33120
				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	5	0000	
	063	000	2			Moore		125	4	0000	
				071	6	Southern Pines					63120
				999	9	Balance of county					99999
	064	238	1			Nash		127	4	6895	
				041	4	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	4	Jacksonville					34200
				999	9	Balance of county					99999
	068	226	1			Orange		135	3	6640	
				006	6	Carrboro					10620
				008	5	Chapel Hill, part					11800

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
NC				North Carolina				NC				
	068						Orange, con.	135	3		6640	
				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	4		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
				077	6		Thomasville, part					67420
				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	5		Salisbury					58860
				999	9		Balance of county					99999
	081	000	2	999	9		Rutherford	161	4		0000	
	082	000	2	999	9		Sampson	163	4		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	9		0000	
	090	051	1				Union	179	3		1520	
				067	6		Indian Trail					33560
				035	5		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	1		6640	
				061	6		Apex					01520
				007	4		Cary, part					10740
				074	3		Durham, part					19000
				015	6		Garner					25480
				038	2		Raleigh, part					55000
				072	6		Wake Forest					70540
				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
ND						North Dakota	ND				
	001	000	2	999	9	Adams		001	9	0000	
	002	000	2	999	9	Barnes		003	6	0000	
	003	000	2	999	9	Benson		005	9	0000	
	004	000	2	999	9	Billings		007	9	0000	
	005	000	2	999	9	Bottineau		009	9	0000	
	006	000	2	999	9	Bowman		011	9	0000	
	007	000	2	999	9	Burke		013	9	0000	
	008	033	1			Burleigh		015	4	1010	
				001	4	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	9	0000	
	011	000	2	999	9	Dickey		021	9	0000	
	012	000	2	999	9	Divide		023	9	0000	
	013	000	2	999	9	Dunn		025	9	0000	
	014	000	2	999	9	Eddy		027	9	0000	
	015	000	2	999	9	Emmons		029	9	0000	
	016	000	2	999	9	Foster		031	9	0000	
	017	000	2	999	9	Golden Valley		033	9	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	9	0000	
	020	000	2	999	9	Griggs		039	9	0000	
	021	000	2	999	9	Hettinger		041	9	0000	
	022	000	2	999	9	Kidder		043	9	0000	
	023	000	2	999	9	LaMoure		045	9	0000	
	024	000	2	999	9	Logan		047	9	0000	
	025	000	2	999	9	McHenry		049	9	0000	
	026	000	2	999	9	McIntosh		051	9	0000	
	027	000	2	999	9	McKenzie		053	9	0000	
	028	000	2	999	9	McLean		055	9	0000	
	029	000	2	999	9	Mercer		057	9	0000	
	030	033	1			Morton		059	5	1010	
				006	6	Mandan					49900
				999	9	Balance of county					99999
	031	000	2	999	9	Mountrail		061	9	0000	
	032	000	2	999	9	Nelson		063	9	0000	
	033	000	2	999	9	Oliver		065	9	0000	
	034	000	2	999	9	Pembina		067	9	0000	
	035	000	2	999	9	Pierce		069	9	0000	
	036	000	2	999	9	Ramsey		071	6	0000	
	037	000	2	999	9	Ransom		073	9	0000	
	038	000	2	999	9	Renville		075	9	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	9	0000	
	042	000	2	999	9	Sheridan		083	9	0000	
	043	000	2	999	9	Sioux		085	9	0000	
	044	000	2	999	9	Slope		087	9	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	9	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	9	0000	
	049	000	2	999	9	Traill		097	9	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	9	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
OH					Ohio	OH				
	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	4	0000	
				004 6	Ashland					02568
				999 9	Balance of county					99999
	004	059	1		Ashtabula		007	3	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, part					25970
				063 4	Hamilton					33012
				088 4	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		Clermont		025	3	1640	
				189 6	Loveland, part					45108
				999 9	Balance of county					99999
	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 2	Cleveland					16000
				033 5	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 5	North Royalton					57008
				104 4	Parma					61000
				105 6	Parma Heights					61028
				179 6	Richmond Heights					66894

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
OH						Ohio	
	018					Cuyahoga, con.	OH 035 0 1680
				112	6	Rocky River	68056
				115	6	Seven Hills	71416
				116	5	Shaker Heights	71682
				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	OH 037 4 0000
				061	6	Greenville	32340
				999	9	Balance of county	99999
	020	000	2			Defiance	OH 039 5 0000
				039	6	Defiance	21308
				999	9	Balance of county	99999
	021	064	1			Delaware	OH 041 3 1840
				186	1	Columbus, part	18000
				040	5	Delaware	21434
				042	5	Dublin, part	22694
				143	5	Westerville, part	83342
				999	9	Balance of county	99999
	022	000	2			Erie	OH 043 4 0000
				114	5	Sandusky	70380
				137	6	Vermilion, part	79716
				999	9	Balance of county	99999
	023	064	1			Fairfield	OH 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	OH 047 5 0000
				141	6	Washington	81214
				999	9	Balance of county	99999
	025	064	1			Franklin	OH 049 0 1840
				016	6	Bexley	06278
				034	1	Columbus, part	18000
				042	5	Dublin, part	22694
				057	5	Gahanna	29106
				062	5	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	OH 051 5 8400
	027	000	2			Gallia	OH 053 5 0000
	028	059	1			Geauga	OH 055 4 1680
	029	070	1			Greene	OH 057 3 2000
				011	5	Beavercreek	04720
				049	5	Fairborn	25914
				188	4	Kettering, part	40040
				152	6	Xenia	86772
				999	9	Balance of county	99999
	030	000	2			Guernsey	OH 059 5 0000
				025	6	Cambridge	10996
				999	9	Balance of county	99999
	031	057	1			Hamilton	OH 061 1 1640
				017	6	Blue Ash	07300
				030	2	Cincinnati	15000
				187	5	Fairfield, part	25970
				053	6	Forest Park	27706
				074	6	Loveland, part	45108
				177	6	Montgomery	51716
				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	OH 063 4 0000
				052	5	Findlay	27048



Vital Statistics Codes			FIPS Codes							
St	Cnty	P/MSA M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
OH					Ohio	OH				
	032				Hancock, con.	063	4	0000		
			054	6	Fostoria, part					28014
			999	9	Balance of county					99999
	033	000	2	999	9 Hardin	065	5	0000		
	034	000	2	999	9 Harrison	067	6	0000		
	035	000	2	999	9 Henry	069	5	0000		
	036	000	2	999	9 Highland	071	5	0000		
	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	4	0000		
			089	6	Mount Vernon					53102
			999	9	Balance of county					99999
	043	059	1		Lake	085	3	1680		
			044	6	Eastlake					23618
			085	4	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
			178	6	Pataskala village					61112
			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
			171	6	Avon					03352
			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
			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	5	Medina					48790
			138	6	Wadsworth					80304
			999	9	Balance of county					99999
	053	000	2	999	9 Meigs	105	6	0000		
	054	000	2		Mercer	107	5	0000		
			172	6	Celina					12868
			999	9	Balance of county					99999
	055	070	1		Miami	109	4	2000		
			065	5	Huber Heights, part					36610
			107	6	Piqua					62848

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	Place
OH						Ohio	
	055					Miami, con.	
				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
				173	6	Clayton village	15644
				038	3	Dayton	21000
				047	6	Englewood	25396
				065	5	Huber Heights, part	36610
				068	4	Kettering, part	40040
				086	6	Miamisburg	49434
				180	6	Riverside village	67468
				185	6	Springboro, part	74076
				183	5	Trotwood	77504
				135	6	Vandalia	79492
				142	6	West Carrollton City	83111
				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 4 1840
				031	6	Circleville	15070
				999	9	Balance of county	99999
	066	000	2	999	9	Pike	131 5 0000
	067	002	1			Portage	133 3 0080
				170	6	Aurora	03086
				067	5	Kent	39872
				109	6	Ravenna	65592
				182	6	Streetsboro	75014
				191	6	Tallmadge, part	76106
				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	5	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
				174	6	Green	31860
				175	6	Hudson	36651
				098	6	Norton, part	57260
				124	5	Stow	74944
				128	6	Tallmadge, part	76106

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
OH							Ohio	OH				
	077						Summit, con.	153	1		0080	
				184	6		Twinsburg					78050
				999	9		Balance of county					99999
	078	309	1				Trumbull	155	3		9320	
				060	6		Girard					30198
				092	6		Niles					55916
				139	5		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	5		Dublin, part					22694
				176	6		Marysville					48160
				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				Vinton	163	6		0000	
	083	057	1				Warren	165	3		1640	
				055	6		Franklin					28476
				071	6		Lebanon					42364
				190	6		Loveland, part					45108
				080	6		Mason					48188
				088	4		Middletown, part					49840
				181	6		Springboro, part					74076
				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
OK						Oklahoma	OK				
	001	000	2	999	9	Adair		001	6	0000	
	002	000	2	999	9	Alfalfa		003	9	0000	
	003	000	2	999	9	Atoka		005	6	0000	
	004	000	2	999	9	Beaver		007	9	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	
						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	1	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	9	0000	
	014	204	1			Cleveland		027	3	5880	
				021	5	Moore					49200
				024	4	Norman					52500
				025	1	Oklahoma City, part					55000
				999	9	Balance of county					99999
	015	000	2	999	9	Coal		029	9	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	9	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	999	9	Custer		039	5	0000	
	021	000	2	999	9	Delaware		041	5	0000	
	022	000	2	999	9	Dewey		043	9	0000	
	023	000	2	999	9	Ellis		045	9	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	9	0000	
	028	000	2	999	9	Greer		055	9	0000	
	029	000	2	999	9	Harmon		057	9	0000	
	030	000	2	999	9	Harper		059	9	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	9	0000	
	035	000	2	999	9	Johnston		069	6	0000	
	036	000	2			Kay		071	5	0000	
				028	5	Ponca City, part					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	999	9	Logan		083	5	5880	
	043	000	2	999	9	Love		085	9	0000	
	044	204	1	999	9	McClain		087	5	5880	
				999	9	Oklahoma City, part					99999

Vital Statistics Codes						FIPS Codes				
St	Cnty	P/MSA	M/NM	City	P/S Area Names	St	Cnty	P/S	P/MSA	Place
OK					Oklahoma	OK				
	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	9	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 1	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
				053 5	Ponca City, part					59850
				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 1	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	9	0000	
	066	286	1		Rogers		131	4	8560	
				008 6	Claremore					14700
				052 6	Owasso, part					56650
				035 2	Tulsa, part					75000
				999 9	Balance of county					99999
	067	000	2	999 9	Seminole		133	6	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		Texas		139	6	0000	
				050 6	Guymon					31750
				999 9	Balance of county					99999
	071	000	2	999 9	Tillman		141	9	0000	
	072	286	1		Tulsa		143	1	8560	
				049 6	Bixby, part					06400
				006 4	Broken Arrow, part					09050
				027 6	Owasso, part					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	4	8560	
				051 6	Bixby, part					06400
				006 4	Broken Arrow, part					09050
				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
OK						Oklahoma	OK				
	074	000	2			Washington		147	5	0000	
				004	5	Bartlesville, part					04450
				999	9	Balance of county					99999
	075	000	2	999	9	Washita		149	6	0000	
	076	000	2	999	9	Woods		151	9	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
OR							Oregon	OR				
	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	
				043	6		Canby					10750
				011	6		Gladstone					29000
				019	5		Lake Oswego, part					40550
				023	6		Milwaukie, part					48650
				025	5		Oregon City					55200
				027	1		Portland, part					59000
				032	6		Tualatin, part					74950
				033	6		West Linn					80150
				051	6		Wilsonville, part					82800
				999	9		Balance of county					99999
	004	000	2	999	9		Clatsop	007	5		0000	
	005	220	1				Columbia	009	5		6440	
				048	6		St. Helens					64600
				999	9		Balance of county					99999
	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	3		0000	
				005	4		Bend					05800
				047	6		Redmond					61200
				999	9		Balance of county					99999
	010	000	2				Douglas	019	3		0000	
				028	6		Roseburg					63650
				999	9		Balance of county					99999
	011	000	2	999	9		Gilliam	021	9		0000	
	012	000	2	999	9		Grant	023	9		0000	
	013	000	2	999	9		Harney	025	9		0000	
	014	000	2	999	9		Hood River	027	6		0000	
	015	176	1				Jackson	029	3		4890	
				002	6		Ashland					03050
				044	6		Central Point					12400
				022	4		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	9		0000	
	020	088	1				Lane	039	2		2400	
				009	3		Eugene					23850
				030	4		Springfield					69600
				999	9		Balance of county					99999
	021	000	2	999	9		Lincoln	041	5		0000	
	022	000	2				Linn	043	3		0000	
				001	5		Albany, part					01000
				020	6		Lebanon					41650
				999	9		Balance of county					99999
	023	000	2				Malheur	045	5		0000	
				046	6		Ontario					54900
				999	9		Balance of county					99999
	024	244	1				Marion	047	2		7080	
				016	5		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	1		Portland, part					59000
				050	6		Troutdale					74850
				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
OR						Oregon	OR				
	027	244	1			Polk		053	4	7080	
				045	6	Dallas					17700
				029	3	Salem, part					64900
				999	9	Balance of county					99999
	028	000	2	999	9	Sherman		055	9	0000	
	029	000	2	999	9	Tillamook		057	6	0000	
	030	000	2			Umatilla		059	4	0000	
				014	6	Hermiston					33700
				026	6	Pendleton					57150
				999	9	Balance of county					99999
	031	000	2			Union		061	6	0000	
				018	6	La Grande					40350
				999	9	Balance of county					99999
	032	000	2	999	9	Wallowa		063	9	0000	
	033	000	2			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	4	Hillsboro					34100
				019	5	Lake Oswego, part					40550
				027	1	Portland, part					59000
				049	6	Sherwood					67100
				031	5	Tigard					73650
				032	6	Tualatin, part					74950
				052	6	Wilsonville, part					82800
				999	9	Balance of county					99999
	035	000	2	999	9	Wheeler		069	9	0000	
	036	220	1			Yamhill		071	4	6440	
				021	5	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
PA						Pennsylvania	PA				
	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
				154	6	Hampton Township					32328
				041	6	Harrison Township					32832
				065	5	McCandless Township					45900
				066	6	McKeesport					46256
				076	6	Munhall borough					52320
				077	5	Municipality of Monroeville borough					52330
				094	2	Pittsburgh					61000
				095	5	Plum borough					61536
				102	5	Ross Township					66264
				160	6	Scott Township					68388
				105	5	Shaler Township					69584
				107	6	South Park Township					72400
				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
				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	5	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
				016	4	Bristol township					08768
				150	6	Doylestown township					19792
				035	5	Falls township					25112
				059	5	Lower Makefield township					44968
				064	6	Lower Southampton township					45112
				071	5	Middletown township					49120
				157	6	Morrisville borough					51144
				084	6	Newtown township					54192
				086	5	Northampton township					54688
				130	6	Upper Southampton township					79296
				132	5	Warminster township					80952
				162	6	Warrington township					81048
				163	6	Warwick township					81144
				999	9	Balance of county					99999
	010	217	1			Butler		019	3	6280	
				017	6	Butler					10464
				149	6	Cranberry township					16920
				999	9	Balance of county					99999
	011	141	1			Cambria		021	3	3680	
				050	6	Johnstown					38288
				999	9	Balance of county					99999
	012	000	2	999	9	Cameron		023	9	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
				152	6	Easttown township					21928
				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

Vital Statistics Codes				FIPS Codes			
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St Cnty P/S P/MSA Place
PA						Pennsylvania	PA
	015					Chester, con.	029 2 6160
				164	6	Westtown township	84104
				165	6	West Whiteland township	84192
				999	9	Balance of county	99999
	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 2 3240
				040	5	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	53104
				083	6	Newtown township	54224
				099	5	Radnor Township	63264
				101	5	Ridley township	64800
				123	6	Upper Chichester township	78776
				124	4	Upper Darby township	79000
				161	6	Upper Providence township	79248
				146	6	Yeadon borough	86968
				999	9	Balance of county	99999
	024	000	2			Elk	047 5 0000
				159	6	St. Marys city	67344
				999	9	Balance of county	99999
	025	087	1			Erie	049 2 2360
				034	3	Erie	24000
				072	4	Millcreek township	49548
				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			Forest	053 9 0000
	028	000	2			Franklin	055 3 0000
				021	6	Chambersburg borough	12536
				999	9	Balance of county	99999
	029	000	2			Fulton	057 6 0000
	030	000	2			Greene	059 5 0000
	031	000	2			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			Jefferson	065 5 0000
	034	000	2			Juniata	067 6 0000
	035	259	1			Lackawanna	069 3 7560
				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
				151	6	East Hempfield township	21232
				153	6	Elizabethtown borough	23016

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place	
PA						Pennsylvania	PA					
	036					Lancaster, con.		071	2	4000		
				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	
				999	9	Balance of county					99999	
	038	121	1			Lebanon		075	3	3240		
				056	6	Lebanon					42168	
				999	9	Balance of county					99999	
	039	007	1			Lehigh		077	2	0240		
				003	3	Allentown					02000	
				011	4	Bethlehem, part					06088	
				032	6	Emmaus borough					23584	
				103	6	Salisbury township					67576	
				108	6	South Whitehall township					72632	
				140	6	Whitehall township					84528	
				999	9	Balance of county					99999	
	040	259	1			Luzerne		079	2	7560		
				044	6	Hazleton					33408	
				051	6	Kingston borough					39784	
				079	6	Nanticoke					52584	
				143	5	Wilkes-Barre					85152	
				999	9	Balance of county					99999	
	041	303	1			Lycoming		081	3	9140		
				145	5	Williamsport					85312	
				999	9	Balance of county					99999	
	042	000	2			McKean		083	5	0000		
	043	261	1			Mercer		085	3	7610		
				046	6	Hermitage					34064	
				106	6	Sharon					69720	
				999	9	Balance of county					99999	
	044	000	2			Mifflin		087	5	0000		
	045	000	2			Monroe		089	3	0000		
	046	214	1			Montgomery		091	1	6160		
				001	4	Abington township					00156	
				022	5	Cheltenham township					12968	
				042	6	Hatfield township					33120	
				047	6	Horsham township					35808	
				054	6	Lansdale borough					41432	
				155	6	Lower Gwynedd township					44920	
				060	4	Lower Merion township					44976	
				061	6	Lower Moreland township					45008	
				156	6	Lower Pottsgrove township					45072	
				063	6	Lower Providence township					45080	
				073	6	Montgomery township					50640	
				085	5	Norristown borough					54656	
				096	6	Plymouth township					61664	
				097	6	Pottstown borough					62416	
				111	6	Springfield township					73088	
				119	6	Towamencin township					77152	
				125	5	Upper Dublin township					79008	
				126	6	Upper Gwynedd township					79056	
				127	5	Upper Merion township					79136	
				128	6	Upper Moreland township					79176	
				141	6	Whitemarsh township					84624	
				142	6	Whitpain township					84888	
				999	9	Balance of county					99999	
	047	000	2			Montour		093	6	0000		
	048	007	1			Northampton		095	2	0240		
				011	4	Bethlehem, part					06088	
				012	6	Bethlehem township					06096	
				030	5	Easton					21648	
				090	6	Palmer township					57672	
				999	9	Balance of county					99999	
	049	000	2			Northumberland		097	4	0000		
				115	6	Sunbury					75304	
				999	9	Balance of county					99999	
	050	121	1			Perry		099	5	3240		
	051	214	1		092	0	Philadelphia, coext. with Phila. city		101	0	6160	60000
	052	199	1		999	9	Pike		103	5	5660	
	053	000	2		999	9	Potter		105	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
PA						Pennsylvania	PA				
054	000		2			Schuylkill	107	3		0000	
				098	6	Pottsville					62432
				999	9	Balance of county					99999
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	9		0000	
058	000		2	999	9	Susquehanna	115	5		0000	
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 Murrys ville 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
				158	6	Penn township					58888
				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
RI						Rhode Island	RI				
	001	221	1			Bristol		001	4	6483	
				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
				021	5	West Warwick town					78440
				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	5	East Providence					22960
				008	5	Johnston town					37720
				018	6	Lincoln town					41500
				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
				019	5	North Kingstown town					51580
				020	5	South Kingstown town					67460
				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
SC						South Carolina	SC				
	001	000	2	999	9	Abbeville		001	5	0000	
	002	018	1			Aiken		003	3	0600	
				001	5	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	3	0000	
				039	6	Beaufort					04690
				016	5	Hilton Head Island					34045
				999	9	Balance of county					99999
	008	049	1			Berkeley		015	3	1440	
				043	4	Charleston, part					13330
				011	5	Goose Creek, part					29815
				015	6	Hanahan					32065
				028	5	Summerville, part					70270
				999	9	North Charleston, part					99999
				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, part					13330
				045	5	Goose Creek, part					29815
				019	5	Mount Pleasant					48535
				023	4	North Charleston, part					50875
				028	5	Summerville, part					70270
				999	9	Balance of county					99999
	011	118	1			Cherokee		021	4	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	5	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	4	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	
				040	6	Conway					16405
				020	6	Myrtle Beach					49075
				042	6	North Myrtle Beach					51280
				999	9	Balance of county					99999
	027	000	2	999	9	Jasper		053	6	0000	
	028	000	2	999	9	Kershaw		055	4	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

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
SC							South Carolina	SC				
	032						Lexington, con.	063	3		1760	
				044	3		Columbia, part					16000
				017	6		Irmo, part					35890
				030	6		West Columbia					75850
				999	9		Balance of county					99999
	033	000	2	999	9		McCormick	065	9		0000	
	034	000	2	999	9		Marion	067	5		0000	
	035	000	2	999	9		Marlboro	069	5		0000	
	036	000	2				Newberry	071	5		0000	
				021	6		Newberry					49570
				999	9		Balance of county					99999
	037	000	2	999	9		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	3		3160	
				006	6		Clemson, part					14950
				008	6		Easley					21985
				999	9		Balance of county					99999
	040	062	1				Richland	079	2		1760	
				007	3		Columbia, part					16000
				041	6		Forest Acres					26305
				017	6		Irmo, part					35890
				999	9		Balance of county					99999
	041	000	2	999	9		Saluda	081	6		0000	
	042	118	1				Spartanburg	083	2		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	999	9		Union	087	5		0000	
	045	000	2	999	9		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
SD						South Dakota	SD				
	001	000	2	999	9	Aurora		003	9	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	9	0000	
	004	000	2	999	9	Bon Homme		009	9	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	9	0000	
	008	000	2	999	9	Buffalo		017	9	0000	
	009	000	2	999	9	Butte		019	9	0000	
	010	000	2	999	9	Campbell		021	9	0000	
	011	000	2	999	9	Charles Mix		023	9	0000	
	012	000	2	999	9	Clark		025	9	0000	
	013	000	2	999	9	Clay		027	6	0000	
	014	000	2			Codington		029	5	0000	
				009	6	Watertown					69300
				999	9	Balance of county					99999
	015	000	2	999	9	Corson		031	9	0000	
	016	000	2	999	9	Custer		033	9	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	9	0000	
	019	000	2	999	9	Deuel		039	9	0000	
	020	000	2	999	9	Dewey		041	9	0000	
	021	000	2	999	9	Douglas		043	9	0000	
	022	000	2	999	9	Edmunds		045	9	0000	
	023	000	2	999	9	Fall River		047	9	0000	
	024	000	2	999	9	Faulk		049	9	0000	
	025	000	2	999	9	Grant		051	9	0000	
	026	000	2	999	9	Gregory		053	9	0000	
	027	000	2	999	9	Haakon		055	9	0000	
	028	000	2	999	9	Hamlin		057	9	0000	
	029	000	2	999	9	Hand		059	9	0000	
	030	000	2	999	9	Hanson		061	9	0000	
	031	000	2	999	9	Harding		063	9	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	9	0000	
	034	000	2	999	9	Hyde		069	9	0000	
	035	000	2	999	9	Jackson		071	9	0000	
	036	000	2	999	9	Jerauld		073	9	0000	
	037	000	2	999	9	Jones		075	9	0000	
	038	000	2	999	9	Kingsbury		077	9	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	9	0000	
	043	000	2	999	9	McCook		087	9	0000	
	044	000	2	999	9	McPherson		089	9	0000	
	045	000	2	999	9	Marshall		091	9	0000	
	046	000	2	999	9	Meade		093	6	0000	
	047	000	2	999	9	Mellette		095	9	0000	
	048	000	2	999	9	Miner		097	9	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	9	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	9	0000	
	053	000	2	999	9	Potter		107	9	0000	
	054	000	2	999	9	Roberts		109	6	0000	
	055	000	2	999	9	Sanborn		111	9	0000	
	056	000	2	999	9	Shannon		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
SD						South Dakota	SD				
057	000	2	999	9		Spink	115	9	0000		
058	000	2	999	9		Stanley	117	9	0000		
059	000	2	999	9		Sully	119	9	0000		
060	000	2	999	9		Todd	121	9	0000		
061	000	2	999	9		Tripp	123	9	0000		
062	000	2	999	9		Turner	125	9	0000		
063	000	2	999	9		Union	127	6	0000		
064	000	2	999	9		Walworth	129	9	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	9	0000		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
TN						Tennessee	TN				
	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	3	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	4	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	9	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	1	Nashville-Davidson					52006
				999	9	Balance of county					99999
	020	000	2			Decatur		039	6	0000	
	021	000	2			DeKalb		041	6	0000	
	022	192	1			Dickson		043	5	5360	
				049	6	Dickson					20620
				999	9	Balance of county					99999
	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, part					50280
				999	9	Balance of county					99999
	033	053	1			Hamilton		065	2	1560	
				006	3	Chattanooga, part					14000
				013	6	East Ridge					22720
				036	6	Red Bank					61960
				055	6	Soddy-Daisy					69560
				999	9	Balance of county					99999
	034	000	2			Hancock		067	9	0000	
	035	000	2			Hardeman		069	5	0000	
	036	000	2			Hardin		071	5	0000	
	037	140	1			Hawkins		073	4	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	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
TN						Tennessee	TN				
040	000	2	999	9		Henry	079	5	0000		
041	000	2	999	9		Hickman	081	6	0000		
042	000	2	999	9		Houston	083	9	0000		
043	000	2	999	9		Humphreys	085	6	0000		
044	000	2	999	9		Jackson	087	6	0000		
045	000	2				Jefferson	089	5	0000		
				056	6	Morristown, part					50280
				999	9	Balance of county					99999
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	9	0000		
049	000	2	999	9		Lauderdale	097	5	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	4	Jackson					37640
				999	9	Balance of county					99999
058	053	1				Marion	115	5	1560		
				057	3	Chattanooga, part					14000
				999	9	Balance of county					99999
059	000	2				Marshall	117	5	0000		
				051	6	Lewisburg					41860
				999	9	Balance of county					99999
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	3	Clarksville					15160
				999	9	Balance of county					99999
064	000	2	999	9		Moore	127	9	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	9	0000		
069	000	2	999	9		Pickett	137	9	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	5	0000		
073	000	2				Roane	145	4	0000		
				035	5	Oak Ridge, part					55120
				999	9	Balance of county					99999
074	192	1				Robertson	147	4	5360		
				039	6	Springfield					70500
				999	9	Balance of county					99999
075	192	1				Rutherford	149	3	5360		
				050	6	La Vergne					41200
				033	4	Murfreesboro					51560
				038	5	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				Sevier	155	4	3840		
				054	6	Sevierville					67120
				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
TN					Tennessee	TN				
079	178	1			Shelby	157	1		4920	
				002	5 Bartlett					03440
				009	5 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	4 Johnson City, part					38320
				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	4	4920		
085	000	2	999	9	Trousdale	169	9	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	9	0000		
089	000	2			Warren	177	5	0000		
				028	6 McMinnville					45100
				999	9 Balance of county					99999
090	140	1			Washington	179	3	3660		
				023	4 Johnson City, part					38320
				999	9 Balance of county					99999
091	000	2	999	9	Wayne	181	6	0000		
092	000	2			Weakley	183	5	0000		
				052	6 Martin					46240
				999	9 Balance of county					99999
093	000	2	999	9	White	185	6	0000		
094	192	1			Williamson	187	3	5360		
				003	6 Brentwood					08280
				016	5 Franklin					27740
				999	9 Balance of county					99999
095	192	1			Wilson	189	4	5360		
				027	6 Lebanon					41520
				053	6 Mount Juliet					50780
				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
TX						Texas	TX				
	001	000	2			Anderson		001	4	0000	
				116	6	Palestine					54708
				999	9	Balance of county					99999
	002	000	2	999	9	Andrews		003	6	0000	
	003	000	2			Angelina		005	4	0000	
				098	5	Lufkin					45072
				999	9	Balance of county					99999
	004	000	2	999	9	Aransas		007	6	0000	
	005	302	1	999	9	Archer		009	9	9080	
				999	9	Wichita Falls, part					99999
	006	000	2	999	9	Armstrong		011	9	0000	
	007	000	2	999	9	Atascosa		013	5	0000	
	008	000	2	999	9	Austin		015	6	0000	
	009	000	2	999	9	Bailey		017	9	0000	
	010	000	2	999	9	Bandera		019	6	0000	
	011	019	1	999	9	Bastrop		021	4	0640	
	012	000	2	999	9	Baylor		023	9	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
				249	5	Copperas Cove, part					16624
				071	6	Harker Heights					32312
				084	4	Killeen					39148
				152	4	Temple					72176
				999	9	Balance of county					99999
	015	248	1			Bexar		029	0	7240	
				224	6	Converse					16468
				137	0	San Antonio, part					65000
				141	6	Schertz, part					66128
				158	6	Universal City					74408
				999	9	Balance of county					99999
	016	000	2	999	9	Blanco		031	9	0000	
	017	000	2	999	9	Borden		033	9	0000	
	018	000	2	999	9	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
				223	6	Clute					15652
				058	6	Freeport					27420
				086	5	Lake Jackson					40588
				120	5	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	999	9	Brewster		043	9	0000	
	023	000	2	999	9	Briscoe		045	9	0000	
	024	000	2	999	9	Brooks		047	9	0000	
	025	000	2			Brown		049	5	0000	
				024	6	Brownwood					10780
				999	9	Balance of county					99999
	026	000	2	999	9	Burleson		051	6	0000	
	027	000	2	999	9	Burnet		053	5	0000	
	028	019	1			Caldwell		055	5	0640	
				232	6	Lockhart					43240
				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	999	9	Callahan		059	6	0000	
	031	041	1			Cameron		061	2	1240	
				023	3	Brownsville					10768
				072	4	Harlingen					32372
				138	6	San Benito					65036
				999	9	Balance of county					99999
	032	000	2	999	9	Camp		063	6	0000	
	033	000	2	999	9	Carson		065	9	0000	

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
TX						Texas	TX				
	034	000	2	999	9	Cass		067	5	0000	
	035	000	2	999	9	Castro		069	9	0000	
	036	127	1			Chambers		071	5	3360	
				013	4	Baytown, part					06128
				255	5	Texas City, part					72392
				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	9	0000	
	039	000	2	999	9	Clay		077	6	0000	
	040	000	2	999	9	Cochran		079	9	0000	
	041	000	2	999	9	Coke		081	9	0000	
	042	000	2	999	9	Coleman		083	9	0000	
	043	067	1			Collin		085	2	1920	
				003	5	Allen					01924
				029	3	Carrollton, part					13024
				039	0	Dallas, part					19000
				227	5	Frisco, part					27684
				063	3	Garland, part					29000
				100	4	McKinney					45744
				124	3	Plano, part					58016
				129	4	Richardson, part					61796
				239	6	Wylie, part					80356
				999	9	Balance of county					99999
	044	000	2	999	9	Collingsworth		087	9	0000	
	045	000	2	999	9	Colorado		089	6	0000	
	046	248	1			Comal		091	4	7240	
				112	5	New Braunfels, part					50820
				254	0	San Antonio, part					65000
				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	9	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	5	Copperas Cove, part					16624
				064	6	Gatesville					29168
				999	9	Balance of county					99999
	051	000	2	999	9	Cottle		101	9	0000	
	052	000	2	999	9	Crane		103	9	0000	
	053	000	2	999	9	Crockett		105	9	0000	
	054	000	2	999	9	Crosby		107	9	0000	
	055	000	2	999	9	Culberson		109	9	0000	
	056	000	2	999	9	Dallam		111	9	0000	
	057	067	1			Dallas		113	0	1920	
				220	6	Addison					01240
				011	6	Balch Springs					05372
				029	3	Carrollton, part					13024
				030	5	Cedar Hill, part					13492
				035	5	Coppell, part					16612
				039	0	Dallas, part					19000
				044	5	DeSoto					20092
				047	5	Duncanville					21628
				054	5	Farmers Branch					25452
				063	3	Garland, part					29000
				066	3	Grand Prairie, part					30464
				067	5	Grapevine, part					30644
				079	3	Irving					37000
				089	5	Lancaster					41212
				094	4	Lewisville, part					42508
				104	3	Mesquite, part					47892
				129	4	Richardson, part					61796
				135	5	Rowlett, part					63572
				236	6	Seagoville, part					66428
				159	6	University Park					74492
				247	6	Wylie, part					80356
				999	9	Balance of county					99999
	058	000	2	999	9	Dawson		115	6	0000	
	059	000	2			Deaf Smith		117	6	0000	
				074	6	Hereford					33320
				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
TX					Texas	TX				
060	000	2	999	9	Delta	119	9	0000		
061	067	1			Denton	121	2	1920		
			029	3	Carrollton, part					13024
			035	5	Coppell, part					16612
			225	6	Corinth					16696
			039	0	Dallas, part					19000
			043	4	Denton					19972
			055	4	Flower Mound, part					26232
			057	1	Fort Worth, part					27000
			241	5	Frisco, part					27684
			067	5	Grapevine, part					30644
			229	6	Highland Village					33848
			094	4	Lewisville, part					42508
			124	3	Plano, part					58016
			245	6	Southlake, part					69032
			156	5	The Colony					72530
			999	9	Balance of county					99999
062	000	2	999	9	DeWitt	123	6	0000		
063	000	2	999	9	Dickens	125	9	0000		
064	000	2	999	9	Dimmit	127	6	0000		
065	000	2	999	9	Donley	129	9	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	9	0000		
070	067	1			Ellis	139	3	1920		
			030	5	Cedar Hill, part					13492
			052	6	Ennis					24348
			066	3	Grand Prairie, part					30464
			101	5	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	5	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	5	0000		
075	000	2	999	9	Fayette	149	6	0000		
076	000	2	999	9	Fisher	151	9	0000		
077	000	2	999	9	Floyd	153	9	0000		
078	000	2	999	9	Foard	155	9	0000		
079	127	1			Fort Bend	157	2	3360		
			075	0	Houston, part					35000
			242	6	Katy, part					38476
			108	4	Missouri City, part					48804
			251	5	Pearland, part					56348
			130	6	Richmond					61892
			133	6	Rosenberg					63284
			238	6	Stafford, part					69908
			148	4	Sugar Land					70808
			999	9	Balance of county					99999
080	000	2	999	9	Franklin	159	9	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	2	2920		
			226	6	Dickinson					20344
			059	5	Friendswood, part					27648
			062	4	Galveston					28068
			087	6	La Marque					41116
			092	5	League City, part					41980
			155	5	Texas City, part					72392
			999	9	Balance of county					99999
085	000	2	999	9	Garza	169	9	0000		
086	000	2	999	9	Gillespie	171	6	0000		
087	000	2	999	9	Glasscock	173	9	0000		
088	000	2	999	9	Goliad	175	9	0000		
089	000	2	999	9	Gonzales	177	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
TX						Texas	TX				
090	000	2				Gray	179	6		0000	
				117	6	Pampa					54912
				999	9	Balance of county					99999
091	263	1				Grayson	181	3		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	
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	9		0000	
097	000	2		999	9	Hamilton	193	9		0000	
098	000	2		999	9	Hansford	195	9		0000	
099	000	2		999	9	Hardeman	197	9		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	5	Friendswood, part					27648
				061	6	Galena Park					27996
				075	0	Houston, part					35000
				076	6	Humble					35348
				230	6	Jacinto City					37156
				231	6	Katy, part					38476
				090	5	La Porte					41440
				092	5	League City, part					41980
				108	4	Missouri City, part					48804
				119	3	Pasadena					56000
				120	5	Pearland, part					56348
				146	6	South Houston					69020
				246	6	Stafford, part					69908
				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	9		0000	
104	000	2		999	9	Haskell	207	9		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	9		0000	
107	067	1				Henderson	213	4		1920	
				009	6	Athens					04504
				999	9	Balance of county					99999
108	175	1				Hidalgo	215	1		4880	
				221	6	Alamo					01576
				045	6	Donna					20884
				049	5	Edinburg					22660
				099	3	McAllen					45384
				103	6	Mercedes					47700
				107	5	Mission					48768
				122	5	Pharr					57200
				139	5	San Juan					65516
				168	5	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



Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
TX						Texas	TX				
	112					Hopkins, con.		223	5	0000	
				999	9	Balance of county					99999
	113	000	2	999	9	Houston		225	6	0000	
	114	000	2			Howard		227	5	0000	
				020	5	Big Spring					08236
				999	9	Balance of county					99999
	115	000	2	999	9	Hudspeth		229	9	0000	
	116	067	1			Hunt		231	4	1920	
				068	6	Greenville					30920
				999	9	Balance of county					99999
	117	000	2			Hutchinson		233	6	0000	
				021	6	Borger					09556
				999	9	Balance of county					99999
	118	000	2	999	9	Irion		235	9	0000	
	119	000	2	999	9	Jack		237	9	0000	
	120	000	2	999	9	Jackson		239	6	0000	
	121	000	2	999	9	Jasper		241	5	0000	
	122	000	2	999	9	Jeff Davis		243	9	0000	
	123	025	1			Jefferson		245	2	0840	
				014	3	Beaumont					07000
				069	6	Groves					31328
				111	6	Nederland					50580
				125	4	Port Arthur, part					58820
				128	6	Port Neches					58940
				999	9	Balance of county					99999
	124	000	2	999	9	Jim Hogg		247	9	0000	
	125	000	2			Jim Wells		249	5	0000	
				002	6	Alice					01852
				999	9	Balance of county					99999
	126	103	1			Johnson		251	3	2800	
				027	6	Burleson, part					11428
				031	5	Cleburne					15364
				101	5	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
				250	3	Mesquite, part					47892
				244	6	Seagoville, part					66428
				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	9	0000	
	132	000	2	999	9	Kent		263	9	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	9	0000	
	135	000	2	999	9	King		269	9	0000	
	136	000	2	999	9	Kinney		271	9	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	9	0000	
	139	000	2			Lamar		277	5	0000	
				118	5	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	5	Copperas Cove, part					16624
				999	9	Balance of county					99999
	142	000	2	999	9	La Salle		283	9	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	9	0000	
	149	000	2	999	9	Live Oak		297	6	0000	
	150	000	2	999	9	Llano		299	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
TX						Texas	TX				
151	000	2	999	9		Loving	301	9	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	9	0000		
154	000	2	999	9		McCulloch	307	9	0000		
155	295	1				McLennan	309	3	8800		
				228	6	Hewitt					33428
				164	3	Waco					76000
				999	9	Balance of county					99999
156	000	2	999	9		McMullen	311	9	0000		
157	000	2	999	9		Madison	313	6	0000		
158	000	2	999	9		Marion	315	6	0000		
159	000	2				Martin	317	9	0000		
				105	4	Midland, part					48072
				999	9	Balance of county					99999
160	000	2	999	9		Mason	319	9	0000		
161	000	2				Matagorda	321	5	0000		
				012	6	Bay City					05984
				999	9	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	9	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	9	0000		
168	000	2	999	9		Mitchell	335	9	0000		
169	000	2	999	9		Montague	337	6	0000		
170	127	1				Montgomery	339	2	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	9	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	9	0000		
180	000	2	999	9		Oldham	359	9	0000		
181	025	1				Orange	361	4	0840		
				115	6	Orange					54132
				253	4	Port Arthur, part					58820
				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		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
TX						Texas	TX				
	187	000	2	999	9	Polk		373	5	0000	
	188	009	1			Potter		375	3	0320	
				005	3	Amarillo, part					03000
				999	9	Balance of county					99999
	189	000	2	999	9	Presidio		377	9	0000	
	190	000	2	999	9	Rains		379	9	0000	
	191	009	1			Randall		381	3	0320	
				005	3	Amarillo, part					03000
				028	6	Canyon					12532
				999	9	Balance of county					99999
	192	000	2	999	9	Reagan		383	9	0000	
	193	000	2	999	9	Real		385	9	0000	
	194	000	2	999	9	Red River		387	6	0000	
	195	000	2	999	9	Reeves		389	6	0000	
	196	000	2	999	9	Refugio		391	9	0000	
	197	000	2	999	9	Roberts		393	9	0000	
	198	000	2	999	9	Robertson		395	6	0000	
	199	067	1			Rockwall		397	5	1920	
				039	0	Dallas, part					19000
				063	3	Garland, part					29000
				132	6	Rockwall					62828
				135	5	Rowlett, part					63572
				248	6	Wylie, part					80356
				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	9	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	9	0000	
	207	000	2	999	9	Schleicher		413	9	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	9	0000	
	210	000	2	999	9	Shelby		419	5	0000	
	211	000	2	999	9	Sherman		421	9	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	9	0000	
	214	000	2			Starr		427	4	0000	
				234	6	Rio Grande City					62168
				999	9	Balance of county					99999
	215	000	2	999	9	Stephens		429	9	0000	
	216	000	2	999	9	Sterling		431	9	0000	
	217	000	2	999	9	Stonewall		433	9	0000	
	218	000	2	999	9	Sutton		435	9	0000	
	219	000	2	999	9	Swisher		437	9	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	4	Flower Mound, part					26232
				056	6	Forest Hill					26544
				057	1	Fort Worth, part					27000
				066	3	Grand Prairie, part					30464
				067	5	Grapevine, part					30644
				070	5	Haltom City					31928
				078	5	Hurst					35576
				081	5	Keller					38632
				101	5	Mansfield, part					46452
				113	4	North Richland Hills					52356
				235	6	Saginaw					64112

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
TX				Texas				TX				
	220						Tarrant, con.	439	0		2800	
				237	6		Southlake, part					69032
				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	9		0000	
	223	000	2	999	9		Terry	445	6		0000	
	224	000	2	999	9		Throckmorton	447	9		0000	
	225	000	2				Titus	449	5		0000	
				109	6		Mount Pleasant					49800
				999	9		Balance of county					99999
	226	247	1				Tom Green	451	3		7200	
				136	4		San Angelo					64472
				999	9		Balance of county					99999
	227	019	1				Travis	453	1		0640	
				010	1		Austin, part					05000
				240	5		Cedar Park, part					13552
				233	6		Pflugerville, part					57176
				134	4		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	
	230	167	1	999	9		Upshur	459	5		4420	
	231	000	2	999	9		Upton	461	9		0000	
	232	000	2				Uvalde	463	5		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				Waller	473	5		3360	
				243	6		Katy, part					38476
				999	9		Balance of county					99999
	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	9		0000	
	243	302	1				Wichita	485	3		9080	
				026	6		Burkburnett					11368
				171	3		Wichita Falls					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	1		Austin, part					05000
				222	5		Cedar Park, part					13552
				065	5		Georgetown					29336
				252	6		Pflugerville, part					57176
				134	4		Round Rock, part					63500
				151	6		Taylor					71948
				999	9		Balance of county					99999
	247	248	1	999	9		Wilson	493	5		7240	
	248	000	2	999	9		Winkler	495	9		0000	
	249	000	2	999	9		Wise	497	5		0000	
	250	000	2	999	9		Wood	499	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
TX						Texas		TX				
	251	000	2	999	9	Yoakum			501	9	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
UT							Utah	UT				
	001	000	2	999	9		Beaver		001	9	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	9	0000	
	006	246	1				Davis		011	3	7160	
				002	5		Bountiful					07690
				005	6		Centerville					11980
				006	5		Clearfield					13850
				030	6		Clinton					14290
				032	6		Farmington					24740
				007	6		Kaysville					40360
				008	4		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	9	0000	
	010	000	2	999	9		Grand		019	9	0000	
	011	000	2				Iron		021	5	0000	
				004	6		Cedar City					11320
				999	9		Balance of county					99999
	012	000	2	999	9		Juab		023	9	0000	
	013	000	2	999	9		Kane		025	9	0000	
	014	000	2	999	9		Millard		027	6	0000	
	015	000	2	999	9		Morgan		029	9	0000	
	016	000	2	999	9		Piute		031	9	0000	
	017	000	2	999	9		Rich		033	9	0000	
	018	246	1				Salt Lake		035	1	7160	
				031	5		Draper, part					20120
				033	6		Holladay					36070
				010	5		Midvale					49710
				011	5		Murray					53230
				017	5		Riverton					64340
				020	3		Salt Lake City					67000
				021	4		Sandy					67440
				022	5		South Jordan					70850
				024	6		South Salt Lake					71070
				036	4		Taylorsville					75360
				028	4		West Jordan					82950
				029	3		West Valley City					83470
				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	5	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	5	0000	
	025	222	1				Utah		049	2	6520	
				001	6		American Fork					01310
				037	5		Draper, part					20120
				034	6		Lehi					44320
				014	4		Orem					57300
				035	6		Payson					58730
				015	6		Pleasant Grove					60930
				016	3		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	4	0000	
				019	5		St. George					65330
				999	9		Balance of county					99999
	028	000	2	999	9		Wayne		055	9	0000	
	029	246	1				Weber		057	3	7160	
				012	6		North Ogden					55100
				013	4		Ogden					55980
				018	5		Roy					65110
				023	6		South Ogden					70960

Vital Statistics Codes				FIPS Codes								
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
UT							Utah	UT				
	029						Weber, con.		057	3	7160	
				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
VT					Vermont	VT				
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	Burlington					10675
				003	South Burlington					66175
				999	Balance of county					99999
005	000	2	999	9	Essex	009	9	0000		
006	044	1	999	9	Franklin	011	5	1303		
007	044	1	999	9	Grand Isle	013	9	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	5	0000		
011	000	2			Rutland	021	4	0000		
				002	Rutland					61225
				999	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
VA						Virginia	VA				
	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	9	0000	
	011	171	1	999	9	Bedford		019	4	4640	
	012	171	1	999	9	Bedford city		515	9	4640	99999
	013	000	2	999	9	Bland		021	9	0000	
	014	234	1	999	9	Botetourt		023	5	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	9	0000	99999
	020	171	1	999	9	Campbell		031	4	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	9	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	2	6760	
	028	296	1	999	9	Clarke		043	6	8840	
	030	232	1	008	6	Colonial Heights city		570	6	6760	18448
	031	000	2	999	9	Covington city		580	9	0000	99999
	032	000	2	999	9	Craig		045	9	0000	
	033	296	1	999	9	Culpeper		047	5	8840	
	034	000	2	999	9	Cumberland		049	9	0000	
	035	068	1	009	5	Danville city		590	5	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	9	0000	99999
	039	000	2	999	9	Essex		057	9	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	037	6	Falls Church city		610	6	8840	27200
	042	296	1	037	6	Falls Church city		610	6	8840	27200
	043	296	1	999	9	Fauquier		061	4	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	9	0000	99999
	048	000	2	999	9	Frederick		069	4	0000	
	049	296	1	011	6	Fredericksburg city		630	6	8840	29744
	050	000	2	999	9	Galax city		640	9	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	2	6760	
	062	000	2	999	9	Henry		089	4	0000	
	063	000	2	999	9	Highland		091	9	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	9	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
VA						Virginia	VA				
071	000	2	999	9		Lee	105	6	0000		
072	000	2	999	9		Lexington city	678	9	0000	99999	
073	296	1				Loudoun	107	3	8840		
				017	5	Leesburg					44984
				999	9	Balance of county					99999
074	000	2	999	9		Louisa	109	5	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	038	6		Manassas Park city	685	6	8840	48968	
079	296	1	038	6		Manassas Park city	685	6	8840	48968	
080	000	2	020	6		Martinsville city	690	6	0000	49784	
081	200	1	999	9		Mathews	115	9	5720		
082	000	2	999	9		Mecklenburg	117	5	0000		
083	000	2	999	9		Middlesex	119	9	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	3		Norfolk city	710	3	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	9	0000	99999	
092	000	2	999	9		Nottoway	135	6	0000		
093	000	2	999	9		Orange	137	5	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	2	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	9	0000		
107	000	2	999	9		Richmond	159	9	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	9	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	4	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	4	5720		

Vital Statistics Codes					FIPS Codes						
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
WA						Washington	WA				
	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	4	Kennewick					35275
				033	5	Richland					58235
				999	9	Balance of county					99999
	004	000	2			Chelan		007	4	0000	
				041	5	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	2	6440	
				047	6	Camas					09480
				039	3	Vancouver					74060
				999	9	Balance of county					99999
	007	000	2	999	9	Columbia		013	9	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	9	0000	
	011	231	1			Franklin		021	5	6740	
				027	5	Pasco					53545
				999	9	Balance of county					99999
	012	000	2	999	9	Garfield		023	9	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	5	0000	
	017	260	1			King		033	0	7600	
				003	5	Auburn, part					03180
				004	3	Belleveue					05210
				006	5	Bothell, part					07380
				046	5	Burien					08850
				048	6	Covington					15290
				009	5	Des Moines					17635
				049	6	Enumclaw, part					22045
				050	4	Federal Way					23515
				051	6	Issaquah					33805
				052	6	Kenmore					35170
				015	4	Kent					35415
				016	5	Kirkland					35940
				053	6	Lake Forest Park					37270
				055	6	Maple Valley					43150
				021	6	Mercer Island					45005
				031	5	Redmond					57535
				032	4	Renton					57745
				059	5	Sammamish					61115
				060	5	Sea-Tac					62288
				034	1	Seattle					63000
				061	4	Shoreline					63960
				038	6	Tukwila					72625
				999	9	Balance of county					99999
	018	040	1			Kitsap		035	3	1150	
				045	6	Bainbridge Island					03736
				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	

Vital Statistics Codes					FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
WA							Washington	WA				
	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	
				065	5		Auburn, part					03180
				064	6		Enumclaw, part					22045
				054	4		Lakewood					38038
				030	5		Puyallup					56695
				037	3		Tacoma					70000
				063	5		University Place					
							73465					
				999	9		Balance of county					99999
	028	000	2	999	9		San Juan		055	6	0000	
	029	000	2				Skagit		057	3	0000	
				002	6		Anacortes					01990
				024	5		Mount Vernon					47560
				999	9		Balance of county					99999
	030	000	2	999	9		Skamania		059	9	0000	
	031	260	1				Snohomish		061	1	7600	
				044	6		Arlington					02585
				006	5		Bothell, part					07380
				010	5		Edmonds					20750
				012	4		Everett					22640
				019	5		Lynnwood					40840
				020	5		Marysville					43955
				056	6		Mill Creek					45865
				057	6		Monroe					46685
				023	6		Mountlake Terrace					47490
				058	6		Mukilteo					47735
				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	999	9		Stevens		065	5	0000	
	034	205	1				Thurston		067	3	5910	
				017	5		Lacey					36745
				026	5		Olympia					51300
				062	6		Tumwater					72905
				999	9		Balance of county					99999
	035	000	2	999	9		Wahkiakum		069	9	0000	
	036	000	2				Walla Walla		071	4	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
WV						West Virginia	WV				
	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	9	0000	
	008	000	2	999	9	Clay		015	6	0000	
	009	000	2	999	9	Doddridge		017	9	0000	
	010	000	2	999	9	Fayette		019	5	0000	
	011	000	2	999	9	Gilmer		021	9	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	
				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	5	9000	
				015	5	Wheeling, part					86452
				999	9	Balance of county					99999
	036	000	2	999	9	Pendleton		071	9	0000	
	037	000	2	999	9	Pleasants		073	9	0000	
	038	000	2	999	9	Pocahontas		075	9	0000	
	039	000	2	999	9	Preston		077	5	0000	
	040	050	1	999	9	Putnam		079	4	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	9	0000	
	048	000	2	999	9	Tyler		095	9	0000	

Vital Statistics Codes					FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area	Names	St	Cnty	P/S	P/MSA	Place
WV					West Virginia					WV		
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	9		0000	
052	000	2	999	9			Wetzel	103	6		0000	
053	000	2	999	9			Wirt	105	9		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
WI						Wisconsin	WI				
	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					01150
				003	6	Ashwaubenon village					03425
				011	6	De Pere					19775
				019	3	Green Bay					31000
				076	6	Howard village, part					35950
				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	4	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
				083	6	Stoughton					77675
				051	6	Sun Prairie					78600
				999	9	Balance of county					99999
	014	000	2			Dodge		027	4	0000	
				004	6	Beaver Dam					05900
				086	6	Hartford, part					33000
				054	6	Watertown, part					83975
				084	6	Waupun, part					84425
				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					78650
				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	9	0000	
	020	000	2			Fond du Lac		039	4	0000	
				014	5	Fond du Lac					26275
				087	6	Waupun, part					84425
				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	9	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	3	3870	
				025	4	La Crosse					40775

Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
WI						Wisconsin	WI				
	032					La Crosse, con.		063	3	3870	
				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			Lincoln		069	5	0000	
				079	6	Merrill					51250
				999	9	Balance of county					99999
	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
				085	6	Weston					86025
				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	9	0000	
	041	182	1			Milwaukee		079	1	5080	
				007	6	Brown Deer village					10375
				010	6	Cudahy					17975
				016	5	Franklin					27300
				018	6	Glendale					29400
				020	6	Greendale village					31125
				021	5	Greenfield					31175
				035	1	Milwaukee, part					53000
				040	5	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
				088	6	Howard village, part					35950
				023	6	Kaukauna					38800
				077	6	Little Chute village					44950
				999	9	Balance of county					99999
	046	182	1			Ozaukee		089	4	5080	
				008	6	Cedarburg					13375
				074	6	Grafton village					30000
				033	6	Mequon					51150
				082	6	Port Washington					64450
				999	9	Balance of county					99999
	047	000	2	999	9	Pepin		091	9	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	
				081	6	Plover village					63525
				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



Vital Statistics Codes				FIPS Codes							
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
WI						Wisconsin	WI				
057	000		2			Sauk	111	4		0000	
				073	6	Baraboo					04625
				999	9	Balance of county					99999
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	4	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	
067	182		1			Washington	131	3		5080	
				017	6	Germantown village					28875
				075	6	Hartford, part					33000
				035	1	Milwaukee, part					53000
				059	5	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
				080	6	Pewaukee					62240
				055	4	Waukesha					84250
				999	9	Balance of county					99999
069	000		2	999	9	Waupaca	135	4		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
				078	6	Menasha town					50850
				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
WY					Wyoming	WY				
	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	9	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	9	0000
	010	000	2	999	9	Johnson		019	9	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	9	0000
	015	000	2	999	9	Park		029	5	0000
	016	000	2	999	9	Platte		031	9	0000
	017	000	2			Sheridan		033	5	0000
				008	6	Sheridan				69845
				999	9	Balance of county				99999
	018	000	2	999	9	Sublette		035	9	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	9	0000
	023	000	2	999	9	Weston		045	9	0000

Vital Statistics Codes						FIPS Codes					
St	Cnty	P/MSA	M/NM	City	P/S	Area Names	St	Cnty	P/S	P/MSA	Place
PR	ZZZ	ZZZ	Z	ZZZ	Z	Puerto Rico	PR	000	Z	0000	
VI	ZZZ	ZZZ	Z	ZZZ	Z	Virgin Islands	VI	000	Z	0000	
GU	ZZZ	ZZZ	Z	ZZZ	Z	Guam	GU	000	Z	0000	
CC	ZZZ	ZZZ	Z	ZZZ	Z	Canada	CC	000	Z	0000	
AB	ZZZ	ZZZ	Z	ZZZ	Z	Alberta (Canada)	AB	000	Z	0000	
BC	ZZZ	ZZZ	Z	ZZZ	Z	British Columbia (Canada)	BC	000	Z	0000	
MB	ZZZ	ZZZ	Z	ZZZ	Z	Manitoba (Canada)	MB	000	Z	0000	
NB	ZZZ	ZZZ	Z	ZZZ	Z	New Brunswick (Canada)	NB	000	Z	0000	
NF	ZZZ	ZZZ	Z	ZZZ	Z	New Foundland (Canada)	NF	000	Z	0000	
NT	ZZZ	ZZZ	Z	ZZZ	Z	Northwest Territories (Canada)	NT	000	Z	0000	
NS	ZZZ	ZZZ	Z	ZZZ	Z	Nova Scotia (Canada)	NS	000	Z	0000	
NU	ZZZ	ZZZ	Z	ZZZ	Z	Nunavut (Canada)	NU	000	Z	0000	
ON	ZZZ	ZZZ	Z	ZZZ	Z	Ontario (Canada)	ON	000	Z	0000	
PE	ZZZ	ZZZ	Z	ZZZ	Z	Prince Edward Island (Canada)	PE	000	Z	0000	
QC	ZZZ	ZZZ	Z	ZZZ	Z	Quebec (Canada)	QC	000	Z	0000	
SK	ZZZ	ZZZ	Z	ZZZ	Z	Saskatchewan (Canada)	SK	000	Z	0000	
YT	ZZZ	ZZZ	Z	ZZZ	Z	Yukon Territory (Canada)	YT	000	Z	0000	
CU	ZZZ	ZZZ	Z	ZZZ	Z	Cuba	CU	000	Z	0000	
MX	ZZZ	ZZZ	Z	ZZZ	Z	Mexico	MX	000	Z	0000	
YY	ZZZ	ZZZ	Z	ZZZ	Z	Remainder of World	YY	000	Z	0000	
AS	ZZZ	ZZZ	Z	ZZZ	Z	American Samoa	AS	000	Z	0000	
MP	ZZZ	ZZZ	Z	ZZZ	Z	Northern Marianas	MP	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 Federal Information Processing Standards (FIPS) codes 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. Codes are effective with the 2003 data year and are based on results of the 2000 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.

Vital Statistics Geographic Code Outline For Puerto Rico,  
 Virgin Islands, Guam, American Samoa and Northern Marianas  
 Effective with 2003 Data

Vital Statistics Codes					Area Names	FIPS Codes			
St	Cnty	P/MSA	M/NM	City		St	Cnty	P/MSA	Place
AL	000	999	9	000	Alabama	AL	000	0000	00000
AK	000	999	9	000	Alaska	AK	000	0000	00000
AZ	000	999	9	000	Arizona	AZ	000	0000	00000
AR	000	999	9	000	Arkansas	AR	000	0000	00000
CA	000	999	9	000	California	CA	000	0000	00000
CO	000	999	9	000	Colorado	CO	000	0000	00000
CT	000	999	9	000	Connecticut	CT	000	0000	00000
DE	000	999	9	000	Delaware	DE	000	0000	00000
DC	000	999	9	000	District of Columbia	DC	000	0000	00000
FL	000	999	9	000	Florida	FL	000	0000	00000
GA	000	999	9	000	Georgia	GA	000	0000	00000
HI	000	999	9	000	Hawaii	HI	000	0000	00000
ID	000	999	9	000	Idaho	ID	000	0000	00000
IL	000	999	9	000	Illinois	IL	000	0000	00000
IN	000	999	9	000	Indiana	IN	000	0000	00000
IA	000	999	9	000	Iowa	IA	000	0000	00000
KS	000	999	9	000	Kansas	KS	000	0000	00000
KY	000	999	9	000	Kentucky	KY	000	0000	00000
LA	000	999	9	000	Louisiana	LA	000	0000	00000
ME	000	999	9	000	Maine	ME	000	0000	00000
MD	000	999	9	000	Maryland	MD	000	0000	00000
MA	000	999	9	000	Massachusetts	MA	000	0000	00000
MI	000	999	9	000	Michigan	MI	000	0000	00000
MN	000	999	9	000	Minnesota	MN	000	0000	00000
MS	000	999	9	000	Mississippi	MS	000	0000	00000
MO	000	999	9	000	Missouri	MO	000	0000	00000
MT	000	999	9	000	Montana	MT	000	0000	00000
NE	000	999	9	000	Nebraska	NE	000	0000	00000
NV	000	999	9	000	Nevada	NV	000	0000	00000
NH	000	999	9	000	New Hampshire	NH	000	0000	00000
NJ	000	999	9	000	New Jersey	NJ	000	0000	00000
NM	000	999	9	000	New Mexico	NM	000	0000	00000
NY	000	999	9	000	New York	NY	000	0000	00000
NC	000	999	9	000	North Carolina	NC	000	0000	00000
ND	000	999	9	000	North Dakota	ND	000	0000	00000
OH	000	999	9	000	Ohio	OH	000	0000	00000

Vital Statistics Codes					Area Names	FIPS Codes			
St	Cnty	P/MSA	M/NM	City		St	Cnty	P/MSA	Place
OK	000	999	9	000	Oklahoma	OK	000	0000	00000
OR	000	999	9	000	Oregon	OR	000	0000	00000
PA	000	999	9	000	Pennsylvania	PA	000	0000	00000
RI	000	999	9	000	Rhode Island	RI	000	0000	00000
SC	000	999	9	000	South Carolina	SC	000	0000	00000
SD	000	999	9	000	South Dakota	SD	000	0000	00000
TN	000	999	9	000	Tennessee	TN	000	0000	00000
TX	000	999	9	000	Texas	TX	000	0000	00000
UT	000	999	9	000	Utah	UT	000	0000	00000
VT	000	999	9	000	Vermont	VT	000	0000	00000
VA	000	999	9	000	Virginia	VA	000	0000	00000
WA	000	999	9	000	Washington	WA	000	0000	00000
WV	000	999	9	000	West Virginia	WV	000	0000	00000
WI	000	999	9	000	Wisconsin	WI	000	0000	00000
WY	000	999	9	000	Wyoming	WY	000	0000	00000

Vital Statistics Geographic Code Outline For Puerto Rico,  
 Virgin Islands, Guam, American Samoa and Northern Marianas  
 Effective with 2003 Data

Vital Statistics Codes				FIPS Codes					
St	Cnty	P/MSA	M/NM	City	Area Names	St	Cnty	P/MSA	Place
PR					Puerto Rico	PR			
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		



Vital Statistics Geographic Code Outline For Puerto Rico,  
Virgin Islands, Guam, American Samoa and Northern Marianas  
Effective with 2003 Data

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	Utua	141 0000
073	006	1	999	Vega Alta	143 7440
074	006	1	999	Vega Baja	145 7440

Vital Statistics Geographic Code Outline For Puerto Rico,  
 Virgin Islands, Guam, American Samoa and Northern Marianas  
 Effective with 2003 Data

Vital Statistics Codes					FIPS Codes				
St	Cnty	P/MSA	M/NM	City	Area Names	St	Cnty	P/MSA	Place
PR					Puerto Rico	PR			
	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	
VI					Virgin Islands	VI			
	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
GU					Guam	GU			
	000	000	2		Guam		010	0000	
				000	Guam				99999
CC	ZZZ	ZZZ	Z	ZZZ	Canada	CC	000	0000	00000
CU	ZZZ	ZZZ	Z	ZZZ	Cuba	CU	000	0000	00000
MX	ZZZ	ZZZ	Z	ZZZ	Mexico	MX	000	0000	00000
YY	ZZZ	ZZZ	Z	ZZZ	Remainder of World	YY	000	0000	00000
AS					American Samoa	AS			
	000	000	2		American Samoa		000	0000	
				000	American Samoa				99999
MP					Northern Marianas	MP			
	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

Primary and Metropolitan Statistical Areas Established in 1990  
 Effective with 2002 and Adapted for Use by DVS  
 United States  
 Puerto Rico

Vital Statistics Codes				FIPS Codes		
P/MSA	State	County	P/MSA Name and County Components	P/MSA	State	Cnty
001	TX	221	Abilene, TX, MSA Texas Taylor	0040	TX	441
002	OH	067 077	Akron, OH, PMSA Ohio Portage Summit	0080	OH	133 153
003	GA	047 088	Albany, GA, MSA Georgia Dougherty Lee	0120	GA	095 177
004	NY	001 027 039 042 043 044	Albany-Schenectady-Troy, NY, MSA New York Albany Montgomery Rensselaer Saratoga Schenectady Schoharie	0160	NY	001 057 083 091 093 095
005	NM	001 024 033	Albuquerque, NM, MSA New Mexico Bernalillo Sandoval Valencia	0200	NM	001 043 061
006	LA	040	Alexandria, LA, MSA Louisiana Rapides	0220	LA	079
007	PA	013 039 048	Allentown-Bethlehem-Easton, PA, MSA Pennsylvania Carbon Lehigh Northampton	0240	PA	025 077 095
008	PA	007	Altoona, PA, MSA Pennsylvania Blair	0280	PA	013
009	TX	188 191	Amarillo, TX, MSA Texas Potter Randall	0320	TX	375 381
010	AK	003	Anchorage, AK, MSA Alaska Anchorage	0380	AK	020
011	MI	046 047 081	Ann Arbor, MI, PMSA Michigan Lenawee Livingston Washtenaw	0440	MI	091 093 161

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012	AL		Anniston, AL, MSA	0450	AL	
			Alabama			
		008	Calhoun			015
013	WI		Appleton-Oshkosh-Neenah, WI, MSA	0460	WI	
			Wisconsin			
		008	Calumet			015
		045	Outagamie			087
		071	Winnebago			139
014	NC		Asheville, NC, MSA	0480	NC	
			North Carolina			
		011	Buncombe			021
		058	Madison			115
015	GA		Athens, GA, MSA	0500	GA	
			Georgia			
		029	Clarke			059
		097	Madison			195
		108	Oconee			219
016	GA		Atlanta, GA, MSA	0520	GA	
			Georgia			
		007	Barrow			013
		008	Bartow			015
		022	Carroll			045
		028	Cherokee			057
		031	Clayton			063
		033	Cobb			067
		038	Coweta			077
		044	De Kalb			089
		048	Douglas			097
		056	Fayette			113
		058	Forsyth			117
		060	Fulton			121
		067	Gwinnett			135
		075	Henry			151
		107	Newton			217
		110	Paulding			223
		112	Pickens			227
		122	Rockdale			247
		126	Spalding			255
		147	Walton			297
017	NJ		Atlantic-Cape May, NJ, PMSA	0560	NJ	
			New Jersey			
		001	Atlantic			001
		005	Cape May			009
018	GA		Augusta-Aiken, GA-SC, MSA	0600	GA	
			Georgia			
		036	Columbia			073
		094	McDuffie			189
		121	Richmond			245
	SC		South Carolina		SC	
		002	Aiken			003
		019	Edgefield			037
019	TX		Austin-San Marcos, TX, MSA	0640	TX	
			Texas			
		011	Bastrop			021
		028	Caldwell			055
		105	Hays			209
		227	Travis			453
		246	Williamson			491

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020	CA		Bakersfield, CA, MSA	0680	CA	
		015	California Kern			029
021	MD		Baltimore, MD, PMSA	0720	MD	
		002	Maryland Anne Arundel			003
		003	Baltimore			005
		004	Baltimore city			510
		007	Carroll			013
		013	Harford			025
		014	Howard			027
		018	Queen Anne's			035
022	ME		Bangor, ME, NECMA	0733	ME	
		010	Maine Penobscot			019
023	MA		Barnstable-Yarmouth, MA, NECMA	0743	MA	
		001	Massachusetts Barnstable			001
024	LA		Baton Rouge, LA, MSA	0760	LA	
		003	Louisiana Ascension			005
		017	East Baton Rouge			033
		032	Livingston			063
		061	West Baton Rouge			121
025	TX		Beaumont-Port Arthur, TX, MSA	0840	TX	
		100	Texas Hardin			199
		123	Jefferson			245
		181	Orange			361
026	WA		Bellingham, WA, MSA	0860	WA	
		037	Washington Whatcom			073
027	MI		Benton Harbor, MI, MSA	0870	MI	
		011	Michigan Berrien			021
028	NJ		Bergen-Passaic, NJ, PMSA	0875	NJ	
		002	New Jersey Bergen			003
		016	Passaic			031
029	MT		Billings, MT, MSA	0880	MT	
		056	Montana Yellowstone			111
030	MS		Biloxi-Gulfport-Pascagoula, MS, MSA	0920	MS	
		023	Mississippi Hancock			045
		024	Harrison			047
		030	Jackson			059
031	NY		Binghamton, NY, MSA	0960	NY	
		003	New York Broome			007
		050	Tioga			107

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032	AL	Birmingham, AL, MSA	1000	AL	
		Alabama			
	005	Blount			009
	037	Jefferson			073
	058	St. Clair			115
	059	Shelby			117
033	ND	Bismarck, ND, MSA	1010	ND	
		North Dakota			
	008	Burleigh			015
	030	Morton			059
034	IN	Bloomington, IN, MSA	1020	IN	
		Indiana			
	053	Monroe			105
035	IL	Bloomington-Normal, IL, MSA	1040	IL	
		Illinois			
	057	McLean			113
036	ID	Boise City, ID, MSA	1080	ID	
		Idaho			
	001	Ada			001
	014	Canyon			027
037	MA	Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH	1123	MA	
		Massachusetts			
	003	Bristol			005
	005	Essex			009
	009	Middlesex			017
	011	Norfolk			021
	012	Plymouth			023
	013	Suffolk			025
	014	Worcester			027
	NH	New Hampshire		NH	
	006	Hillsborough			011
	008	Rockingham			015
	009	Strafford			017
038	CO	Boulder-Longmont, CO, PMSA	1125	CO	
		Colorado			
	007	Boulder			013
039	TX	Brazoria, TX, PMSA	1145	TX	
		Texas			
	020	Brazoria			039
040	WA	Bremerton, WA, PMSA	1150	WA	
		Washington			
	018	Kitsap			035
041	TX	Brownsville-Harlingen-San Benito, TX, MSA	1240	TX	
		Texas			
	031	Cameron			061
042	TX	Bryan-College Station, TX, MSA	1260	TX	
		Texas			
	021	Brazos			041
043	NY	Buffalo-Niagara Falls, NY, MSA	1280	NY	
		New York			
	014	Erie			029
	030	Niagara			063

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044	VT	Burlington, VT, NECMA Vermont	1303	VT	
		004 Chittenden			007
		006 Franklin			011
		007 Grand Isle			013
045	OH	Canton-Massillon, OH, MSA Ohio	1320	OH	
		010 Carroll			019
		076 Stark			151
046	WY	Casper, WY, MSA Wyoming	1350	WY	
		013 Natrona			025
047	IA	Cedar Rapids, IA, MSA Iowa	1360	IA	
		057 Linn			113
048	IL	Champaign-Urbana, IL, MSA Illinois	1400	IL	
		010 Champaign			019
049	SC	Charleston-North Charleston, SC, MSA South Carolina	1440	SC	
		008 Berkeley			015
		010 Charleston			019
		018 Dorchester			035
050	WV	Charleston, WV, MSA West Virginia	1480	WV	
		020 Kanawha			039
		040 Putnam			079
051	NC	Charlotte-Gastonia-Rock Hill, NC-SC, MSA North Carolina	1520	NC	
		013 Cabarrus			025
		036 Gaston			071
		055 Lincoln			109
		060 Mecklenburg			119
		080 Rowan			159
		090 Union			179
	SC	South Carolina		SC	
		046 York			091
052	VA	Charlottesville, VA, MSA Virginia	1540	VA	
		002 Albemarle			003
		025 Charlottesville city			540
		045 Fluvanna			065
		055 Greene			079
053	GA	Chattanooga, TN-GA, MSA Georgia	1560	GA	
		023 Catoosa			047
		041 Dade			083
		146 Walker			295
	TN	Tennessee		TN	
		033 Hamilton			065
		058 Marion			115
054	WY	Cheyenne, WY, MSA Wyoming	1580	WY	
		011 Laramie			021



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055	IL	Chicago, IL, PMSA Illinois	1600	IL
		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	CA	Chico-Paradise, CA, MSA California	1620	CA
		004 Butte		007
057	IN	Cincinnati, OH-KY-IN, PMSA Indiana	1640	IN
		015 Dearborn		029
		058 Ohio		115
	KY	Kentucky		KY
		008 Boone		015
		019 Campbell		037
		039 Gallatin		077
		041 Grant		081
		059 Kenton		117
		096 Pendleton		191
	OH	Ohio		OH
		008 Brown		015
		013 Clermont		025
		031 Hamilton		061
		083 Warren		165
058	KY	Clarksville-Hopkinsville, TN-KY, MSA Kentucky	1660	KY
		024 Christian		047
	TN	Tennessee		TN
		063 Montgomery		125
059	OH	Cleveland-Lorain-Elyria, OH, PMSA Ohio	1680	OH
		004 Ashtabula		007
		018 Cuyahoga		035
		028 Geauga		055
		043 Lake		085
		047 Lorain		093
		052 Medina		103
060	CO	Colorado Springs, CO, MSA Colorado	1720	CO
		021 El Paso		041
061	MO	Columbia, MO, MSA Missouri	1740	MO
		010 Boone		019
062	SC	Columbia, SC, MSA South Carolina	1760	SC
		032 Lexington		063
		040 Richland		079

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063		Columbus, GA-AL, MSA	1800	
	AL	Alabama		AL
		057 Russell		113
	GA	Georgia		GA
		026 Chattahoochee		053
		072 Harris		145
		106 Muscogee		215
064		Columbus, OH, MSA	1840	
	OH	Ohio		OH
		021 Delaware		041
		023 Fairfield		045
		025 Franklin		049
		045 Licking		089
		049 Madison		097
		065 Pickaway		129
065		Corpus Christi, TX, MSA	1880	
	TX	Texas		TC
		178 Nueces		355
		205 San Patricio		409
066		Cumberland, MD-WV, MSA	1900	
	MD	Maryland		MD
		001 Allegany		001
	WV	West Virginia		WV
		029 Mineral		057
067		Dallas, TX, PMSA	1920	
	TX	Texas		TX
		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		Danville, VA, MSA	1950	
	VA	Virginia		VA
		035 Danville city		590
		097 Pittsylvania		143
069		Davenport-Moline-Rock Island, IA-IL, MSA	1960	
	IL	Illinois		IL
		037 Henry		073
		081 Rock Island		161
	IA	Iowa		IA
		082 Scott		163
070		Dayton-Springfield, OH, MSA	2000	
	OH	Ohio		OH
		012 Clark		023
		029 Greene		057
		055 Miami		109
		057 Montgomery		113
071		Daytona Beach, FL, MSA	2020	
	FL	Florida		FL
		018 Flagler		035
		064 Volusia		127

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072	AL		Decatur, AL, MSA	2030	AL	
		040	Alabama			079
		052	Lawrence			103
			Morgan			
073	IL		Decatur, IL, MSA	2040	IL	
		058	Illinois			115
			Macon			
074	CO		Denver, CO, PMSA	2080	CO	
		001	Colorado			001
		003	Adams			005
		016	Arapahoe			031
		018	Denver			035
		030	Douglas			059
			Jefferson			
075	IA		Des Moines, IA, MSA	2120	IA	
		025	Iowa			049
		077	Dallas			153
		091	Polk			181
			Warren			
076	MI		Detroit, MI, PMSA	2160	MI	
		044	Michigan			087
		050	Lapeer			099
		058	Macomb			115
		063	Monroe			125
		074	Oakland			147
		082	St. Clair			163
			Wayne			
077	AL		Dothan, AL, MSA	2180	AL	
		023	Alabama			045
		035	Dale			069
			Houston			
078	DE		Dover, DE, MSA	2190	DE	
		001	Delaware			001
			Kent			
079	IA		Dubuque, IA, MSA	2200	IA	
		031	Iowa			061
			Dubuque			
080	MN		Duluth-Superior, MN-WI, MSA	2240	MN	
		069	Minnesota			137
			St. Louis			
	WI		Wisconsin		WI	
		016	Douglas			031
081	NY		Dutchess County, NY, PMSA	2281	NY	
		013	New York			027
			Dutchess			
082	WI		Eau Claire, WI, MSA	2290	WI	
		009	Wisconsin			017
		018	Chippewa			035
			Eau Claire			

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083			El Paso, TX, MSA	2320		
	TX		Texas		TX	
		071	El Paso			141
084			Elkhart-Goshen, IN, MSA	2330		
	IN		Indiana		IN	
		020	Elkhart			039
085			Elmira, NY, MSA	2335		
	NY		New York		NY	
		007	Chemung			015
086			Enid, OK, MSA	2340		
	OK		Oklahoma		OK	
		024	Garfield			047
087			Erie, PA, MSA	2360		
	PA		Pennsylvania		PA	
		025	Erie			049
088			Eugene-Springfield, OR, MSA	2400		
	OR		Oregon		OR	
		020	Lane			039
089			Evansville-Henderson, IN-KY, MSA	2440		
	IN		Indiana		IN	
		065	Posey			129
		082	Vanderburgh			163
		087	Warrick			173
	KY		Kentucky		KY	
		051	Henderson			101
090			Fargo-Moorhead, ND-MN, MSA	2520		
	MN		Minnesota		MN	
		014	Clay			027
	ND		North Dakota		ND	
		009	Cass			017
091			Fayetteville, NC, MSA	2560		
	NC		North Carolina		NC	
		026	Cumberland			051
092			Fayetteville-Springdale-Rogers, AR, MSA	2580		
	AR		Arkansas		AR	
		004	Benton			007
		072	Washington			143
093			Flint, MI, PMSA	2640		
	MI		Michigan		MI	
		025	Genesee			049
094			Florence, AL, MSA	2650		
	AL		Alabama		AL	
		017	Colbert			033
		039	Lauderdale			077

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095	SC	021	Florence, SC, MSA South Carolina Florence	2655	SC	041
096	CO	035	Fort Collins-Loveland, CO, MSA Colorado Larimer	2670	CO	069
097	FL	006	Fort Lauderdale, FL, PMSA Florida Broward	2680	FL	011
098	FL	036	Fort Myers-Cape Coral, FL, MSA Florida Lee	2700	FL	
099	FL	043 056	Fort Pierce-Port St. Lucie, FL, MSA Florida Martin St. Lucie	2710	FL	085 111
100	AR	017 066	Fort Smith, AR-OK, MSA Arkansas Crawford Sebastian	2720	AR	033 131
	OK	068	Oklahoma Sequoyah		OK	135
101	FL	046	Fort Walton Beach, FL, MSA Florida Okaloosa	2750	FL	091
102	IN	001 002 017 035 090 092	Fort Wayne, IN, MSA Indiana Adams Allen De Kalb Huntington Wells Whitley	2760	IN	001 003 033 069 179 183
103	TX	111 126 184 220	Fort Worth-Arlington, TX, PMSA Texas Hood Johnson Parker Tarrant	2800	TX	221 251 367 439
104	CA	010 020	Fresno, CA, MSA California Fresno Madera	2840	CA	019 039
105	AL	028	Gadsden, AL, MSA Alabama Etowah	2880	AL	055
106	FL	001	Gainesville, FL, MSA Florida Alachua	2900	FL	001
107	TX	084	Galveston-Texas City, TX, PMSA Texas Galveston	2920	TX	167

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108	IN		Gary, IN, PMSA	2960	IN	
		045	Indiana			089
		064	Lake Porter			127
109	NY		Glens Falls, NY, MSA	2975	NY	
		053	New York			113
		054	Warren Washington			115
110	NC		Goldsboro, NC, MSA	2980	NC	
		096	North Carolina Wayne			191
111	MN		Grand Forks, ND-MN, MSA	2985	MN	
		060	Minnesota			119
	ND		Polk		ND	
		018	North Dakota Grand Forks			
112	MI		Grand Rapids-Muskegon-Holland, MI, MSA	3000	MI	
		003	Michigan			005
		041	Allegan			081
		061	Kent			121
		070	Muskegon Ottawa			139
113	MT		Great Falls, MT, MSA	3040	MT	
		007	Montana Cascade			013
114	CO		Greeley, CO, PMSA	3060	CO	
		062	Colorado Weld			123
115	WI		Green Bay, WI, MSA	3080	WI	
		005	Wisconsin Brown			009
116	NC		Greensboro--Winston-Salem--High Point, NC, MSA	3120	NC	
		001	North Carolina			001
		029	Alamance			057
		030	Davidson			059
		034	Davie			067
		041	Forsyth			081
		076	Guilford			151
		085	Randolph			169
		099	Stokes Yadkin			197
117	NC		Greenville, NC, MSA	3150	NC	
		074	North Carolina Pitt			147
118	SC		Greenville-Spartanburg-Anderson, SC, MSA	3160	SC	
		004	South Carolina			007
		011	Anderson			021
		023	Cherokee			045
		039	Greenville			077
		042	Pickens Spartanburg			083
119	MD		Hagerstown, MD, PMSA	3180	MD	
		022	Maryland Washington			043

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120	OH		Hamilton-Middletown, OH, PMSA	3200	OH	
		009	Ohio Butler			017
121	PA		Harrisburg-Lebanon-Carlisle, PA, MSA	3240	PA	
		021	Pennsylvania Cumberland			041
		022	Dauphin			043
		038	Lebanon			075
		050	Perry			099
122	CT		Hartford, CT, NECMA	3283	CT	
		002	Connecticut Hartford			003
		004	Middlesex			007
		007	Tolland			013
123	MS		Hattiesburg, MS, MSA	3285	MS	
		018	Mississippi Forrest			035
		037	Lamar			073
124	NC		Hickory-Morganton, NC, MSA	3290	NC	
		002	North Carolina Alexander			003
		012	Burke			023
		014	Caldwell			027
		018	Catawba			
125	HI		Honolulu, HI, MSA	3320	HI	
		002	Hawaii Honolulu			003
126	LA		Houma, LA, MSA	3350	LA	
		029	Louisiana Lafourche			057
		055	Terrebonne			109
127	TX		Houston, TX, PMSA	3360	TX	
		036	Texas Chambers			071
		079	Fort Bend			157
		101	Harris			201
		146	Liberty			291
		170	Montgomery			339
		237	Waller			473
128	KY		Huntington-Ashland, WV-KY-OH, MSA	3400	KY	
		010	Kentucky Boyd			019
		022	Carter			043
		045	Greenup			089
	OH		Ohio		OH	
		044	Lawrence			087
	WV		West Virginia		WV	
		006	Cabell			011
		050	Wayne			099
129	AL		Huntsville, AL, MSA	3440	AL	
		042	Alabama Limestone			083
		045	Madison			089

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130	IN		Indianapolis, IN, MSA	3480	IN	
			Indiana			
		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	IA		Iowa City, IA, MSA	3500	IA	
			Iowa			
		052	Johnson			103
132	MI		Jackson, MI, MSA	3520	MI	
			Michigan			
		038	Jackson			075
133	MS		Jackson, MS, MSA	3560	MS	
			Mississippi			
		025	Hinds			049
		045	Madison			089
		061	Rankin			121
134	TN		Jackson, TN, MSA	3580	TN	
			Tennessee			
		057	Madison			113
135	FL		Jacksonville, FL, MSA	3600	FL	
			Florida			
		010	Clay			019
		016	Duval			031
		045	Nassau			089
		055	St. Johns			109
136	NC		Jacksonville, NC, MSA	3605	NC	
			North Carolina			
		067	Onslow			133
137	NY		Jamestown, NY, MSA	3610	NY	
			New York			
		006	Chautauqua			013
138	WI		Janesville-Beloit, WI, MSA	3620	WI	
			Wisconsin			
		054	Rock			105
139	NJ		Jersey City, NJ, PMSA	3640	NJ	
			New Jersey			
		009	Hudson			017
140	TN		Johnson City-Kingsport-Bristol, TN-VA, MSA	3660	TN	
			Tennessee			
		010	Carter			019
		037	Hawkins			073
		082	Sullivan			163
		086	Unicoi			171
		090	Washington			179
	VA		Virginia		VA	
		015	Bristol city			520
		115	Scott			169
		129	Washington			191



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141	PA		Johnstown, PA, MSA	3680	PA	
		011	Pennsylvania			021
		056	Cambria			111
			Somerset			
142	MO		Joplin, MO, MSA	3710	MO	
		049	Missouri			097
		073	Jasper			145
			Newton			
143	MI		Kalamazoo-Battle Creek, MI, MSA	3720	MI	
		013	Michigan			025
		039	Calhoun			077
		080	Kalamazoo			159
			Van Buren			
144	IL		Kankakee, IL, PMSA	3740	IL	
		046	Illinois			091
			Kankakee			
145	KA		Kansas City, MO-KS, MSA	3760	KS	
		046	Kansas			091
		052	Johnson			103
		061	Leavenworth			121
		105	Miami			209
	MI		Wyandotte		MO	
		019	Missouri			037
		024	Cass			047
		025	Clay			049
		048	Clinton			095
		054	Jackson			107
		083	Lafayette			165
		089	Platte			177
			Ray			
146	WI		Kenosha, WI, PMSA	3800	WI	
		030	Wisconsin			059
			Kenosha			
147	TX		Killeen-Temple, TX, MSA	3810	TX	
		014	Texas			027
		050	Bell			
			Coryell			
148	TN		Knoxville, TN, MSA	3840	TN	
		001	Tennessee			001
		005	Anderson			009
		047	Blount			093
		053	Knox			105
		078	Loudon			155
		087	Sevier			173
			Union			
149	IN		Kokomo, IN, MSA	3850	IN	
		034	Indiana			067
		080	Howard			159
			Tipton			
150	MN		La Crosse, WI-MN, MSA	3870	MN	
		028	Minnesota			055
	WI		Houston		WI	
		032	Wisconsin			063
			La Crosse			

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151	LA		Lafayette, LA, MSA	3880	LA	
		001	Louisiana			001
		028	Acadia			055
		049	Lafayette			097
		050	St. Landry			099
			St. Martin			
152	IN		Lafayette, IN, MSA	3920	IN	
		012	Indiana			023
		079	Clinton			157
			Tippecanoe			
153	LA		Lake Charles, LA, MSA	3960	LA	
		010	Louisiana			019
			Calcasieu			
154	FL		Lakeland-Winter Haven, FL, MSA	3980	FL	
		053	Florida			105
			Polk			
155	PA		Lancaster, PA, MSA	4000	PA	
		036	Pennsylvania			071
			Lancaster			
156	MI		Lansing-East Lansing, MI, MSA	4040	MI	
		019	Michigan			037
		023	Clinton			045
		033	Eaton			065
			Ingham			
157	TX		Laredo, TX, MSA	4080	TX	
		240	Texas			479
			Webb			
158	NM		Las Cruces, NM, MSA	4100	NM	
		008	New Mexico			013
			Dona Ana			
159	AZ		Las Vegas, NV-AZ, MSA	4120	AZ	
		009	Arizona			015
	NV		Nevada		NV	
		003	Clark			003
		013	Nye			023
160	KS		Lawrence, KS, MSA	4150	KS	
		023	Kansas			045
			Douglas			
161	OK		Lawton, OK, MSA	4200	OK	
		016	Oklahoma			031
			Comanche			
162	ME		Lewiston-Auburn, ME, NECMA	4243	ME	
		001	Maine			001
			Androscoggin			
163	KY		Lexington, KY, MSA	4280	KY	
		009	Kentucky			017
		025	Bourbon			049
		034	Clark			067
		057	Fayette			113
		076	Jessamine			151
		105	Madison			209
		120	Scott			239
			Woodford			

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164	OH		Lima, OH, MSA	4320	OH	
		002	Ohio			003
		006	Allen			011
			Auglaize			
165	NE		Lincoln, NE, MSA	4360	NE	
		055	Nebraska			109
			Lancaster			
166	AR		Little Rock-North Little Rock, AR, MSA	4400	AR	
		023	Arkansas			045
		043	Faulkner			085
		060	Lonoke			119
		063	Pulaski			125
			Saline			
167	TX		Longview-Marshall, TX, MSA	4420	TX	
		092	Texas			183
		102	Gregg			203
		230	Harrison			459
			Upshur			
168	CA		Los Angeles-Long Beach, CA, PMSA	4480	CA	
		019	California			037
			Los Angeles			
169	IN		Louisville, KY-IN, MSA	4520	IN	
		010	Indiana			019
		022	Clark			043
		031	Floyd			061
		072	Harrison			143
	KY		Scott		KY	
		015	Kentucky			029
		056	Bullitt			111
		093	Jefferson			185
			Oldham			
170	TX		Lubbock, TX, MSA	4600	TX	
		152	Texas			303
			Lubbock			
171	VA		Lynchburg, VA, MSA	4640	VA	
		006	Virginia			009
		011	Amherst			019
		012	Bedford			515
		020	Bedford city			031
		076	Campbell			680
			Lynchburg city			
172	GA		Macon, GA, MSA	4680	GA	
		011	Georgia			021
		076	Bibb			153
		084	Houston			169
		111	Jones			225
		143	Peach			289
			Twiggs			
173	WI		Madison, WI, MSA	4720	WI	
		013	Wisconsin			025
			Dane			
174	OH		Mansfield, OH, MSA	4800	OH	
		017	Ohio			033
		070	Crawford			139
			Richland			

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175			McAllen-Edinburg-Mission, TX, MSA	4880		
	TX		Texas		TX	
		108	Hidalgo			215
176			Medford-Ashland, OR, MSA	4890		
	OR		Oregon		OR	
		015	Jackson			029
177			Melbourne-Titusville-Palm Bay, FL, MSA	4900		
	FL		Florida		FL	
		005	Brevard			009
178			Memphis, TN-AR-MS, MSA	4920		
	AR		Arkansas		AR	
		018	Crittenden			035
	MS		Mississippi		MS	
		017	De Soto			033
	TN		Tennessee		TN	
		024	Fayette			047
		079	Shelby			157
		084	Tipton			167
179			Merced, CA, MSA	4940		
	CA		California		CA	
		024	Merced			047
180			Miami, FL, PMSA	5000		
	FL		Florida		FL	
		013	Dade			025
181			Middlesex-Somerset-Hunterdon, NJ, PMSA	5015		
	NJ		New Jersey		NJ	
		010	Hunterdon			019
		012	Middlesex			023
		018	Somerset			035
182			Milwaukee-Waukesha, WI, PMSA	5080		
	WI		Wisconsin		WI	
		041	Milwaukee			079
		046	Ozaukee			089
		067	Washington			131
		068	Waukesha			133
183			Minneapolis-St. Paul, MN-WI, MSA	5120		
	MN		Minnesota		MN	
		002	Anoka			003
		010	Carver			019
		013	Chisago			025
		019	Dakota			037
		027	Hennepin			053
		030	Isanti			059
		062	Ramsey			123
		070	Scott			139
		071	Sherburne			141
		082	Washington			163
		086	Wright			171
	WI		Wisconsin		WI	
		048	Pierce			093
		056	St. Croix			109
184			Mobile, AL, MSA	5160		
	AL		Alabama		AL	
		002	Baldwin			003
		049	Mobile			097

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185	CA		Modesto, CA, MSA	5170	CA	
		050	California Stanislaus			099
186	NJ		Monmouth-Ocean, NJ, PMSA	5190	NJ	
		013	New Jersey Monmouth			025
		015	Ocean			029
187	LA		Monroe, LA, MSA	5200	LA	
		037	Louisiana Ouachita			073
188	AL		Montgomery, AL, MSA	5240	AL	
		001	Alabama Autauga			001
		026	Elmore			051
		051	Montgomery			101
189	IN		Muncie, IN, MSA	5280	IN	
		018	Indiana Delaware			035
190	SC		Myrtle Beach, SC, MSA	5330	SC	
		026	South Carolina Horry			051
191	FL		Naples, FL, MSA	5345	FL	
		011	Florida Collier			021
192	TN		Nashville, TN, MSA	5360	TN	
		011	Tennessee Cheatham			021
		019	Davidson			037
		022	Dickson			043
		074	Robertson			147
		075	Rutherford			149
		083	Sumner			165
		094	Williamson			187
		095	Wilson			189
193	NY		Nassau-Suffolk, NY, PMSA	5380	NY	
		028	New York Nassau			059
		048	Suffolk			103
194	CT		New Haven-Bridgeport-Stamford-Danbury-Waterbury, CT, NECMA	5483	CT	
		001	Connecticut Fairfield			001
		005	New Haven			009
195	CT		New London-Norwich, CT, NECMA	5523	CT	
		006	Connecticut New London			011
196	LA		New Orleans, LA, MSA	5560	LA	
		026	Louisiana Jefferson			051
		036	Orleans			071
		038	Plaquemines			075
		044	St. Bernard			087
		045	St. Charles			089
		047	St. James			093
		048	St. John the Baptist			095
		052	St. Tammany			103

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197			New York, NY, PMSA	5600		
	NY		New York		NY	
		029	New York city			005
		038	Putnam			079
		040	Rockland			087
		056	Westchester			119
198			Newark, NJ, PMSA	5640		
	NJ		New Jersey		NJ	
		007	Essex			013
		014	Morris			027
		019	Sussex			037
		020	Union			039
		021	Warren			041
199			Newburgh, NY-PA, PMSA	5660		
	NY		New York		NY	
		034	Orange			071
	PA		Pennsylvania		PA	
		052	Pike			103
200			Norfolk-Virginia Beach-Newport News, VA-NC, MSA	5720		
	NC		North Carolina		NC	
		027	Currituck			053
	VA		Virginia		VA	
		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			Oakland, CA, PMSA	5775		
	CA		California		CA	
		001	Alameda			001
		007	Contra Costa			013
202			Ocala, FL, MSA	5790		
	FL		Florida		FL	
		042	Marion			083
203			Odessa-Midland, TX, MSA	5800		
	TX		Texas		TX	
		068	Ector			135
		165	Midland			329
204			Oklahoma City, OK, MSA	5880		
	OK		Oklahoma		OK	
		009	Canadian			017
		014	Cleveland			027
		042	Logan			083
		044	McClain			087
		055	Oklahoma			109
		063	Pottawatomie			125
205			Olympia, WA, PMSA	5910		
	WA		Washington		WA	
		034	Thurston			067

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206			Omaha, NE-IA, MSA	5920		
	IA		Iowa		IA	
		078	Pottawattamie			155
	NE		Nebraska		NE	
		013	Cass			025
		028	Douglas			055
		077	Sarpy			153
		089	Washington			177
207			Orange County, CA, PMSA	5945		
	CA		California		CA	
		030	Orange			059
208			Orlando, FL, MSA	5960		
	FL		Florida		FL	
		035	Lake			069
		048	Orange			095
		049	Osceola			097
		059	Seminole			117
209			Owensboro, KY, MSA	5990		
	KY		Kentucky		KY	
		030	Daviess			059
210			Panama City, FL, MSA	6015		
	FL		Florida		FL	
		003	Bay			005
211			Parkersburg-Marietta, WV-OH, MSA	6020		
	OH		Ohio		OH	
		084	Washington			167
	WV		West Virginia		WV	
		054	Wood			107
212			Pensacola, FL, MSA	6080		
	FL		Florida		FL	
		017	Escambia			033
		057	Santa Rosa			113
213			Peoria-Pekin, IL, MSA	6120		
	IL		Illinois		IL	
		072	Peoria			143
		090	Tazewell			179
		102	Woodford			203
214			Philadelphia, PA-NJ, PMSA	6160		
	NJ		New Jersey		NJ	
		003	Burlington			005
		004	Camden			007
		008	Gloucester			015
		017	Salem			033
	PA		Pennsylvania		PA	
		009	Bucks			017
		015	Chester			029
		023	Delaware			045
		046	Montgomery			091
		051	Philadelphia			101
215			Phoenix-Mesa, AZ, MSA	6200		
	AZ		Arizona		AZ	
		008	Maricopa			013
		012	Pinal			021
216			Pine Bluff, AR, MSA	6240		
	AR		Arkansas		AR	
		035	Jefferson			069

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217	PA		Pittsburgh, PA, MSA	6280	PA	
		002	Pennsylvania			003
		004	Allegheny			007
		010	Beaver			019
		026	Butler			051
		063	Fayette			125
		065	Washington			129
			Westmoreland			
218	MA		Pittsfield, MA, NECMA	6323	MA	
		002	Massachusetts			003
			Berkshire			
219	ME		Portland, ME, NECMA	6403	ME	
		003	Maine			005
			Cumberland			
220	OR		Portland-Vancouver, OR-WA, PMSA	6440	OR	
		003	Oregon			005
		005	Clackamas			009
		026	Columbia			051
		034	Multnomah			067
		036	Washington			071
	WA		Yamhill		WA	
		006	Washington			011
			Clark			
221	RI		Providence-Warwick-Pawtucket, RI, NECMA	6483	RI	
		001	Rhode Island			001
		002	Bristol			003
		004	Kent			007
		005	Providence			009
			Washington			
222	UT		Provo-Orem, UT, MSA	6520	UT	
		025	Utah			049
			Utah			
223	CO		Pueblo, CO, MSA	6560	CO	
		051	Colorado			101
			Pueblo			
224	FL		Punta Gorda, FL, MSA	6580	FL	
		008	Florida			015
			Charlotte			
225	WI		Racine, WI, PMSA	6600	WI	
		052	Wisconsin			101
			Racine			
226	NC		Raleigh-Durham-Chapel Hill, NC, MSA	6640	NC	
		019	North Carolina			037
		032	Chatham			063
		035	Durham			069
		051	Franklin			101
		068	Johnston			135
		092	Orange			183
			Wake			
227	SD		Rapid City, SD, MSA	6660	SD	
		051	South Dakota			103
			Pennington			



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228	PA	006	Reading, PA, MSA Pennsylvania Berks	6680	PA	011
229	CA	045	Redding, CA, MSA California Shasta	6690	CA	089
230	NV	016	Reno, NV, MSA Nevada Washoe	6720	NV	031
231	WA	003 011	Richland-Kennewick-Pasco, WA, MSA Washington Benton Franklin	6740	WA	005 021
232	VA	023 027 030 037 053 059 061 064 086 096 100 102 108	Richmond-Petersburg, VA, MSA Virginia Charles City Chesterfield Colonial Heights city Dinwiddie Goochland Hanover Henrico Hopewell city New Kent Petersburg city Powhatan Prince George Richmond city	6760	VA	036 041 570 053 075 085 087 670 127 730 145 149 760
233	CA	033 036	Riverside-San Bernardino, CA, PMSA California Riverside San Bernardino	6780	CA	065 071
234	VA	014 109 110 114	Roanoke, VA, MSA Virginia Botetourt Roanoke Roanoke city Salem city	6800	VA	023 161 770 775
235	MN	055	Rochester, MN, MSA Minnesota Olmsted	6820	MN	109
236	NY	018 024 026 033 035 055	Rochester, NY, MSA New York Genesee Livingston Monroe Ontario Orleans Wayne	6840	NY	037 051 055 069 073 117
237	IL	004 071 101	Rockford, IL, MSA Illinois Boone Ogle Winnebago	6880	IL	007 141 201

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238	NC		Rocky Mount, NC, MSA	6895	NC	
		033	North Carolina			065
		064	Edgecombe			127
			Nash			
239	CA		Sacramento, CA, PMSA	6920	CA	
		009	California			017
		031	El Dorado			061
		034	Placer			067
			Sacramento			
240	MI		Saginaw-Bay City-Midland, MI, MSA	6960	MI	
			Michigan			
		009	Bay			017
		056	Midland			111
		073	Saginaw			145
241	MN		St. Cloud, MN, MSA	6980	MN	
			Minnesota			
		005	Benton			009
		073	Stearns			145
242	MO		St. Joseph, MO, MSA	7000	MO	
			Missouri			
		002	Andrew			003
		011	Buchanan			021
243	MO		St. Louis, MO-IL, MSA	7040	IL	
			Illinois			
		014	Clinton			027
		042	Jersey			083
		060	Madison			119
		067	Monroe			133
		082	St. Clair			163
	IL		Missouri		MO	
		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	OR		Salem, OR, PMSA	7080	OR	
			Oregon			
		024	Marion			047
		027	Polk			053
245	CA		Salinas, CA, MSA	7120	CA	
			California			
		027	Monterey			053
246	UT		Salt Lake City-Ogden, UT, MSA	7160	UT	
			Utah			
		006	Davis			011
		018	Salt Lake			035
		029	Weber			057
247	TX		San Angelo, TX, MSA	7200	TX	
			Texas			
		226	Tom Green			451

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248			San Antonio, TX, MSA	7240		
	TX		Texas		TX	
		015	Bexar			029
		046	Comal			091
		094	Guadalupe			187
		247	Wilson			493
249			San Diego, CA, MSA	7320		
	CA		California		CA	
		037	San Diego			073
250			San Francisco, CA, PMSA	7360		
	CA		California		CA	
		021	Marin			041
		038	San Francisco			075
		041	San Mateo			081
251			San Jose, CA, PMSA	7400		
	CA		California		CA	
		043	Santa Clara			085
252			San Luis Obispo-Atascadero-Paso Robles, CA, MSA	7460		
	CA		California		CA	
		040	San Luis Obispo			079
253			Santa Barbara-Santa Maria-Lompoc, CA, MSA	7480		
	CA		California		CA	
		042	Santa Barbara			083
254			Santa Cruz-Watsonville, CA, PMSA	7485		
	CA		California		CA	
		044	Santa Cruz			087
255			Santa Fe, NM, MSA	7490		
	NM		New Mexico		NM	
		016	Los Alamos			028
		027	Santa Fe			049
256			Santa Rosa, CA, PMSA	7500		
	CA		California		CA	
		049	Sonoma			097
257			Sarasota-Bradenton, FL, MSA	7510		
	FL		Florida		FL	
		041	Manatee			081
		058	Sarasota			115
258			Savannah, GA, MSA	7520		
	GA		Georgia		GA	
		015	Bryan			029
		025	Chatham			051
		051	Effingham			103
259			Scranton--Wilkes-Barre--Hazleton, PA, MSA	7560		
	PA		Pennsylvania		PA	
		019	Columbia			037
		035	Lackawanna			069
		040	Luzerne			079
		066	Wyoming			131
260			Seattle-Bellevue-Everett, WA, PMSA	7600		
	WA		Washington		WA	
		015	Island			029
		017	King			033
		031	Snohomish			061

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261	PA	043	Sharon, PA, MSA Pennsylvania Mercer	7610	PA	085
262	WI	060	Sheboygan, WI, MSA Wisconsin Sheboygan	7620	WI	117
263	TX	091	Sherman-Denison, TX, MSA Texas Grayson	7640	TX	181
264	LA	008 009 060	Shreveport-Bossier City, LA, MSA Louisiana Bossier Caddo Webster	7680	LA	015 017 119
265	IA NE	097 022	Sioux City, IA-NE, MSA Iowa Woodbury Nebraska Dakota	7720	IA NE	193 043
266	SD	041 049	Sioux Falls, SD, MSA South Dakota Lincoln Minnehaha	7760	SD	083 099
267	IN	071	South Bend, IN, MSA Indiana St. Joseph	7800	IN	141
268	WA	032	Spokane, WA, MSA Washington Spokane	7840	WA	063
269	IL	065 084	Springfield, IL, MSA Illinois Menard Sangamon	7880	IL	129 167
270	MO	022 039 113	Springfield, MO, MSA Missouri Christian Greene Webster	7920	MO	043 077 225
271	MA	007 008	Springfield, MA, NECMA Massachusetts Hampden Hampshire	8003	MA	013 015
272	PA	014	State College, PA, MSA Pennsylvania Centre	8050	PA	027
273	OH WV	041 005 015	Steubenville-Weirton, OH-WV, MSA Ohio Jefferson West Virginia Brooke Hancock	8080	OH WV	081 009 029

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274	CA	039	Stockton-Lodi, CA, MSA California San Joaquin	8120	CA	077
275	SC	043	Sumter, SC, MSA South Carolina Sumter	8140	SC	085
276	NY	005 025 032 036	Syracuse, NY, MSA New York Cayuga Madison Onondaga Oswego	8160	NY	011 053 067 075
277	WA	027	Tacoma, WA, PMSA Washington Pierce	8200	WA	053
278	FL	020 037	Tallahassee, FL, MSA Florida Gadsden Leon	8240	FL	039 073
279	FL	027 029 051 052	Tampa-St. Petersburg-Clearwater, FL, MSA Florida Hernando Hillsborough Pasco Pinellas	8280	FL	053 057 101 103
280	IN	011 083 084	Terre Haute, IN, MSA Indiana Clay Vermillion Vigo	8320	IN	021 165 167
281	AR	046	Texarkana, TX-Texarkana, AR, MSA Arkansas Miller	8360	AR	091
	TX	019	Texas Bowie		TX	037
282	OH	026 048 087	Toledo, OH, MSA Ohio Fulton Lucas Wood	8400	39	051 095 173
283	KS	089	Topeka, KS, MSA Kansas Shawnee	8440	KS	177
284	NJ	011	Trenton, NJ, PMSA New Jersey Mercer	8480	NJ	021
285	AZ	011	Tucson, AZ, MSA Arizona Pima	8520	AZ	019

Primary and Metropolitan Statistical Areas Established in 1990  
 Effective with 2002 and Adapted for Use by DVS  
 United States  
 Puerto Rico - con.

286	OK		Tulsa, OK, MSA	8560	OK	
		019	Oklahoma			037
		057	Creek			113
		066	Osage			131
		072	Rogers			143
		073	Tulsa			145
			Wagoner			
287	AL		Tuscaloosa, AL, MSA	8600	AL	
		063	Alabama			125
			Tuscaloosa			
288	TX		Tyler, TX, MSA	8640	TX	
		212	Texas			423
			Smith			
289	NY		Utica-Rome, NY, MSA	8680	NY	
		021	New York			043
		031	Herkimer			065
			Oneida			
290	CA		Vallejo-Fairfield-Napa, CA, PMSA	8720	CA	
		028	California			055
		048	Napa			095
			Solano			
291	CA		Ventura, CA, PMSA	8735	CA	
		056	California			111
			Ventura			
292	TX		Victoria, TX, MSA	8750	TX	
		235	Texas			469
			Victoria			
293	NJ		Vineland-Millville-Bridgeton, NJ, PMSA	8760	NJ	
		006	New Jersey			011
			Cumberland			
294	CA		Visalia-Tulare-Porterville, CA, MSA	8780	CA	
		054	California			107
			Tulare			
295	TX		Waco, TX, MSA	8800	TX	
		155	Texas			309
			McLennan			
296	DC		Washington, DC-MD-VA-WV, PMSA	8840	DC	
		001	Dist. of Columbia			001
	MD		District of Columbia		MD	
		005	Maryland			009
		009	Calvert			017
		011	Charles			021
		016	Frederick			031
		017	Montgomery			033
	VA		Prince George's		VA	
		003	Virginia			510
		008	Alexandria city			013
		028	Arlington			043
		033	Clarke			047
		040	Culpeper			059
		041	Fairfax			600
		042	Fairfax city			610
		043	Falls Church city			661
		049	Fauquier			630
		068	Fredericksburg city			099
			King George			

Primary and Metropolitan Statistical Areas Established in 1990  
 Effective with 2002 and Adapted for Use by DVS  
 United States  
 Puerto Rico - con.

		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
	WV		West Virginia		WV	
		002	Berkeley			003
		019	Jefferson			037
297			Waterloo-Cedar Falls, IA, MSA	8920		
	IA		Iowa		IA	
		007	Black Hawk			013
298			Wausau, WI, MSA	8940		
	WI		Wisconsin		WI	
		037	Marathon			073
299			West Palm Beach-Boca Raton, FL, MSA	8960		
	FL		Florida		FL	
		050	Palm Beach			099
300			Wheeling, WV-OH, MSA	9000		
	OH		Ohio		OH	
		007	Belmont			013
	WV		West Virginia		WV	
		026	Marshall			051
		035	Ohio			069
301			Wichita, KS, MSA	9040		
	KS		Kansas		KS	
		008	Butler			015
		040	Harvey			079
		087	Sedgwick			173
302			Wichita Falls, TX, MSA	9080		
	TX		Texas		TX	
		005	Archer			009
		243	Wichita			485
303			Williamsport, PA, MSA	9140		
	PA		Pennsylvania		PA	
		041	Lycoming			081
304			Wilmington-Newark, DE-MD, PMSA	9160		
	DE		Delaware		DE	
		002	New Castle			003
	MD		Maryland		MD	
		008	Cecil			015
305			Wilmington, NC, MSA	9200		
	NC		North Carolina		NC	
		010	Brunswick			019
		065	New Hanover			129
306			Yakima, WA, MSA	9260		
	WA		Washington		WA	
		039	Yakima			077

Primary and Metropolitan Statistical Areas Established in 1990  
 Effective with 2002 and Adapted for Use by DVS  
 United States  
 Puerto Rico - con.

307	CA	057	Yolo, CA, PMSA California Yolo	9270	CA	113
308	PA	067	York, PA, MSA Pennsylvania York	9280	PA	133
309	OH	015	Youngstown-Warren, OH, MSA Ohio Columbiana	9320	OH	029
		050	Mahoning			099
		078	Trumbull			155
310	CA	051	Yuba City, CA, MSA California Sutter	9340	CA	101
		058	Yuba			115
311	AZ	015	Yuma, AZ, MSA Arizona Yuma	9360	AZ	027



**TECHNICAL APPENDIX FROM**

**VITAL STATISTICS OF  
THE UNITED STATES**

**2003**

**NATALITY**

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

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

Hyattsville, Maryland: September 2005

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## **Introduction**

This Technical Appendix, published by the Centers for Disease Control and Prevention's National Center for Health Statistics (NCHS), is reprinted from "Vital Statistics of the United States, 2003, Volume I, Natality" [1]. Reference will be made to the "1999 Technical Appendix" for historical context and a more lengthy discussion of some variables, and the quality and completeness of the birth data [2]. This report supplements the "Technical Notes" section of "Births: Final data for 2003" [3] and is recommended for use with the public-use file for 2003 births, available on CD-ROM from NCHS [4], and the tabulated data of "Vital Statistics of the United States, 2003 Volume I, Natality" [1].

## **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 [5]. A slightly expanded definition of live birth was recommended by the 1992 revision of the Model State Vital Statistics Act and Regulations [6], based on recommendations of a 1988 working group formed by the American Academy of Pediatrics and the American College of Obstetricians and Gynecologists [7] and is consistent with that currently used by the WHO in the ICD-10 [8] and the United Nations:

"Live birth" means the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy, which, after such expulsion or extraction, 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. Heartbeats are to be distinguished from transient cardiac contractions; respirations are to be distinguished from fleeting respiratory efforts or gasps.

This definition distinguishes in precise terms a live birth from a fetal death [9]. Forty-eight registration areas use definitions of live births similar to this definition; five areas use a shortened definition; four have no formal definition of live birth. [10]. All States require the reporting of live births regardless of length of gestation or birth weight.

## **History of Birth-Registration Area**

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, and Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands (referred to as Northern Marianas). 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. Information on the history and development of the birth-registration area is available elsewhere [2].

## **Sources of Data**

### **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 consisting of individual records processed by the States, the District of Columbia, New York City, Puerto Rico, the Virgin Islands, American Samoa, and the Northern Marianas. NCHS receives these files from the registration offices of all States, the two cities and four territories through the Vital Statistics Cooperative Program. Information for Guam is obtained from paper copies of original birth certificates which is coded and keyed by NCHS. Data from American Samoa first became available in 1997; data from the Northern Marianas in 1998.

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 tabulation in this report. Data for Puerto Rico, the Virgin Islands, Guam, American Samoa, and the



Northern Marianas are limited to births registered in these areas.

### **Standard certificates of live birth**

The U.S. Standard Certificate of Live Birth, issued by the U.S. Department of Health and Human Services, has served for many years as the principal means for attaining uniformity in the content of the documents used to collect information on births in the United States. Every 10-15 years, the basic process of collecting birth and death information is revised. 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.

*2003 revision* — In 2003, a revised U.S. Standard Certificate of Live Birth was adopted, with initial implementation in two states (Pennsylvania and Washington). Full implementation in all States will be phased in over several years. The 2003 revision is described in detail in documents available on the Internet. [11,12].

There are numerous new items on the 2003 certificate (receipt of WIC food, receipt of fertility therapy, infections during pregnancy, maternal morbidity, breast feeding, etc.) and modifications of old items (ability to capture multiple race, levels of smoking, history of prenatal care, components of the Body Mass Index, onset of labor, etc.). A forthcoming report will present information on the new data items.

A key aspect of the 2003 Revision of the United States Standard Certificate has been the re-engineering in the data collection and transmission system. The intent of the re-engineering is to improve data quality, speed of data collection and transmission, and to enhance standardization of the 2003 Revision. This effort is described in a document [13] available on the Internet. Data will be obtained from two sources: the Mother's Worksheet and the Facility Worksheet. In the Mother's Worksheet, data are directly obtained from the mother and include such data as race, Hispanic origin, educational attainment, WIC participation, etc. In the Facility Worksheet, data are obtained directly from medical records of the mother and infant with items such as date of last menstrual period, risk factors, method of delivery, etc. To assist hospital staff in completing the Facility Worksheet, a comprehensive instruction manual was developed: *Guide to Completing the Facility Worksheets for the Certificate of Live Birth and Report of Fetal Death (2003 Revision)* [14].

It is expected that each state will employ software to conform to national standards in order to record, in electronic media, data gathered in either electronic or paper worksheets. A number of features are integral to this software. There are automatic edits at the time of data entry to permit immediate modification of data and tracking of modifications.

*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 checkboxes to obtain detailed medical and health information about the mother and child. Details of the nature and content of the 1989 revision are available in the Technical Appendix to the Natality file [2].

*The medical and health check boxes* -- Both the 1989 and 2003 Standard Certificates of Live Birth use a checkbox format for collecting much of the medical and health information available on the birth certificate. This information includes items on medical risk factors, obstetric procedures, complications of labor and/or delivery, abnormal conditions of the newborn, and congenital anomalies of the child. However, a number of individual checkbox items included on the 1989 certificate were dropped from the revised certificate in 2003. In addition, definitions for some items were modified for the 2003 revision resulting in data which are not comparable across revisions. Tables in the 2003 final natality report [3] are footnoted to identify reporting areas for the specific checkboxes: see tables 26-28, 36-37, 42, and 48-49.

## **The 2003 Natality Data File**

The 2003 data file consists of data items from the 1989 Revision of the U.S. Standard Certificate of Live Birth used by 48 states and the District of Columbia. It also includes considerable data from two States, Pennsylvania and Washington, which implemented the 2003 revision of the U.S. Standard Certificate of Live Birth. Where comparable, data from Pennsylvania and Washington are combined with data from the remaining 48 states and the District of Columbia. Where data for the 1989 and 2003 certificate revisions are not comparable (e.g., educational attainment of the mother), data

for Pennsylvania and Washington are excluded from the national totals for 2003.

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 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, significant discrepancies may result from differences between the enumeration method of obtaining population data and the registration method of obtaining vital statistics data.

The general rules used to classify live births by parental characteristics are set forth in “Vital Statistics Classification and Coding Instructions for Live Birth Records, 1999–2001,” *NCHS Instruction Manual*, Part 3a [15]. (Information in this manual is applicable to the 2003 data). This material is incorporated in the basic file layout on the CD-ROM [4]. The instruction materials are for States to use in coding the data items; they do not include any NCHS recodes. Therefore, the file layout is a better source of information on the code structure because it provides the exact codes and recodes that are available. Classification of certain important items is discussed in the following pages. Information on the completeness of reporting of birth certificate data is shown in table A, which presents a listing of items and the percentage of records that were not stated for each State, Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Northern Marianas.

### **Occurrence and residence**

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. Births to U.S. residents occurring outside this country are not included in tabulations by place of residence.

The total count of births for the United States by place of residence and by place of occurrence will not be 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 2003.

*Residence error*—A nationwide test of birth-registration completeness in 1950 provided measures of residence error for natality statistics. According to the 1950 test (which has not been repeated), 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 [16]. Recent experience demonstrates that this is still a concern based on anecdotal evidence from the States. 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 classified according 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 the 2003 file is given in two manuals, “Vital Records Geographic Classification, 2003,” and “Vital Records Geographic Classification, 2004. Federal Information Processing Standards (FIPS).” *NCHS Instruction Manual, Part 8*, [17] and [18]. The geographic code structure on the 2003 file is based on results of the 2000 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.

Details of the classification of births for metropolitan statistical areas, metropolitan and nonmetropolitan counties, and population size groups for cities and

urban places are presented elsewhere [2].

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

## **Demographic Characteristics**

### **Hispanic origin, and race**

*Hispanic origin*—Hispanic origin and race are reported independently on the birth certificate. Data for Hispanic subgroups are shown in most cases for four specific groups: Mexican, Puerto Rican, Cuban, Central and South American; and an additional subgroup: “Other and unknown Hispanic.” More specific Hispanic origin information for the “Other and unknown Hispanic” category is not available. 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. The category “white” comprises births reported as white and births where race, as distinguished from Hispanic origin, is reported as Hispanic. 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 (97 percent in 2003) are reported as white. In many of our 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. The percentage of birth records for which Hispanic origin of either parent was not reported in 2003 is shown by State in table A. A recode variable is available that provides cross tabulations of race by Hispanic origin.

The 1989 and 2003 revisions of the U.S. Standard Certificate of Live Births include items to identify the Hispanic origin of the parents. All 50 States, the District of Columbia, the Virgin Islands, and Guam reported Hispanic origin of the parents for 2003.

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 Hispanic origin of mother not stated (0.7 percent in 2003) were actually to Hispanic mothers [19]. The population with origin not stated was imputed. The effect on the rates is believed to be small. The percentage of birth records

for which Hispanic origin of either parent was not reported in 2003 is shown by State in table A.

*Single, Multiple and “Bridged” race of mother and father*—In 1997, the Office of Management and Budget (OMB) issued “Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity” which revised the “1977 Statistical Policy Directive 15, Race and Ethnic Standards for Federal Statistics and Administrative Reporting” [20,21,22]. These documents specify guidelines for collection, tabulation, and presentation of race and ethnicity data within the Federal statistical system. The 1997 revised standards incorporated two major changes designed to reflect the changing racial profile of the United States. First, the revision increased from four to five the minimum set of categories to be used by Federal agencies for identification of race. The 1977 standards required Federal agencies to report race-specific tabulations using a minimum set of four single-race categories: American Indian or Alaska Native (AIAN), Asian or Pacific Islander (API), Black, and White. The five categories for race specified in the 1997 standards are: American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, and White. The revised standards called for reporting of Asians separately from Native Hawaiians or Other Pacific Islanders. Collection of additional detail on race and ethnicity is permitted, as before, so long as the additional categories can be aggregated into the minimum categories. The revised standards also require Federal data collection programs to allow respondents to select *one or more race categories*.

For the 2000 decennial census, the U.S. Census Bureau collected race and ethnicity data in accordance with the 1997 revised standards. However, the National Vital Statistics System, which is based on data collected by the States, will not be fully compliant with the new standards until all of the States revise their birth certificates to reflect the new standards. Thus, beginning with the 2000 data year, the numerators (births) for birth rates are incompatible with the denominators (populations) (see “Population denominators”). In order to compute rates, it is necessary to “bridge” population data for multiple-race persons to single-race categories. This has been done for birth rates by race presented in this report. Once all States revise their birth registration systems to be compliant with the 1997 OMB standards, the use of “bridged”

populations can be discontinued.

Beginning with 2003 data year, multiple-race was reported by Pennsylvania and Washington, which used the 2003 revision of the U.S. Standard Certificate of Live Birth, as well as by California, Hawaii, Ohio (for births occurring in December only), and Utah, which used the 1989 revision of the U.S. Standard Certificate of Live Birth. These 6 States, which account for 20.7 percent of births in the U.S. in 2003, reported 2.5 percent of mothers as multiracial, with levels varying from 0.6 percent (Ohio) to 33.4 percent (Hawaii).

Data from the vital records of the remaining 44 States and the District of Columbia followed the 1977 OMB standards in which a single race is reported [20,21]. In addition, these areas also report the minimum set of four races as stipulated in the 1977 standards [20], compared with the minimum of five races for the 1997 [21] standards.

In order to provide uniformity and comparability of the data during the transition period, before multiple-race data are available for all reporting areas, it is necessary to “bridge” the responses of those who reported more than one race to a single-race. The bridging procedure for multiple-race mothers and fathers is based on the procedure used to bridge the multiracial population estimates (see “Population denominators”) [22,23]. Multiple-race is imputed to a single race (one of the following: AIAN, API, Black, or White) according to the combination of races, Hispanic origin, sex, and age indicated on the birth certificate of the mother or father. The imputation procedure is described in detail elsewhere [24,25].

As noted previously, the bridging procedure imputes multiple-race of mothers to one of the four minimum races stipulated in the 1977 OMB standards, that is, AIAN, API, Black, or White. Mothers of a specified Asian or Pacific Islander subgroup (that is, Chinese, Japanese, Hawaiian, or Filipino) in combination with another race (that is, AIAN, Black, and/or White) or another API subgroup cannot be imputed to a single API subgroup. API mothers are disproportionately represented in the 6 States reporting multiple-race (44 percent in 2003.) For the report “Births: Final Data for 2003”, data are not shown for the specified API subgroups because the bridging technique cannot be applied in this detail [3, 22, 23]. However, data for the API subgroups, reported alone or

in combination with other races and/or API subgroups, are available in the 2003 Natality public-use data file. In addition, a report on births in 2003 to multiple-race women, which will include births to single- and multiple-race women of the API subgroups, is forthcoming.

Race of mother is reported by 44 States and the District of Columbia in at least eight single-race categories: White, Black, American Indian or Alaska Native, Chinese, Japanese, Hawaiian, Filipino, and “other Asian or Pacific Islander” (API). Of these, 8 States (Illinois, Minnesota, Missouri, New Jersey, New York, Texas, Virginia, and West Virginia) report data on the expanded API subgroups included in the “other API category” (Asian Indian, Korean, Samoan, Vietnamese, Guamanian, and remaining API). Finally, 6 States which report multiple-race data (California, Hawaii, Ohio, Pennsylvania, Utah, and Washington) report a minimum of fourteen categories (White, Black, American Indian or Alaska Native, Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, other Asian, Hawaiian, Guamanian, Samoan, and other Pacific Islander). For this report, as discussed above, the multiple-race combinations (for example, White and AIAN or Black and Chinese) were bridged to one of four broad categories (bridged White, bridged Black, bridged AIAN, and bridged API). Detailed data on race (single or multiple) as reported in these six States are available on the 2003 natality public use file.

In 2003, race of mother was not reported for 0.5 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 2003.

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. The reasons for this change are summarized in the 1999 Technical Appendix [2]. Trend data by race shown in this report are by race of mother for all years beginning with the 1980 data year. Text references to white births and white mothers or black births and black mothers are used interchangeably for ease in writing.



### **Age of mother**

Beginning in 1989 a “Date of birth” item on the birth certificate replaced the “Age (at time of this birth)” item. 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 2003 age of mother was reported directly by five States (Kentucky, Nevada, North Dakota, Virginia, and Wyoming) and American Samoa. From 1964 to 1996, 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 imputed for ages 9 years or under and 55 years and over. 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 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. [2].

Age-specific birth rates are based on populations of women by age, prepared by the U.S. Census Bureau. 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. Census Bureau in *Current Population Reports*. The 2000 Census of Population derived age in completed years as of April 1, 2000, from responses to questions on age at last birthday and month and year of birth, with the latter given preference. In the 1960, 1970, 1980, and 1990 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 [26]. 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 [27].

*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, 2000, Volume 1, Natality” [28], which is available on the Internet at: <http://www.cdc.gov/nchs/datawh/statab/unpubd/natality/natab2000.htm>

*Not stated age or date of birth of mother*— In 2003 age of mother was not reported on 0.01 percent 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 *NCHS Instruction Manual*, Part 12, page 9) [29]. Editing procedures for 1963 and earlier years are described elsewhere [2].

### **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 in the “Not stated” category 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 on 13 percent of the birth certificates in 2003, one-quarter 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, not for frequency tabulations [3].

### **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 2003 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.” Editing procedures for live birth order are summarized elsewhere [2, 29].

*Not stated birth order*—All births tabulated in the “Not stated birth order” category are excluded from the computation of percentages. 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.

### **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. For the other States, marital status is inferred from information on the birth certificate. Beginning in 1997, the marital status of women giving birth in California and Nevada was determined by a direct question in the birth registration process. New York City also changed its procedures for inferring marital status in 1997. 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 2003, 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. Details of the changes in reporting procedures and the impact of the procedures on the data are described in previous reports [30, 31].

The mother's marital status was not reported in 2003 on 0.04 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 for these records. If status was unknown and the father's age was known, then the mother was considered married. If the status was unknown, and the father's age unknown, then the mother was considered unmarried. This represents a change from the procedures in effect for 2002 and previous years. Prior to 2003, marital status for records with marital status not reported was imputed as "married". Because of the small number of records affected (834 births in 2003), the change in imputation procedures had essentially no impact on measures of nonmarital births.

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.

### **Educational attainment**

National data on educational attainment are currently available only for the mother [2]. Beginning in 1995, NCHS discontinued collecting information on the educational attainment of the father.

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 "Not stated" category.

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 “Not stated” category includes all records 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 percentages.

The 2003 data in “Births: Final Data for 2003” [3] exclude information on mother’s educational attainment for Pennsylvania and Washington. The 1989 and 2003 certificate items on educational attainment are too dissimilar for these data to be reliably combined. The 1989 certificate item asks for the highest grade completed, whereas the 2003 certificate item asks for the highest degree or level of school completed (e.g., high school diploma, bachelor degree, etc.). See new educational attainment item in the 2003 US Standard Birth Certification [12]. The data for Pennsylvania and Washington are included on the public use file [4].

## **Maternal and Infant Health Characteristics**

### **Weight gain during pregnancy**

Weight gain is reported in pounds. A loss of weight is reported as zero gain. Computations of median weight gain were based on ungrouped data. This information is presented for 49 States and the District of Columbia. California did not report weight gain information.

The 1989 revision of the birth certificate included a question “weight gained during pregnancy \_\_\_\_ lbs.” Pennsylvania and Washington employed the new question from the 2003 Revised Certificate. The 2003 Revised Certificate asked for more detailed information on weight gain. It asked for both the pre-pregnancy weight of the mother and her weight at delivery. As well, it recorded her height. Thus the revised certificate has the information needed (height and pre-pregnancy weight) to calculate the Body Mass Index. Pennsylvania and Washington’s data from the revised certificate was combined with the data based on the 1989 revision to produce tabulations on median

weight gain and percent distributions of weight gain.

### **Medical risk factors for this pregnancy**

Sixteen medical risks which can affect pregnancy outcome are separately identified on the 1989 Certificate of Live Birth. 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. These risks and reporting areas are shown in table 26 of the 2003 natality final report [3].

Definitions 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 are available elsewhere [3]. Definitions of factors included in the 2003 revision are presented in the detailed guide for use in completing facility worksheets for the 2003 Revision [14].

### **Tobacco 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. Procedures for determining the consistency between smoking and/or drinking status and the quantity of cigarettes or drinks reported are described elsewhere [2].

Information on *whether or not the mother smoked* during pregnancy is available for all reporting areas except California, (figure 4-A). California did not report this item; Pennsylvania and Washington implemented the revised 2003 birth certificate which asks for the number of cigarettes smoked at different intervals before and during the pregnancy. In comparison, the 1989 standard certificate asked for “Tobacco use during pregnancy,” “yes/no,” and the average number of cigarettes per day with no specificity on timing during pregnancy. The areas reporting whether or not the mother smoked during pregnancy based on the 1989 question comprise 81 percent of U.S. births in 2003.

*Vermont* — The birth certificate in use in Vermont since 2000 includes the tobacco use questions that are on the 2003 revision of the birth certificate. The Vermont Health Department has translated the information collected to a format consistent with the 1989 question, and therefore Vermont data are included in the reporting area.

Data on the *number of cigarettes smoked daily* were available in a comparable

format for 44 states, the District of Columbia, and New York City. Indiana and New York State (except for New York City), Pennsylvania, South Dakota, and Washington reported the number of cigarettes smoked in a format that was not comparable with the 1989 revision of the U.S. Standard Certificate of Live Birth, used by other reporting areas. California did not collect this information. The areas reporting the number of cigarettes smoked comprised 76 percent of U.S. births in 2003.

### **Alcohol use during pregnancy**

Alcohol use during pregnancy is a major, independent risk factor and it is implicated as well in delayed infant and child development [32, 33].

Data on alcohol use are not collected on the birth certificates of California, Pennsylvania or Washington. The areas reporting alcohol use accounted for 81 percent of U.S. births in 2003.

Unfortunately, alcohol use is substantially underreported on the birth certificate, compared with data collected in nationally representative surveys of pregnant women. Only 0.7 percent of women giving birth in 2003 reported alcohol use during pregnancy, down from 0.8 percent in 2002 for the same reporting area (data for 2003 shown in the 2003 natality final report [3] tables 24 and 25).

The birth certificate question on alcohol use from the 1989 revision is evidently not sensitive enough to measure this behavior accurately. The question's wording as well as the lack of specific time reference for the birth certificate questions are probable factors contributing to the underreporting. In addition, the stigma of maternal alcohol use likely contributes to the underreporting [34, 35].

### **Prenatal care**

*Month of pregnancy prenatal care began* — Information on prenatal care is collected by all reporting areas. However, the questions on the 1989 and 2003 revisions differ substantially, as do the likely sources of the data. Thus, tabulations of prenatal care in “Births: Final Data for 2003” [3] exclude data for Pennsylvania and Washington. Data for the latter two States are available on the public use data file [4]. In the 2003 revision, the timing of the prenatal care item was modified to “Date of first prenatal visit” from “Month prenatal care began.” In addition, the 2003 revision process resulted in the recommendation that information on prenatal care be gathered from the prenatal care or

medical records whereas the 1989 revision did not recommend a source for this data. See tables 24, 25, 33-35 in the 2003 natality final report [3].

If 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 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. Percentage distributions and the median number of prenatal visits exclude births to mothers who had no prenatal care. See table 35 in the 2003 natality final report [3].

### **Obstetric procedures**

This item includes six specific obstetric procedures on the 1989 revision of the birth certificate in use by 48 states and the District of Columbia in 2003. Table 36 of the 2003 natality final report [3] provides data for the six procedures and the reporting areas for each item. Birth records with “Obstetric procedures” left blank are considered not stated. Definitions 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, are available elsewhere [3]. Additional definitions are included in the detailed facility worksheet guide [14].

### **Complications of labor and of delivery**

The checkbox format allows for the selection of 15 specific complications on the 1989 revised certificate, and for the designation of more than one complication where appropriate. The complication rates for each procedure and the respective reporting area are given in table 37 in the 2003 natality final report [3]. A choice of “None” is also included. Accordingly, if the item is not completed, it is classified as not stated. Definitions adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials are available elsewhere [3]. Here, too, see the detailed facility worksheet guide [14].



### **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. 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. Additional information on these items is presented elsewhere [2].

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. The "Not in hospital" category includes births for which no information is reported on place of birth.

In 2000 Illinois started collecting data on certified nurse-midwives (CNM) and making corrections for "Other midwife" and "Other" categories. Data for earlier years were incomplete for Illinois births. As a result, the number of CNMs has significantly increased while the number of "Other midwife" deliveries has sharply decreased compared to earlier years.

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.

### **Method of delivery**

The 1989 Revision of the Live Birth Certificate contains a checkbox for method of delivery. 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 2003 this information was collected from the *two* revisions of birth certificates of all States and the District of Columbia.

Despite substantive changes between the 1989 and 2003 revisions of the birth certificate to the method of delivery item, data for revised and unrevised states are combined for all national figures given. The total numbers and percents of vaginal and cesarean deliveries appear to be very consistent between revisions. However, information on whether the delivery is a VBAC, primary cesarean, or repeat cesarean appears to be less comparable. This is because of wording and formatting changes designed to collect data on whether the mother had a previous cesarean delivery. The new format includes a direct question on whether the mother had had a previous cesarean delivery whereas the old did not. In brief, revised data for Pennsylvania and Washington show higher- than- expected VBAC and primary cesarean rates, and lower- than- expected repeat cesarean rates. These slight incongruities for Pennsylvania and Washington data have no appreciable impact on national rates and are included in national figures shown for 2003. However, measures which incorporate these data to compare changes across revisions for individual States should be interpreted with caution.

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 VBAC delivery rate 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 are computed for first births because the rates are computed based on previous pregnancies, not just live births.

### **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. LMP measurement is subject to error for several reasons, including imperfect maternal recall or misidentification of the LMP because of post-conception bleeding, delayed ovulation, or intervening early miscarriage.

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, post-term. These distinctions are according to the ICD–9 and ICD–10 [8] definitions.

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. The imputation procedure and its effect on the data are described elsewhere [2,36]. But reporting problems for this item persist and may occur more frequently among some subpopulations and among births with shorter gestations. Changes in reporting of this measure over time have apparently affected trends in preterm birth rates, particularly by race [37].

The 1989 revision of 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 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 procedures are described in the *NCHS Instruction Manual*, Part 12, pp. 33-35 [29]. It is used by all states except California. The clinical estimate was also used if the LMP date was not reported.

The period of gestation for 4.6 percent of the births in 2003 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 247 births or 0.006 percent of all birth records in 2003. The levels of the

adjustments in 2003 data were similar to those for earlier years [38]. Despite these edits, substantial incongruities in these data persist; research is ongoing to address these data deficiencies.

### **Birthweight**

In some areas birthweight is reported 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 *International Classification of Diseases, Ninth Revision (ICD–9)* and remain the same for the *International Classification of Diseases, Tenth Revision (ICD–10)* [8]. 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  
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

ICD–9 and ICD–10 define 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 *International Lists of Diseases and Causes of Death, Sixth Revision*.

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 birth weights are not reported are excluded from the computation of percentages

and medians.

### **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 concerns about the potential survival and subsequent health of the infant. Beginning in 1995, NCHS collected information only 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 77.5 percent of all births in the United States in 2003. California and Texas did not collect information on Apgar scores on their birth certificates.

### **Plurality**

In this file plurality is classified as single, twin, triplet, quadruplet, and quintuplet and higher order. Records for which plurality is unknown are imputed as singletons. This occurred for 0.002 percent of all records for 2003. Each record in the natality file represents an individual birth. For example, a record coded as a twin represents one birth in a twin delivery. Pairs or sets of twins or higher order multiple births are not identified in this file. The Matched Multiple Birth File 1995-2000 includes information on sets of twin, triplet and quadruplets, thus allowing for the analysis of characteristics of sets of births and fetal deaths in multiple deliveries.

### **Abnormal conditions of the newborn**

This item provides information on eight specific abnormal conditions included in the 1989 revised birth certificate. 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. Rates for abnormal conditions of the newborn, as well as reporting areas for each condition, are given in table 48 of the report: "Births: Final Data for 2003" [3].

Definitions adapted and abbreviated from a set of definitions compiled by a

committee of Federal and State health statistics are available elsewhere [3]. Again, see the detailed facility worksheet guide [14].

### **Congenital anomalies of the child**

The data provided in this item relate to 21 specific anomalies or anomaly groups collected on the 1989 revised birth certificate. The checkbox format allows for the identification of more than one anomaly including a choice of “None” should no anomalies be evident. The “not stated” category includes birth records for which the item is not completed.

It is well documented that congenital anomalies, except for the most visible and most severe, are incompletely reported on birth certificates [39]. The completeness of reporting specific anomalies depends on how easily they are recognized in the short time between birth and birth-registration. Table 49 of the 2003 natality final report [3] provides rates for each anomaly (or anomaly group) as well as describing the respective reporting area. Definitions adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials are available elsewhere [3]. Also, see the detailed facility worksheet guide [14].

### **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**

It is estimated that more than 99 percent of all births occurring in the United States in 2003 were registered. These estimates are based on the results of a national

1964–68 test of birth-registration completeness according to place of delivery (in or out of hospital) and race (white and non-white). This test has not been conducted more recently. A detailed discussion of the method and results of the 1964–68 birth-registration test is available [40]. Information on procedures for adjusting births for underregistration (for cohort fertility tables) is presented elsewhere [2].

### **Completeness of reporting**

Interpretation of these data must include evaluation of item completeness. The “Not stated” percentage is one measure of the quality of the data. Completeness of reporting varies among items and States. See table A for the percentage of birth records on which specified items were not stated. Data users should note that levels of incomplete or inaccurate reporting for some of the items are quite high in some States. The 2003 data for Alaska and Rhode Island are of particular concern.

### **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 reviews 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 the review and analysis of differences between 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. NCHS investigates all differences that are judged to have consequences for quality and completeness. In the review process, statistical tests are used to call initial attention to differences for possible followup. 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 are transmitted to NCHS in the same manner as for those corrections identified by the registration area.

## **Computation of Rates and Other Measures**

### **Population bases**

*Estimation by age, sex, race and Hispanic origin*—Birth and fertility rates for 2003 shown in tables 1, 3–6, 8, 9, 13, 14, A, B, and C in the report: “Births: Final Data for 2003” [3] are 2000 census-based post-censal estimates, as of July 1, 2003. These populations are shown in tables 4-2 and 4-3. The population estimates have been provided by the U.S. Census Bureau [41] and are based on the 2000 census counts by age, sex, race, and Hispanic origin, which have been modified to be consistent with Office of Management and Budget racial categories as of 1977 and historical categories for birth data. The modification procedures are described in detail elsewhere [22, 23, 42].

Birth and fertility rates by State shown in table 10 of the report: “Births: Final Data for 2003” [3] use 2000 census-based State-level post-censal population estimates provided by the U.S. Census Bureau [41]. 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 of the 2003 natality final report [3] are based on monthly population estimates also based on the 2003 estimates. Rates for unmarried women shown in tables 17 and 18 of the 2003 natality final report [3] are based on distributions of the population by marital status as of March 2003 as reported by the U.S. Census Bureau in the March Current Population Survey (CPS) [43], which have been adjusted to July 2003 population levels [41] by the Division of Vital Statistics, NCHS [3,31]. Birth and fertility rates for the Hispanic population, shown in tables 6, 8, 9, and 14 of the 2003 natality final report [3], are based on estimates of the total Hispanic population as of July 1, 2003 [41]. Rates for Hispanic subgroups are based on special population estimates that are presented in table 4-3. Information about allocation to Hispanic subgroups is presented elsewhere [41, 44].

The populations by race used in this report were produced under a collaborative arrangement with the U.S. Census Bureau and are 2000 census-based post-censal estimates. Reflecting the new guidelines issued in 1997 by the Office of Management and Budget (OMB), the 2000 census included an option for individuals to report more than one race as appropriate for themselves and household members [21]. In addition,



the 1997 OMB guidelines called for reporting of Asian persons separately from Native Hawaiians or other Pacific Islanders. In the earlier 1977 OMB guidelines, data for Asian or Pacific Islander persons were collected as a single group [20]. Except for six States, birth certificates currently report only one race for each parent in the categories specified in the 1977 OMB guidelines (see “Hispanic origin, race and national origin”). In addition, birth certificate data do not report Asians separately from Native Hawaiians or other Pacific Islanders. Thus, birth certificate data by race (the numerators for birth and fertility rates) currently are incompatible with the population data collected in the 2000 census (the denominators for the rates).

To produce birth and fertility rates for 1991 through 2003, it was necessary to “bridge” the population data for multiple race persons back to single race categories. In addition, the post-censal estimates were modified to be consistent with the 1977 OMB racial categories, that is, to report the data for Asian persons and Native Hawaiians or other Pacific Islanders as a combined category Asian or Pacific Islanders [45, 46]. The procedures used to produce the “bridged” populations are described in separate publications [22, 23]. Beginning with births occurring in 2003, several States began reporting multiple race data. Once all States revise their birth certificates to be compliant with the 1997 OMB standards, the use of “bridged” populations can be discontinued.

Populations used to calculate the rates for 1991–99 are based on population estimates as of July 1 of each year and were produced by the U.S. Census Bureau, with support from the National Cancer Institute [22, 41, 46, 47] These intercensal population estimates for 1991–99 are revised based on the April 1, 2000 Census. The rates for 1990 and 2000 are based on populations from the censuses in those years as of April 1.

Readers should keep in mind that the population data used to compile birth and fertility rates by race and ethnicity shown in this report are based on special estimation procedures, and are not actual counts. This is the case even for the 2000 populations that are based on the 2000 census. As a result, the estimation procedures used to develop these populations may contain some errors. Smaller populations, for example, American Indians, are likely to be affected much more than larger populations by potential measurement error [22]. While the nature and magnitude of error is unknown, the potential for error should be kept in mind when evaluating trends and differentials.

As more accurate information becomes available, further revisions of the estimates may be necessary. Additional information on the revised populations is available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm> .

*Residential population base*— Birth rates for the United States, individual States, and metropolitan areas are based on the total resident populations of the respective areas (table 4-4). Except as noted these populations exclude the Armed Forces abroad but include the Armed Forces stationed in each area. The residential population of the birth- and death-registration States for 1900–1932 and for the United States for 1900–2003 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. A detailed discussion of historical population bases is presented elsewhere [2].

*Small populations as denominators*— An asterisk (\*) is shown in place of any derived rate based on fewer than 20 births in the numerator, or a population denominator of less than 50 (unweighted) for decennial years and 75,000 (weighted) for all other years for the Hispanic subgroups. Rates based on populations below these minimum levels lack sufficient reliability for analytic purposes.

*Net census undercounts and overcounts*— Studies conducted by the U.S. Census Bureau indicate that some age, race, and sex groups are more completely enumerated than others. Census miscounts can have consequences for vital statistics measures. For example, an adjustment to increase the population denominator would result in a smaller rate compared to the unadjusted rate. A more detailed discussion of census undercounts and overcounts can be found in the “1999 Technical Appendix” [2]. Adjusted rates for 2000 can be computed by multiplying the reported rates by ratios from the 2000 census-level population adjusted for the estimated age-specific census over- and undercounts, which are shown in table E.

### **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. Census Bureau and have been expanded to include data

for the two major racial groups. Heuser [48] has prepared a detailed description of the methods used in deriving these measures as well as more detailed data for earlier years. The series of cohort fertility tables is currently being revised to incorporate rates for black women and the revised intercensal population estimates of the 1990s. Tables for the most currently-available years are available at <http://www.cdc.gov/nchs/dataawh/statab/unpubd/natality/natab99.htm> .

*Parity distribution*—The percentage distribution of women by parity (number of children ever born alive to mother) is derived from cumulative birth rates by order of birth. The percentage of 0-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 percentage 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 rates**

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 is the same number of women in each age group. The rate of 2,043 in 2003, 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 2003, they would have a total of 2,043 children by the time they reached the end of the reproductive period (taken here to be age 50 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 [49]. This method, 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 negligible.

### **Computations of percentages, percentage 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 percentages, percentage distributions, and medians were computed. The percentage 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. An asterisk is shown in place of any derived statistic based on fewer than 20 births in the numerator or denominator.

## Computation of Measures of Variability

### **Random variation and significance testing for natality data**

This detailed discussion of random variation and significance testing for natality data is similar to that in the “Technical Notes” of “Births: Final data for 2003” [3]. 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 (that is, for the comparison of numbers, rates, and percents over time, for different areas, or between different groups), the number of events that *actually* occurred can be thought of as one outcome in a large series of possible results that *could have* occurred under the same (or similar) circumstances. When considered in this way, the number of births is subject to random variation and a probable range of values 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 the same (or similar) circumstances.

Confidence limits for numbers, rates, and percents can be estimated from the actual number of vital 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.

When the number of vital events is large, the distribution is assumed to follow a normal distribution (where the relative standard error is small). When the number of events is small and the probability of the event is small, the distribution is assumed to follow a Poisson probability distribution. Considerable caution should be observed in interpreting the occurrence of infrequent events.

*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 [50]. Confidence limits are estimated using the following formulas:

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

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

where:

$B$  = number of births

$L$  = the value in table C that corresponds to the number  $B$

$U$  = the value in table C 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:

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

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

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 approximate a normal distribution.

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:

$B$  = 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 fall 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 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. (See, however, earlier discussion of population denominators in the section on “population bases”.)

*95-percent confidence limits for rates based on fewer than 100 events* — As stated earlier, when the number of events in the numerator is less than 20 (or the population denominator is less than 50 for decennial years and 75,000 for all other years for an estimated subgroups), an asterisk (\*) is shown in place of the rate because there were too few births or the population is too small to compute a statistically reliable rate. When the number of events in the numerator is greater than 20 but less than 100 (and the population denominator for the subgroups is above the minimum), the confidence interval for a rate can be estimated using the two formulas which follow and the values in table C

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

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

where:

$R$  = birth rate

$L$  = the value in table C that corresponds to the number of events  $B$

$U$  = the value in table C that corresponds to the number of events  $B$

Example

Suppose that the first birth rate for American Indian women 40-44 years of age was 0.50 per thousand, based on 47 births in the numerator. Using table C:

$$\begin{aligned}\text{Lower limit} &= 0.50 \times 0.73476 \\ &= 0.37\end{aligned}$$

$$\begin{aligned}\text{Upper limit} &= 0.50 \times 1.32979 \\ &= 0.66\end{aligned}$$

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 would be between 0.37 and 0.66.

*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:*

$$\text{Lower limit} = R - \left(1.96 \times \left(R / \sqrt{B}\right)\right)$$

$$\text{Upper limit} = R + \left(1.96 \times \left(R / \sqrt{B}\right)\right)$$

where:

$R$  = birth rate

$B$  = number of births

Example

Suppose that 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:

$$\begin{aligned}\text{Lower limit} &= 1.55 - \left(1.96 \times \left(1.55 / \sqrt{14,108}\right)\right) \\ &= 1.55 - 0.026 \\ &= 1.52\end{aligned}$$



$$\begin{aligned}
\text{Upper limit} &= 1.55 + \left(1.96 \times \left(1.55 / \sqrt{14,108}\right)\right) \\
&= 1.55 + 0.026 \\
&= 1.58
\end{aligned}$$

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 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:

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

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:

$$\text{Lower limit} = p - \left(1.96 \cdot \left(\sqrt{p \cdot q / B}\right)\right)$$

$$\text{Upper limit} = p + \left(1.96 \cdot \left(\sqrt{p \cdot q / B}\right)\right)$$

where:

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

Example

Suppose that the percent of births to Hispanic women in Arizona that were to unmarried women was 49.7 percent. This was based on 14,751 births in the numerator and 29,682 births in the denominator. First we test to make sure we can use the normal approximation of the binomial:

$$\begin{aligned}
 29,682 \times 0.497 &= 14,752 \\
 29,682 \times (1 - 0.497) &= 29,682 \times 0.503 = 14,930
 \end{aligned}$$

Both 14,752 and 14,930 are greater than 5 so we can proceed. The 95-percent confidence interval would be:

$$\begin{aligned}
 \text{Lower limit} &= 0.497 - \left(1.96 \cdot \left(\sqrt{0.497 \cdot 0.503 / 29,682}\right)\right) \\
 &= 0.497 - 0.006 \\
 &= 0.491 \text{ or } 49.1 \text{ percent} \\
 \\ 
 \text{Upper limit} &= 0.497 + \left(1.96 \cdot \left(\sqrt{0.497 \cdot 0.503 / 29,682}\right)\right) \\
 &= 0.497 + 0.006 \\
 &= 0.503 \text{ or } 50.3 \text{ percent}
 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual percent of births to unmarried Hispanic women in Arizona is between 49.1 and 50.3 percent.

*Significance testing when one or both 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

Suppose that the first birth rate for American Indian women 40-44 years of age was 0.70 per 1,000 in year X and 0.57 in year Y. Is the rate for year X significantly higher than the rate for year Y? The two rates are based on 63 events in year X and 54 events in year Y. Both rates are based on fewer than 100 events; therefore, the first step is to compute the confidence intervals for both rates.

	Lower Limit	Upper Limit
Year X	0.54	0.90
Year Y	0.43	0.74

These two confidence intervals overlap. Therefore, the first birth rate for American women 40-44 in year X is not significantly higher (at the 95-percent confidence level) than the rate in year Y.

This method of comparing confidence intervals is a conservative test for statistical significance. That is, the difference between two rates may, in fact, be statistically significant even though confidence intervals for the two rates overlap [51]. Thus, caution should be observed when interpreting a non-significant difference between two rates, especially when the lower and upper limits being compared overlap only slightly.

*Significance testing when 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, irrespective of sign (+/-), 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.

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

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 or equal** to 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  $1.55 - 1.08 = 0.47$ . The statistic is then calculated as follows:

$$\begin{aligned}
 &= 1.96 \times \sqrt{\frac{1.08^2}{1,535} + \frac{1.55^2}{14,108}} \\
 &= 1.96 \times \sqrt{\left(\frac{1.166}{1,535}\right) + \left(\frac{2.403}{14,108}\right)} \\
 &= 1.96 \times \sqrt{0.00076 + 0.00017} \\
 &= 1.96 \times \sqrt{0.00093} \\
 &= 1.96 \times 0.03 \\
 &= 0.06
 \end{aligned}$$

The difference between the rates (0.47) is greater than this statistic (0.06). Therefore, the difference is statistically significant at the 95-percent confidence level.

*Significance 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 is greater than the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two percents.

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

where:

$B_1$  = number of births in the denominator of the first percent  
 $B_2$  = number of births in the denominator of the second percent

$p$  =  $\frac{B_1 \times p_1 + B_2 \times p_2}{B_1 + B_2}$   
 $p_1$  = the first percent divided by 100  
 $p_2$  = the second percent divided by 100

### Example

Is the percent of births to Hispanic women that were to unmarried women higher in New Mexico (50.2) than in Arizona (49.7)? Suppose that the number in the denominator was 13,714 in New Mexico and 29,682 in Arizona. The necessary conditions are met for both percents (calculations not shown). The difference between the two percents is  $0.502 - 0.497 = 0.005$ . The statistic is then calculated as follows:

$$\begin{aligned} & 1.96 \times \sqrt{0.499 \times (0.501) \times (0.000106609)} \\ & = 1.96 \times \sqrt{0.000026652} \\ & = 1.96 \times 0.005162563 \\ & = 0.010 \end{aligned}$$

The difference between the percents (0.005) is less than this statistic (0.010). Therefore, the difference is not statistically significant at the 95-percent confidence level.

## Random variation and significance testing for population subgroups

This section presents information relevant to Hispanic subgroups (or generally speaking, any subgroup of the population for which survey data has been used for estimation of the denominator.) Birth and fertility rates for Mexicans, Puerto Ricans, Cubans, and “Other” Hispanic subgroups for 2003 are shown in tables 6, 8, 9, and 14 of 2003 natality final report [3] and in tables 1-4 and 1-12 of “Vital Statistics of the United States, 2003, Part 1, Natality” (in preparation). Population estimates for Hispanic subgroups are derived from the U.S. Census Bureau’s *Current Population Survey* (CPS) and adjusted to resident population control totals as shown in table 4-3 [41,44]. As a result, the rates are subject to the variability of the denominator as well as the numerator. For these Hispanic subgroups (but not for all origin, total Hispanic, total non-Hispanic, non-Hispanic white, or non-Hispanic black populations), the following formulas are used for testing statistical significance in trends and differences:

*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,

$$\text{Lower limit} = R - 1.96 * R * \sqrt{\left(\frac{1}{B}\right) + f\left(a + \frac{b}{P}\right)}$$

$$\text{Upper limit} = R + 1.96 * R * \sqrt{\left(\frac{1}{B}\right) + f\left(a + \frac{b}{P}\right)}$$

where:

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

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

$f$  = the factor which depends on whether an entire or a sampled population (like one from a Current Population Survey – CPS) is used, and the span of years represented.  $f$  equals 0.670 for a single year

$a$  and  $b$  are single year averages of the 2002 and 2003 CPS standard error parameters [52, 53]

$a$  = -0.000096

$b$  = 3,809

$P$  = total estimated population upon which rate is based

### Example

Suppose that the fertility rate of Cuban women 15–44 years of age was 51.2 per 1,000 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:

$$\begin{aligned}\text{Lower limit} &= 51.2 - 1.96 * 51.2 * \sqrt{\left(\frac{1}{13,088}\right) + 0.670 * \left[-0.000096 + \left(\frac{3,809}{255,399}\right)\right]} \\ &= 51.2 - 1.96 * 51.2 * \sqrt{0.000076406 + (0.670 * 0.014914)} \\ &= 51.2 - 1.96 * 51.2 * \sqrt{0.01000475} \\ &= 51.2 - 1.96 * 51.2 * 0.100024 \\ &= 41.16\end{aligned}$$

$$\begin{aligned}\text{Upper limit} &= 51.2 + 1.96 * 51.2 * \sqrt{\left(\frac{1}{13,088}\right) + 0.670 * \left[-0.000096 + \left(\frac{3,809}{255,399}\right)\right]} \\ &= 51.2 + 1.96 * 51.2 * \sqrt{0.000076406 + (0.670 * 0.014914)} \\ &= 51.2 + 1.96 * 51.2 * \sqrt{0.01000475} \\ &= 51.2 + 1.96 * 51.2 * 0.100024 \\ &= 61.24\end{aligned}$$

This means that the chances are 95 out of 100 that the actual fertility rate of Cuban women 15–44 years of age is between 41.16 and 61.24.

*Approximate 95-percent confidence interval: less than 100 births --* 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 that follow and the values in table C.

For crude and age-specific birth rates,

$$\text{Lower limit} = R * L(1 - \alpha = .96, B) * \left(1 - 2.576 \sqrt{f\left(a + \frac{b}{P}\right)}\right)$$

$$\text{Upper limit} = R * U(1 - \alpha = .96, B) * \left(1 + 2.576 \sqrt{f\left(a + \frac{b}{P}\right)}\right)$$

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

$f$  = the factor which depends on whether an entire or a sampled population (like one from a Current Population Survey – CPS) is used, and the span of years represented.  $f$  equals 0.670 for a single year

$a$  and  $b$  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 the rate is based

NOTE: In the formulas above, the confidence limits are estimated from the non-sampling 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.

#### Example

Suppose that the birth rate of Puerto Rican women 45–49 years of age was 0.4 per 1,000, 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:

$$\begin{aligned} \text{Lower limit} &= 0.4 * 0.68419 * \left( 1 - 2.576 \sqrt{0.670 \left( -0.000096 + \left( \frac{3,809}{87,892} \right) \right)} \right) \\ &= 0.4 * 0.68419 * \left( 1 - 2.576 \sqrt{0.028972} \right) \\ &= 0.4 * 0.68419 * (1 - (2.576 * 0.170211)) \\ &= 0.4 * 0.68419 * 0.561536 \\ &= 0.154 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= 0.4 * 1.41047 * \left( 1 + 2.576 \sqrt{0.670 \left( -0.000096 + \left( \frac{3,809}{87,892} \right) \right)} \right) \\ &= 0.4 * 1.41047 * \left( 1 + 2.576 \sqrt{0.028972} \right) \\ &= 0.4 * 1.41047 * (1 + (2.576 * 0.170211)) \\ &= 0.4 * 1.41047 * 1.438464 \\ &= 0.812 \end{aligned}$$



This means that the chances are 95 out of 100 that the actual birth rate of Puerto Rican women 45–49 years of age lies between 0.15 and 0.81.

*Significance testing for subgroups* -- When both rates are based on 100 or more events, the difference between the two rates is considered statistically significant if it exceeds the value given by the formula below. This statistic equals 1.96 times the standard error for the difference between two rates.

$$z = 1.96 * \sqrt{R_1^2 * \left[ \left( \frac{1}{B_1} \right) + f \left( a + \frac{b}{P_1} \right) \right] + R_2^2 * \left[ \left( \frac{1}{B_2} \right) + f \left( a + \frac{b}{P_2} \right) \right]}$$

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 would therefore conclude that the difference is not statistically significant at the 95-percent confidence level.

### Example

Suppose the birth rate for Mexican mothers 15–19 years of age ( $R_1$ ) is 94.5, based on 97,744 births and an estimated population of 1,033,878, and the birth rate for Puerto Rican mothers 15–19 years of age ( $R_2$ ) is 61.4, based on 10,006 births and an estimated population of 162,899. Using the above formula, the z score is computed as follows:

$$\begin{aligned} &= 1.96 * \sqrt{94.5^2 * \left[ \left( \frac{1}{97,744} \right) + 0.670 \left( -0.000096 + \frac{3,809}{1,033,878} \right) \right] + 61.4^2 * \left[ \left( \frac{1}{10,006} \right) + 0.670 \left( -0.000096 + \frac{3,809}{162,899} \right) \right]} \\ &= 1.96 * \sqrt{8930.25 * (0.000010231 + 0.670 * 0.003589) + 3769.96(0.00009994 + 0.670 * 0.023287)} \\ &= 1.96 * \sqrt{(8930.25 * 0.0024147) + (3769.96 * 0.015702)} \\ &= 1.96 * \sqrt{21.563 + 59.20} \\ &= 1.96 * 8.99 \\ &= 17.61 \end{aligned}$$

Since the difference between the two rates 33.1 is greater than the value above, the two rates are statistically significantly different at the 0.05 level of significance.

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**Figure 4–A. U.S. Standard Certificate of Live Birth: 1989 Revision**

TYPE/PRINT IN PERMANENT BLACK INK FOR INSTRUCTIONS SEE HANDBOOK		U.S. STANDARD CERTIFICATE OF LIVE BIRTH			BIRTH NUMBER
LOCAL FILE NUMBER					M
<b>CHILD</b>	1. CHILD'S NAME (First, Middle, Last)		2. DATE OF BIRTH (Month, Day, Year)		3. TIME OF BIRTH
	4. SEX	5. CITY, TOWN, OR LOCATION OF BIRTH		6. COUNTY OF BIRTH	
7. PLACE OF BIRTH: <input type="checkbox"/> Hospital <input type="checkbox"/> Freestanding Birthing Center <input type="checkbox"/> Clinic/Doctor's Office <input type="checkbox"/> Residence <input type="checkbox"/> Other (Specify) _____			8. FACILITY NAME (If not institution, give street and number)		
<b>CERTIFIER/ ATTENDANT</b>	9. I certify that this child was born alive at the place and time and on the date stated.  Signature ▶		10. DATE SIGNED (Month, Day, Year)		11. ATTENDANT'S NAME AND TITLE (If other than certifier) (Type/Print) Name _____ <input type="checkbox"/> M.D. <input type="checkbox"/> D.O. <input type="checkbox"/> C.N.M. <input type="checkbox"/> Other Midwife <input type="checkbox"/> Other (Specify) _____
	12. CERTIFIER'S NAME AND TITLE (Type/Print) Name _____ <input type="checkbox"/> M.D. <input type="checkbox"/> D.O. <input type="checkbox"/> Hospital Admin. <input type="checkbox"/> C.N.M. <input type="checkbox"/> Other Midwife <input type="checkbox"/> Other (Specify) _____			13. ATTENDANT'S MAILING ADDRESS (Street and Number or Rural Route Number, City or Town, State, Zip Code)	
DEATH UNDER ONE YEAR OF AGE Enter State File Number of death certificate for this child		14. REGISTRAR'S SIGNATURE ▶		15. DATE FILED BY REGISTRAR (Month, Day, Year)	
<b>MOTHER</b>	16a. MOTHER'S NAME (First, Middle, Last)		16b. MAIDEN SURNAME		17. DATE OF BIRTH (Month, Day, Year)
	18. BIRTHPLACE (State or Foreign Country)		19a. RESIDENCE—STATE		19b. COUNTY
	19c. CITY, TOWN, OR LOCATION		19d. STREET AND NUMBER		
		19e. INSIDE CITY LIMITS? (Yes or no)		20. MOTHER'S MAILING ADDRESS (If same as residence, enter Zip Code only)	
<b>FATHER</b>	21. FATHER'S NAME (First, Middle, Last)		22. DATE OF BIRTH (Month, Day, Year)		23. BIRTHPLACE (State or Foreign Country)
<b>INFORMANT</b>	24. I certify that the personal information provided on this certificate is correct to the best of my knowledge and belief. Signature of Parent or Other Informant ▶				

Figure 4-A. U.S. Standard Certificate of Live Birth: 1989 Revision - Con.

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

<b>25. OF HISPANIC ORIGIN?</b> (Specify No or Yes—If yes, specify Cuban, Mexican, Puerto Rican, etc.) 25a. <input type="checkbox"/> No <input type="checkbox"/> Yes Specify: _____		<b>26. RACE</b> —American Indian, Black, White, etc. (Specify below) 26a. _____		<b>27. EDUCATION</b> (Specify only highest grade completed) Elementary/Secondary (0-12)   College (1-4 or 5+)	
<b>25b.</b> No <input type="checkbox"/> Yes <input type="checkbox"/> Specify: _____		<b>26b.</b> _____		<b>27a.</b> _____	
<b>28. PREGNANCY HISTORY</b> (Complete each section)		<b>29. MOTHER MARRIED?</b> (At birth, conception, or any time between) (Yes or no)		<b>30. DATE LAST NORMAL MENSES BEGAN</b> (Month, Day, Year)	
<b>LIVE BIRTHS</b> (Do not include this child)		<b>OTHER TERMINATIONS</b> (Spontaneous and induced at any time after conception)		<b>31. MONTH OF PREGNANCY PRENATAL CARE BEGAN</b> —First, Second, Third, etc. (Specify)	
<b>28a. Now Living</b> Number _____ <input type="checkbox"/> None		<b>28b. Now Dead</b> Number _____ <input type="checkbox"/> None		<b>32. PRENATAL VISITS</b> —Total Number (If none, so state)	
<b>28c. DATE OF LAST LIVE BIRTH</b> (Month, Year)		<b>28d. DATE OF LAST OTHER TERMINATION</b> (Month, Year)		<b>33. BIRTH WEIGHT</b> (Specify unit)	
<b>36. APGAR SCORE</b> 36a. 1 Minute 36b. 5 Minutes		<b>37a. MOTHER TRANSFERRED PRIOR TO DELIVERY?</b> <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, enter name of facility transferred from: _____		<b>34. CLINICAL ESTIMATE OF GESTATION</b> (Weeks)	
<b>37b. INFANT TRANSFERRED?</b> <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, enter name of facility transferred to: _____		<b>35a. PLURALITY</b> —Single, Twin, Triplet, etc. (Specify)		<b>35b. IF NOT SINGLE BIRTH</b> —Born First, Second, Third, etc. (Specify)	
<b>38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY</b> (Check all that apply)		<b>40. COMPLICATIONS OF LABOR AND/OR DELIVERY</b> (Check all that apply)		<b>43. CONGENITAL ANOMALIES OF CHILD</b> (Check all that apply)	
Anemia (Hct. <30/Hgb. <10) ..... 01 <input type="checkbox"/> Cardiac disease ..... 02 <input type="checkbox"/> Acute or chronic lung disease ..... 03 <input type="checkbox"/> Diabetes ..... 04 <input type="checkbox"/> Genital herpes ..... 05 <input type="checkbox"/> Hydramnios/Oligohydramnios ..... 06 <input type="checkbox"/> Hemoglobinopathy ..... 07 <input type="checkbox"/> Hypertension, chronic ..... 08 <input type="checkbox"/> Hypertension, pregnancy-associated ..... 09 <input type="checkbox"/> Eclampsia ..... 10 <input type="checkbox"/> Incompetent cervix ..... 11 <input type="checkbox"/> Previous infant 4000+ grams ..... 12 <input type="checkbox"/> Previous preterm or small-for-gestational-age infant ..... 13 <input type="checkbox"/> Renal disease ..... 14 <input type="checkbox"/> Rh sensitization ..... 15 <input type="checkbox"/> Uterine bleeding ..... 16 <input type="checkbox"/> None ..... 00 <input type="checkbox"/> Other ..... 17 <input type="checkbox"/> (Specify) _____		Febrile (>100°F. or 38°C.) ..... 01 <input type="checkbox"/> Meconium, moderate/heavy ..... 02 <input type="checkbox"/> Premature rupture of membrane (>12 hours) ..... 03 <input type="checkbox"/> Abruptio placenta ..... 04 <input type="checkbox"/> Placenta previa ..... 05 <input type="checkbox"/> Other excessive bleeding ..... 06 <input type="checkbox"/> Seizures during labor ..... 07 <input type="checkbox"/> Precipitous labor (<3 hours) ..... 08 <input type="checkbox"/> Prolonged labor (>20 hours) ..... 09 <input type="checkbox"/> Dysfunctional labor ..... 10 <input type="checkbox"/> Breech/Malpresentation ..... 11 <input type="checkbox"/> Cephalopelvic disproportion ..... 12 <input type="checkbox"/> Cord prolapse ..... 13 <input type="checkbox"/> Anesthetic complications ..... 14 <input type="checkbox"/> Fetal distress ..... 15 <input type="checkbox"/> None ..... 00 <input type="checkbox"/> Other ..... 16 <input type="checkbox"/> (Specify) _____		Anencephalus ..... 01 <input type="checkbox"/> Spina bifida/Meningocele ..... 02 <input type="checkbox"/> Hydrocephalus ..... 03 <input type="checkbox"/> Microcephalus ..... 04 <input type="checkbox"/> Other central nervous system anomalies (Specify) ..... 05 <input type="checkbox"/> Heart malformations ..... 06 <input type="checkbox"/> Other circulatory/respiratory anomalies (Specify) ..... 07 <input type="checkbox"/> Rectal atresia/stenosis ..... 08 <input type="checkbox"/> Tracheo-esophageal fistula/ Esophageal atresia ..... 09 <input type="checkbox"/> Omphalocele/ Gastroschisis ..... 10 <input type="checkbox"/> Other gastrointestinal anomalies (Specify) ..... 11 <input type="checkbox"/> Malformed genitalia ..... 12 <input type="checkbox"/> Renal agenesis ..... 13 <input type="checkbox"/> Other urogenital anomalies (Specify) ..... 14 <input type="checkbox"/> Cleft lip/palate ..... 15 <input type="checkbox"/> Polydactyly/Syndactyly/Adactyly ..... 16 <input type="checkbox"/> Club foot ..... 17 <input type="checkbox"/> Diaphragmatic hernia ..... 18 <input type="checkbox"/> Other musculoskeletal/integumental anomalies (Specify) ..... 19 <input type="checkbox"/> Down's syndrome ..... 20 <input type="checkbox"/> Other chromosomal anomalies (Specify) ..... 21 <input type="checkbox"/> None ..... 00 <input type="checkbox"/> Other ..... 22 <input type="checkbox"/> (Specify) _____	
<b>38b. OTHER RISK FACTORS FOR THIS PREGNANCY</b> (Complete all items)		<b>41. METHOD OF DELIVERY</b> (Check all that apply)		<b>42. ABNORMAL CONDITIONS OF THE NEWBORN</b> (Check all that apply)	
Tobacco use during pregnancy ..... Yes <input type="checkbox"/> No <input type="checkbox"/> Average number cigarettes per day _____ Alcohol use during pregnancy ..... Yes <input type="checkbox"/> No <input type="checkbox"/> Average number drinks per week _____ Weight gained during pregnancy _____ lbs.		Vaginal ..... 01 <input type="checkbox"/> Vaginal birth after previous C-section ..... 02 <input type="checkbox"/> Primary C-section ..... 03 <input type="checkbox"/> Repeat C-section ..... 04 <input type="checkbox"/> Forceps ..... 05 <input type="checkbox"/> Vacuum ..... 06 <input type="checkbox"/>		Anemia (Hct. <39/Hgb. <13) ..... 01 <input type="checkbox"/> Birth injury ..... 02 <input type="checkbox"/> Fetal alcohol syndrome ..... 03 <input type="checkbox"/> Hyaline membrane disease/RDS ..... 04 <input type="checkbox"/> Meconium aspiration syndrome ..... 05 <input type="checkbox"/> Assisted ventilation <30 min ..... 06 <input type="checkbox"/> Assisted ventilation ≥30 min ..... 07 <input type="checkbox"/> Seizures ..... 08 <input type="checkbox"/> None ..... 00 <input type="checkbox"/> Other ..... 09 <input type="checkbox"/> (Specify) _____	
<b>39. OBSTETRIC PROCEDURES</b> (Check all that apply)		Amniocentesis ..... 01 <input type="checkbox"/> Electronic fetal monitoring ..... 02 <input type="checkbox"/> Induction of labor ..... 03 <input type="checkbox"/> Stimulation of labor ..... 04 <input type="checkbox"/> Tocolysis ..... 05 <input type="checkbox"/> Ultrasound ..... 06 <input type="checkbox"/> None ..... 00 <input type="checkbox"/> Other ..... 07 <input type="checkbox"/> (Specify) _____		(Specify) _____	

MOTHER

FATHER

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

FETAL DEATH(S)

DEPARTMENT OF HEALTH AND HUMAN SERVICES - PUBLIC HEALTH SERVICE - CENTERS FOR DISEASE CONTROL  
NATIONAL CENTER FOR HEALTH STATISTICS - 1989 REVISION



**Table A. Percent of birth records on which specified items were not stated: United States and each State and territory, 2003**

[By place of residence]

Area	All births	Place of birth	Attendant at birth	Mother's birthplace	Father's age	Father's race	Hispanic Origin	
							Mother	Father
Total of reporting areas 1/	4089950	0.0	0.2	0.4	13.4	14.7	0.7	14.1
Alaska	10,086	0.0	0.3	0.8	11.5	15.3	17.6	20.5
Alabama	59,552	-	0.0	0.0	20.2	20.3	0.1	20.1
Arkansas	37,784	-	0.0	0.3	19.7	21.1	0.2	19.8
Arizona	90,967	0.0	0.0	0.1	23.0	26.2	1.8	24.3
California	540,997	0.0	0.0	0.4	7.2	7.5	1.1	7.1
Colorado	69,339	0.0	-	0.5	8.0	8.6	0.0	8.6
Connecticut	42,873	0.0	0.1	0.5	9.8	10.9	0.5	10.3
District of Columbia	7,619	0.0	-	0.0	35.3	44.6	0.2	35.4
Delaware	11,329	0.0	0.1	0.3	32.6	33.7	0.4	32.7
Florida	212,250	0.0	0.0	0.1	16.8	17.1	0.2	18.3
Georgia	135,979	0.0	0.0	0.2	16.9	17.6	1.7	18.4
Hawaii	18,100	-	0.1	0.2	8.9	12.5	0.2	8.9
Iowa	38,174	-	0.0	0.0	13.8	15.3	0.2	15.1
Idaho	21,800	0.0	0.0	0.5	9.2	12.3	0.7	11.8
Illinois	182,495	0.0	0.0	0.2	13.5	14.7	0.1	14.6
Indiana	86,434	0.0	0.1	0.1	13.0	13.0	0.4	13.3
Kansas	39,476	-	0.0	0.1	9.7	10.4	1.1	11.4
Kentucky	55,236	0.0	0.2	0.0	19.2	21.9	0.1	22.3
Louisiana	65,040	0.0	0.0	0.0	19.5	19.6	0.1	19.5
Massachusetts	80,184	-	0.0	0.0	7.3	8.0	0.5	7.2
Maryland	74,930	-	0.0	0.2	12.3	16.0	0.1	12.9
Maine	13,855	-	0.0	-	8.9	12.7	0.4	13.1
Michigan	131,094	0.0	0.1	0.1	14.0	16.5	1.9	17.5
Minnesota	70,050	-	0.0	0.2	10.2	13.5	0.9	13.7
Missouri	77,045	0.0	0.0	0.3	16.7	19.0	0.1	18.0
Mississippi	42,380	0.0	0.1	0.1	20.6	20.9	0.1	13.7
Montana	11,422	0.0	0.1	0.0	9.6	11.0	1.7	12.4
North Carolina	118,323	-	0.0	0.0	15.7	15.9	0.1	15.8
North Dakota	7,972	-	-	-	8.5	8.7	2.1	10.6
Nebraska	25,917	-	-	-	12.5	14.5	2.2	14.6
New Hampshire	14,393	-	-	0.0	5.5	7.7	4.2	11.1
New Jersey	116,983	0.0	0.0	0.2	7.4	8.9	0.2	7.7
New Mexico	27,821	-	-	1.2	21.0	20.7	0.0	20.7
Nevada	33,647	-	0.0	0.6	22.3	23.9	0.9	22.7
New York	253,714	0.0	0.0	0.4	12.8	13.2	0.3	13.0
Ohio	149,679	0.0	0.0	0.3	15.3	16.0	0.3	15.4
Oklahoma	50,981	0.0	0.0	0.0	16.0	17.4	0.2	17.1
Oregon	45,953	-	0.0	0.2	9.8	5.5	0.6	5.6
Pennsylvania	145,959	0.0	4.4	4.0	6.3	9.4	1.3	5.7
Rhode Island	13,209	0.0	-	0.4	13.1	13.7	12.9	22.6
South Carolina	55,649	0.0	0.0	0.2	27.0	27.2	0.1	27.0
South Dakota	11,027	-	0.0	0.0	10.1	10.9	0.1	13.8
Tennessee	78,890	-	0.0	0.1	15.3	15.6	0.0	15.3
Texas	377,476	0.0	0.0	0.4	13.8	14.2	0.3	14.1
Utah	49,860	0.0	0.0	0.2	8.9	10.3	0.4	9.7
Virginia	101,254	-	0.0	0.1	16.1	18.5	0.2	16.2
Vermont	6,589	-	-	0.2	6.8	9.1	0.7	9.4
Washington	80,489	0.0	0.1	0.1	9.1	23.3	2.7	12.9
Wisconsin	70,040	-	-	0.1	30.0	30.1	0.0	30.0
West Virginia	20,935	0.1	0.0	0.1	14.2	14.4	0.4	14.4
Wyoming	6,700	-	0.0	0.1	15.4	15.7	0.3	15.7
Puerto Rico	50696	-	0.1	-	3.1	4.1	---	---
Virgin Islands	1522	0.1	0.9	-	18.1	18.7	9.2	56.4
Guam	3281	0.1	1.2	0.4	20.8	21.0	2.3	28.2
American Samoa	1608	0.1	0.6	3.5	37.9	37.9	---	---
Northern Marianas	1349	-	0.7	-	9.4	8.5	---	---

See footnotes at end of table.

**Table A. Percent of birth records on which specified items were not stated: United States and each State and territory, 2003 -- Con.**

[By place of residence]

Area	Educational attainment of mother	Live-birth order	Length of gestation	Month prenatal care began	Number of prenatal visits	
Total of reporting areas 1/		1.4	0.3	1.1	4/1.8	2.9
Alabama		0.2	0.0	0.1	0.3	0.4
Alaska		3.9	4.8	0.8	5.9	11.3
Arizona		1.6	0.2	0.1	1.4	2.6
Arkansas		0.6	0.1	0.3	1.4	2.1
California		2.4	0.1	3/6.9	1.7	2.9
Colorado		0.9	0.0	0.0	1.5	2.0
Connecticut		0.6	0.0	0.1	0.7	1.8
Delaware		3.0	0.3	0.1	2.6	0.6
District of Columbia		6.4	0.2	0.2	9.1	5.6
Florida		0.9	0.0	0.1	1.1	2.0
Georgia		2.4	0.2	0.1	1.1	1.0
Hawaii		1.1	0.1	0.2	2.5	2.3
Idaho		5.1	0.2	0.2	3.7	2.0
Illinois		1.3	0.5	0.2	4.0	4.4
Indiana		0.7	0.1	0.0	1.1	1.6
Iowa		0.2	0.0	0.1	0.3	0.4
Kansas		0.3	0.0	0.1	0.7	1.0
Kentucky		0.4	0.1	0.1	1.0	1.4
Louisiana		0.1	0.1	0.2	0.3	0.3
Maine		1.0	0.3	0.0	0.3	0.4
Maryland		1.5	0.4	0.2	1.5	2.1
Massachusetts		0.3	0.2	0.1	1.7	0.5
Michigan		2.3	0.4	0.1	2.4	3.3
Minnesota		1.8	0.5	0.3	4.4	5.5
Mississippi		0.3	0.1	0.2	0.8	1.6
Missouri		0.9	1.0	0.2	2.1	4.7
Montana		0.5	0.1	0.1	0.6	0.6
Nebraska		0.1	0.0	0.1	0.3	0.2
Nevada		2.9	1.2	0.9	6.3	7.7
New Hampshire		1.4	0.2	0.1	1.2	1.2
New Jersey		2.4	0.1	0.1	2.2	1.3
New Mexico		2.5	0.9	0.3	4.8	4.9
New York		1.2	0.3	0.1	2.9	1.9
North Carolina		0.3	0.1	0.0	0.9	1.0
North Dakota		0.3	0.1	0.1	0.9	0.8
Ohio		1.3	0.5	0.0	1.2	2.6
Oklahoma		0.4	0.1	0.2	2.3	2.4
Oregon		2.9	0.0	0.0	1.3	0.1
Pennsylvania		2/3.4	1.1	0.9	2/19.4	8.9
Rhode Island		2.6	1.9	0.3	8.3	14.0
South Carolina		0.7	0.1	0.1	1.6	1.7
South Dakota		0.0	0.0	0.0	0.2	0.3
Tennessee		0.4	0.1	0.3	2.3	2.7
Texas		1.5	0.4	0.4	1.4	3.7
Utah		1.5	0.4	0.0	3.3	3.3
Vermont		0.5	0.1	0.1	4.5	0.9
Virginia		1.3	0.0	0.0	0.2	1.2
Washington		2/5.6	1.3	0.3	2/27.1	13.7
West Virginia		1.5	0.1	0.1	2.9	1.0
Wisconsin		0.4	0.0	0.0	0.2	0.3
Wyoming		0.6	0.0	0.1	0.8	0.9
Puerto Rico		0.3	0.0	0.1	0.2	0.1
Virgin Islands		1.3	0.5	0.3	0.5	1.4
Guam		0.7	0.8	0.0	0.7	0.7
American Samoa		---	-	---	---	---
Northern Marianas		6.2	1.3	0.3	1.0	0.5

See footnotes at end of table.

**Table A. Percent of birth records on which specified items were not stated: United States and each State and territory, 2003 -- Con.**

[By place of residence]

Area	Birthweight	5-minute apgar score	Medical risk factors	Tobacco use	Alcohol use	Weight gain
Total of reporting areas 1/	0.1	0.4	0.5	0.6	0.6	5.8
Alabama	0.1	0.2	0.0	0.0	0.1	2.1
Alaska	0.2	1.6	8.2	1.3	1.4	9.2
Arizona	0.1	0.5	0.0	1.9	2.1	14.6
Arkansas	0.0	3.2	0.1	0.3	0.4	9.0
California	0.0	---	0.0	---	---	---
Colorado	0.1	0.3	0.0	0.1	0.1	2.3
Connecticut	0.0	0.1	0.2	0.1	0.1	1.4
Delaware	0.0	0.2	0.0	2.5	2.5	0.9
District of Columbia	0.0	0.3	0.0	0.1	0.1	11.5
Florida	0.0	0.2	0.0	0.1	0.1	5.5
Georgia	0.0	0.4	0.4	0.2	0.2	8.0
Hawaii	0.1	0.5	0.0	0.1	0.1	13.0
Idaho	0.1	0.5	0.2	2.2	2.2	6.1
Illinois	0.1	0.3	0.0	0.2	0.1	5.4
Indiana	0.4	0.3	0.0	7/0.2	0.2	2.1
Iowa	0.1	0.3	0.0	0.1	0.1	0.5
Kansas	0.0	0.6	5/0.0	0.1	0.1	0.2
Kentucky	0.1	0.4	2.5	2.0	2.5	6.3
Louisiana	0.1	0.4	0.2	0.2	0.2	4.7
Maine	0.1	0.2	0.1	0.5	0.7	1.0
Maryland	0.0	0.3	0.0	0.4	0.4	2.9
Massachusetts	0.1	0.2	0.3	0.2	0.2	0.7
Michigan	0.1	0.3	0.0	1.0	1.0	6.5
Minnesota	0.1	0.3	5.6	4.6	4.7	11.8
Mississippi	0.1	0.2	0.2	0.2	0.2	4.9
Missouri	0.1	0.5	0.1	0.4	0.4	4.1
Montana	0.1	0.4	0.0	0.8	1.2	1.4
Nebraska	0.0	0.1	0.0	0.1	0.1	1.7
Nevada	0.0	1.6	1.4	2.2	2.3	8.9
New Hampshire	0.1	0.1	0.0	0.3	0.3	3.5
New Jersey	0.1	0.3	0.3	1.6	1.7	1.3
New Mexico	0.3	3.5	0.0	1.6	1.7	6.5
New York	0.1	0.2	1.4	7/0.5	0.5	5.0
North Carolina	0.1	0.3	0.0	0.1	0.2	2.6
North Dakota	0.1	0.3	0.3	0.3	0.7	2.6
Ohio	0.1	0.2	0.0	0.5	0.5	3.3
Oklahoma	0.1	0.9	2.0	1.0	1.1	3.3
Oregon	0.0	0.4	0.8	2.3	2.4	2.5
Pennsylvania	0.4	1.0	0.0	2/4.2	---	13.6
Rhode Island	0.2	0.3	6.5	2.0	2.2	15.4
South Carolina	0.0	0.2	0.0	0.2	0.2	2.2
South Dakota	0.0	0.2	-	8/0.1	8/0.1	0.7
Tennessee	0.1	0.3	0.0	0.2	0.2	10.0
Texas	0.1	---	6/0.6	0.2	0.2	8.9
Utah	0.1	0.2	0.2	0.9	0.9	3.6
Vermont	0.6	0.2	0.0	0.7	0.3	1.2
Virginia	0.1	0.2	0.0	0.1	0.1	2.8
Washington	0.4	0.4	5.4	2/3.5	---	14.2
West Virginia	0.1	0.3	0.3	1.3	1.5	6.1
Wisconsin	0.1	0.4	0.1	0.1	0.1	1.9
Wyoming	0.1	0.2	0.0	0.2	0.3	1.9
Puerto Rico	0.0	0.2	0.0	0.0	0.0	0.0
Virgin Islands	0.3	2.9	5.9	2.5	2.5	19.8
Guam	0.2	1.2	0.6	0.4	0.4	1.6
American Samoa	-	---	---	---	---	---
Northern Marianas	0.1	1.1	1.1	8/-	8/-	---

See footnotes at end of table.

**Table A. Percent of birth records on which specified items were not stated: United States and each State and territory, 2003 -- Con.**

[By place of residence]

Area	Obstetric procedures 9/	Complications of labor and/or delivery 10/	Method or delivery	Abnormal conditions of newborn	Congenital anomalies
Total of reporting areas 1/	0.3	0.4	0.5	0.6	0.5
Alabama	0.0	0.0	0.6	0.0	0.0
Alaska	7.7	8.4	0.3	9.4	9.5
Arizona	0.0	0.0	0.5	0.0	0.3
Arkansas	0.0	0.0	0.4	0.0	0.0
California	0.0	0.0	0.0	0.0	0.0
Colorado	0.0	0.0	0.0	0.0	0.1
Connecticut	0.0	0.0	0.2	0.8	0.9
Delaware	0.0	0.0	0.0	2.4	0.0
District of Columbia	0.0	0.0	0.1	0.1	0.0
Florida	0.0	0.0	0.7	0.0	0.0
Georgia	0.0	0.0	0.6	0.0	0.0
Hawaii	0.0	0.0	0.7	0.1	0.0
Idaho	0.2	0.4	0.4	2.1	0.3
Illinois	0.0	0.0	0.6	0.0	0.0
Indiana	0.0	0.0	0.6	0.0	0.0
Iowa	0.0	0.0	0.7	0.1	0.1
Kansas	0.0	0.0	0.2	0.0	0.1
Kentucky	1.7	2.4	2.3	3.4	2.7
Louisiana	0.2	0.2	0.2	0.2	0.2
Maine	0.1	0.1	0.2	0.1	0.1
Maryland	0.0	-	0.3	0.3	0.0
Massachusetts	0.3	0.3	0.3	0.3	0.8
Michigan	0.0	0.0	0.5	0.0	0.0
Minnesota	3.8	5.6	1.3	7.3	7.4
Mississippi	0.1	0.1	0.5	0.1	0.1
Missouri	0.1	0.1	0.7	0.1	0.1
Montana	0.0	0.0	0.3	0.2	0.0
Nebraska	0.0	0.0	0.3	12/0.0	0.0
Nevada	1.0	1.7	1.4	1.3	1.4
New Hampshire	0.0	0.0	0.3	0.0	0.0
New Jersey	0.0	0.1	0.9	1.9	0.5
New Mexico	0.0	0.0	0.4	0.0	---
New York	0.3	0.4	0.5	13/1.4	1.2
North Carolina	0.0	0.0	0.5	0.0	0.0
North Dakota	0.3	0.3	1.9	0.8	0.5
Ohio	0.0	0.0	0.8	0.3	0.0
Oklahoma	1.2	2.0	1.5	4.0	4.5
Oregon	0.0	0.0	0.5	1.3	0.0
Pennsylvania	0.0	0.0	0.2	2/ &	0.0
Rhode Island	6.4	6.5	0.2	14.9	14.0
South Carolina	0.0	0.0	1.0	0.0	0.0
South Dakota	0.0	0.0	0.6	0.0	0.0
Tennessee	0.0	0.0	0.7	0.0	0.0
Texas	0.0	11/0.0	0.7	12/0.0	0.0
Utah	0.0	0.0	0.5	0.1	0.1
Vermont	0.0	0.0	0.2	0.0	0.0
Virginia	0.0	0.0	0.5	0.2	0.0
Washington	5.9	6.0	0.0	2/ &	3.5
West Virginia	0.2	0.3	0.4	0.9	0.1
Wisconsin	0.0	0.0	0.0	14/0.1	0.1
Wyoming	0.0	0.0	0.2	0.0	0.0
Puerto Rico	0.0	0.0	0.0	0.0	0.0
Virgin Islands	2.0	7.6	1.9	7.7	8.5
Guam	0.3	0.8	0.1	0.2	0.4
American Samoa	---	---	---	---	---
Northern Marianas	0.6	0.6	2.4	2.3	1.2

0.0 Quantity more than zero but less than 0.05.

---Data not available.

- Quantity zero.

& Data not shown.

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

2/ Data for Pennsylvania and Washington, which were implemented in the 2003 revision to the U.S. Certificate, are not compatible with data based on the 1989 revision.

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

4/ Excludes data for Pennsylvania and Washington.

5/ Kansas does not report Rh sensitization.

- 6/ Texas does not report genital herpes and uterine bleeding.
- 7/ 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.
- 8/ South Dakota and the Commonwealth of the Northern Marianas report tobacco and alcohol use but do not report the average number of cigarettes smoked per day or the average number of drinks per week.
- 9/ The percent not stated for induction of labor and tocolysis may differ slightly from levels shown here because of formatting differences between the 1989 and 2003 Revision of the Certificate of Live Birth.
- 10/ The percent not stated for meconium, precipitous labor and malpresentation may differ slightly from levels shown here because of formatting differences between the 1989 and 2003 Revision of the Certificate of Live Birth.
- 11/ Texas does not report anesthetic complications and fetal distress.
- 12/ Nebraska and Texas do not report birth injury.
- 13/ New York City does not report assisted ventilation less than 30 minutes and assisted ventilation of 30 minutes or more .
- 14/ Wisconsin does not report fetal alcohol syndrome.

**Table B. Births by place of occurrence and residence for births occurring in the 50 States, the District of Columbia, and U.S. territories, 2003**

Area	Number live births	
	Occurrence	Residence
United States 1/	4,096,092	4,089,950
Alabama	58,415	59,552
Alaska	9,991	10,086
Arizona	91,061	90,967
Arkansas	37,127	37,784
California	541,835	540,997
Colorado	69,525	69,339
Connecticut	43,510	42,873
Delaware	12,120	11,329
District of Columbia	14,637	7,619
Florida	212,313	212,250
Georgia	137,274	135,979
Hawaii	18,139	18,100
Idaho	21,290	21,800
Illinois	179,082	182,495
Indiana	87,115	86,434
Iowa	38,401	38,174
Kansas	40,326	39,476
Kentucky	53,417	55,236
Louisiana	65,302	65,040
Maine	13,662	13,855
Maryland	70,783	74,930
Massachusetts	81,308	80,184
Michigan	129,889	131,094
Minnesota	69,999	70,050
Mississippi	41,291	42,380
Missouri	77,878	77,045
Montana	11,417	11,422
Nebraska	26,079	25,917
Nevada	33,205	33,647
New Hampshire	13,872	14,393
New Jersey	113,851	116,983
New Mexico	27,320	27,821
New York	254,922	253,714
North Carolina	119,006	118,323
North Dakota	9,191	7,972
Ohio	150,023	149,679
Oklahoma	49,855	50,981
Oregon	46,845	45,953
Pennsylvania	145,955	145,959
Rhode Island	13,824	13,209
South Carolina	53,376	55,649
South Dakota	11,503	11,027
Tennessee	84,014	78,890
Texas	383,207	377,476
Utah	51,064	49,860
Vermont	98,991	6,589
Virginia	6,290	101,254
Washington	80,010	80,489
West Virginia	68,893	20,935
Wisconsin	21,481	70,040
Wyoming	6,208	6,700
<b>Births occurring to foreign residents</b>		
Canada	-	210
México	-	5,402
Remainder of world	-	474
<b>Births occurring to US territorial residents</b>		
Puerto Rico	-	50,696
Virgin Islands	-	1,522
Guam	-	3,281
American Samoa	-	1,608
Northern Marianas	-	1,349

--- Data not available.

- Quantity zero.

1/ Excludes data for the territories and foreign residents

**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
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

**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* --Con.**

<i>B</i>	L(1- a=.95, <i>B</i> )	U(1- a=.95, <i>B</i> )	L(1- a=.96, <i>B</i> )	U(1- a=.96, <i>B</i> )
51	0.74457	1.31482	0.73385	1.33057
52	0.74685	1.31137	0.73621	1.32694
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
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, 1900-2003**

[2004] US Census Bureau. Monthly postcensal resident population plus Armed Forces overseas, by single year of age, sex, race, and Hispanic origin. Available at: [http://www.census.gov/popest/national/asrh/2004\\_nat\\_af.html](http://www.census.gov/popest/national/asrh/2004_nat_af.html)

[2003] National Center for Health Statistics. Postcensal estimates of the resident population of the United States as of July 1, 2003, by year, State and county, age, bridged race, sex, and Hispanic origin (vintage 2003). File pcen\_v2003\_y03.txt (ASCII). Released September 14, 2004. Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/datadoc.htm>

[2002] National Center for Health. Postcensal estimates of the resident population of the United States as of July 1, 2002, by State and county, age, bridged race, sex, and Hispanic origin. File pcen v2002.txt. Internet released, August 1, 2003. Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[2001] National Center for Health. Postcensal estimates of the resident population of the United States as of July 1, 2001, by State and county, age, bridged race, sex, and Hispanic origin. File pcen v2002.txt. Internet released, August 1, 2003. Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[2001] National Center for Health. Postcensal estimates of the resident population of the United States as of July 1, 2001, by age, bridged race, sex, and Hispanic origin. File pcen v2001.txt. Internet released, January 12, 2003. Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[2000] National Center for Health Statistics. Estimates of the April 1, 2000, United States resident population by State and county, age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File br040100.txt. Internet released, January 12, 2003. Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[1999] National Center for Health Statistics. Intercensal estimates of the July 1, 1999, United States resident population by State and county, age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File icen1999.txt. Internet released, April 15, 2003. Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[1998] National Center for Health Statistics. Intercensal estimates of the July 1, 1998, United States resident population by State and county, age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File icen1999.txt. Internet released, April 15, 2003. Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[1997] National Center for Health Statistics. Intercensal estimates of the July 1,

1997, United States resident population by State and county, age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File icen1997.txt. Internet released, April 15, 2003.  
Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[1996] National Center for Health Statistics. Intercensal estimates of the July 1, 1996, United States resident population by State and county, age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File icen1996.txt. Internet released, April 15, 2003.  
Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[1995] National Center for Health Statistics. Intercensal estimates of the July 1, 1995, United States resident population by State and county, age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File icen1995.txt. Internet released, April 15, 2003.  
Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[1994] National Center for Health Statistics. Intercensal estimates of the July 1, 1994, United States resident population by State and county, age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File icen1994.txt. Internet released, April 15, 2003.  
Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[1993] National Center for Health Statistics. Intercensal estimates of the July 1, 1993, United States resident population State and county, by age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File icen1993.txt. Internet released, April 15, 2003.  
Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[1992] National Center for Health Statistics. Intercensal estimates of the July 1, 1992, United States resident population by State and county, age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File icen1992.txt. Internet released, April 15, 2003.  
Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

[1991] National Center for Health Statistics. Intercensal estimates of the July 1, 1991, United States resident population by State and county, age, sex, bridged race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. File icen1991.txt. Internet released, April 15, 2003.  
Available at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

<b>Table E. Percentage net undercount, by age, sex, and race/Hispanic origin: United States, April 1, 2000</b>	
Characteristic	Estimate (%)
Total	-0.49
Age/sex	
10-17 Male and female	-1.32
18-29 Male	1.12
18-29 Female	-1.39
30-49 Male	2.01
30-49 Female	-0.60
50 years and over male	-0.80
50 years and over female	-2.53
Race/Hispanic origin	
Non-Hispanic white	-1.13
Non-Hispanic black	1.84
Hispanic	0.71

SOURCE: Fenstermaker D, Haines D. Summary of estimated net coverage. DSSD A.C.E. Revision II Memorandum Series #PP-54. Washington: U.S. Census Bureau. 2002.

**Table 4-1. Population of birth- and death-registration States, 1900–1932,  
and United States, 1900–2003**

[Population enumerated as of April 1 for 1940, 1950, 1960, 1970, 1980, 1990, and 2000 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 States2/	Population residing in area	Number of States2/	Population residing in area
2003	291,028,156	290,810,789	1950	151,132,000	150,697,361	...	...	...	...
2002	288,600,204	288,368,706	1949	149,188,000	148,665,000	...	...	...	...
2001	285,024,000	284,796,887	1948	146,631,000	146,093,000	...	...	...	...
2000	281,652,000	281,421,906	1947	144,126,000	143,446,000	...	...	...	...
1999	279,294,713	279,040,168	1946	141,389,000	140,054,000	...	...	...	...
1998	276,115,288	275,854,104	1945	139,928,000	132,481,000	...	...	...	...
1997	272,911,760	272,646,925	1944	138,397,000	132,885,000	...	...	...	...
1996	269,667,391	269,394,284	1943	136,739,000	134,245,000	...	...	...	...
1995	266,557,091	266,278,393	1942	134,860,000	133,920,000	...	...	...	...
1994	263,435,673	263,125,821	1941	133,402,000	133,121,000	...	...	...	...
1993	260,255,352	259,918,588	1940	131,820,000	131,669,275	...	...	...	...
1992	256,894,189	256,514,224	1939	131,028,000	130,879,718	...	...	...	...
1991	253,492,503	252,980,941	1938	129,969,000	129,824,939	...	...	...	...
1990	249,225,000	248,709,873	1937	128,961,000	128,824,829	...	...	...	...
1989	247,342,000	246,819,000	1936	128,181,000	128,053,180	...	...	...	...
1988	245,021,000	244,499,000	1935	127,362,000	127,250,232	...	...	...	...
1987	242,804,000	242,289,000	1934	126,485,000	126,373,773	...	...	...	...
1986	240,651,000	240,133,000	1933	125,690,000	125,578,763	...	...	...	...
1985	238,466,000	237,924,000	1932	124,949,000	124,840,471	47	118,903,899	47	118,903,899
1984	236,348,000	235,825,000	1931	124,149,000	124,039,648	46	117,455,229	47	118,148,987
1983	234,307,000	233,792,000	1930	123,188,000	123,076,741	46	116,544,946	47	117,238,278
1982	232,188,000	231,664,000	1929		121,769,939	46	115,317,450	46	115,317,450
1981	229,966,000	229,466,000	1928		120,501,115	44	113,636,160	44	113,636,160
1980	227,061,000	226,545,805	1927		119,038,062	40	104,320,830	42	107,084,532
1979	225,055,000	224,567,000	1926		117,399,225	35	90,400,590	41	103,822,683
1978	222,585,000	222,095,000	1925		115,831,963	33	88,294,564	40	102,031,555
1977	220,239,000	219,760,000	1924		114,113,463	33	87,000,295	39	99,318,098
1976	218,035,000	217,563,000	1923		111,949,945	30	81,072,123	38	96,788,197
1975	215,973,000	215,465,000	1922		110,054,778	30	79,560,746	37	92,702,901
1974	213,854,000	213,342,000	1921		108,541,489	27	70,807,090	34	87,814,447
1973	211,909,000	211,357,000	1920		106,466,420	23	63,597,307	34	86,079,263
1972	209,896,000	209,284,000	1919	105,063,000	104,512,110	22	61,212,076	33	83,157,982
1971	207,661,000	206,827,000	1918	104,550,000	103,202,801	20	55,153,782	30	79,008,412
1970	204,270,000	203,211,926	1917	103,414,000	103,265,913	20	55,197,952	27	70,234,775
1969	202,677,000	201,385,000	1916		101,965,984	11	32,944,013	26	66,971,177
1968	200,706,000	199,399,000	1915		100,549,013	10	31,096,697	24	61,894,847
1967	198,712,000	197,457,000	1914		99,117,567	...	...	24	60,963,309
1966	196,560,000	195,576,000	1913		97,226,814	...	...	23	58,156,740
1965	194,303,000	193,526,000	1912		95,331,300	...	...	22	54,847,700
1964	191,889,000	191,141,000	1911		93,867,814	...	...	22	53,929,644
1963	189,242,000	188,483,000	1910		92,406,536	...	...	20	47,470,437
1962	186,538,000	185,771,000	1909		90,491,525	...	...	18	44,223,513
1961	183,691,000	182,992,000	1908		88,708,976	...	...	17	38,634,759
1960	179,933,000	179,323,175	1907		87,000,271	...	...	15	34,552,837
1959	177,264,000	176,513,000	1906		85,436,556	...	...	15	33,782,288
1958	174,141,000	173,320,000	1905		83,819,666	...	...	10	21,767,980
1957	171,274,000	170,371,000	1904		82,164,974	...	...	10	21,332,076

1956	168,221,000	167,306,000	1903	80,632,152	...	...	10	20,943,222
1955	165,275,000	164,308,000	1902	79,160,196	...	...	10	20,582,907
1954	162,391,000	161,164,000	1901	77,585,128	...	...	10	20,237,453
1953	159,565,000	158,242,000	1900	76,094,134	...	...	10	19,965,446
1952	156,954,000	155,687,000						
1951	154,287,000	153,310,000						

- - - Data not available.

... Category not applicable.

<sup>1/</sup> Alaska included beginning 1959 and Hawaii, 1960.

<sup>2/</sup> 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. Census Bureau; see text and table D.

**Table 4-2. Estimated total population by race, and estimated female population by age and race: United States, 2003**

[Populations estimated as of July 1]

Age	All races	White	Black	American Indian	Asian or Pacific Islander
Total population	290,810,789	236,349,420	38,148,112	3,111,067	13,202,190
Female population					
15-44 years	61,910,608	48,781,745	9,054,043	737,138	3,337,682
10-14 years	10,336,612	8,000,163	1,749,239	150,708	436,502
15-19 years	9,959,789	7,795,394	1,583,322	144,926	436,147
15-17 years	5,997,800	4,687,044	965,207	87,450	258,099
18-19 years	3,961,989	3,108,350	618,115	57,476	178,048
20-24 years	10,063,772	7,862,961	1,556,595	133,130	511,086
25-29 years	9,395,243	7,294,715	1,394,320	112,534	593,674
30-34 years	10,254,869	8,015,352	1,467,416	111,871	660,230
35-39 years	10,681,456	8,478,198	1,503,136	114,337	585,785
40-44 years	11,555,479	9,335,125	1,549,254	120,340	550,760
45-49 years	11,030,309	9,005,159	1,408,560	108,883	507,707

NOTE: These population counts are estimated based on the 2000 census; see text: "Population bases". Race categories are consistent with the 1977 Office of Management and Budget guidelines.

SOURCE: U.S. Census Bureau and NCHS. See reference 41.

**Table 4-3. Estimated total population by specified Hispanic origin and estimated female population by age and specific Hispanic origin and by race for women of non-Hispanic origin: United States, 2003**

[Populations estimated as of July 1, 2003]

Age		Hispanic					Non-Hispanic		
		Total	Mexican	Puerto Rican	Cuban	Other Hispanic 1/	Total 2/	White	Black
Total population	290,810,789	39,899,063	26,526,961	3,861,862	1,496,974	8,013,241	250,911,726	199,214,378	36,508,902
Female population									
15-44 years	61,910,608	9,413,358	6,201,464	947,551	240,901	2,023,444	52,497,250	40,061,288	8,639,424
10-14 years	10,336,612	1,788,726	1,263,091	186,328	44,904	294,411	8,547,886	6,356,246	1,664,204
15-19 years	9,959,789	1,562,601	1,055,394	168,451	28,609	310,150	8,397,188	6,355,772	1,513,477
15-17 years	5,997,800	944,433	637,856	106,359	21,225	178,999	5,053,367	3,818,116	922,089
18-19 years	3,961,989	618,168	417,538	62,092	4,384	131,151	3,343,821	2,537,656	591,388
20-24 years	10,063,772	1,672,471	1,149,488	148,559	34,138	340,289	8,391,301	6,317,351	1,482,135
25-29 years	9,395,243	1,706,215	1,171,850	163,684	38,601	332,064	7,689,028	5,711,126	1,319,339
30-34 years	10,254,869	1,656,952	1,098,812	167,168	31,143	359,838	8,597,917	6,476,430	1,394,425
35-39 years	10,681,456	1,493,028	958,105	152,952	51,382	330,592	9,188,428	7,092,435	1,437,765
40-44 years	11,555,479	1,322,091	767,815	146,737	57,028	350,511	10,233,388	8,108,174	1,492,283
45-49 years	11,030,309	1,072,103	641,391	104,809	46,835	279,069	9,958,206	8,009,801	1,362,200

1/ Includes Central and South American and other and unknown Hispanic.

2/ Includes races other than white and black.

NOTE: These population counts are estimated based on the 2000 census; see text: "Population bases". Race categories are consistent with the 1977 Office of Management and Budget guidelines.

SOURCE: U.S. Census Bureau and NCHS. See references 41 and 44.

**4-4. Estimated total population and female population aged 15-44 years:  
United States, each State, and Territory: July 1, 2003**

<b>Geographic area</b>	<b>Total population</b>	<b>Females15-44 years</b>
United States	290,810,789	61,910,608
Alabama	4,500,752	952,087
Alaska	648,820	139,194
Arizona	5,580,811	1,148,001
Arkansas	2,725,715	560,422
California	35,484,453	7,734,367
Colorado	4,550,688	997,999
Connecticut	3,483,375	719,173
Delaware	817,491	175,293
District of Columbia	564,353	141,289
Florida	17,019,068	3,345,724
Georgia	8,684,715	1,963,462
Hawaii	1,257,613	250,610
Idaho	1,366,332	286,935
Illinois	12,653,544	2,723,508
Indiana	6,195,643	1,301,726
Iowa	2,944,062	603,002
Kansas	2,723,508	568,347
Kentucky	4,117,827	874,761
Louisiana	4,496,334	983,257
Maine	1,305,732	266,228
Maryland	5,508,909	1,201,519
Massachusetts	6,433,422	1,402,058
Michigan	10,079,985	2,125,430
Minnesota	5,059,375	1,093,415
Mississippi	2,881,283	624,230
Missouri	5,704,484	1,201,978
Montana	917,621	182,464
Nebraska	1,739,291	362,833
Nevada	2,241,154	466,283
New Hampshire	1,287,689	273,124



New Jersey	8,638,396	1,803,203
New Mexico	1,874,614	389,591
New York	19,190,115	4,161,106
North Carolina	8,407,248	1,798,023
North Dakota	633,840	129,510
Ohio	11,435,799	2,387,729
Oklahoma	3,511,532	729,796
Oregon	3,559,596	735,735
Pennsylvania	12,365,459	2,511,912
Rhode Island	1,076,166	233,533
South Carolina	4,147,153	884,115
South Dakota	764,309	155,788
Tennessee	5,841,748	1,250,389
Texas	22,118,509	4,871,950
Utah	2,351,467	540,615
Vermont	619,116	128,931
Virginia	7,386,330	1,598,601
Washington	6,131,445	1,315,445
West Virginia	1,810,357	360,089
Wisconsin	5,472,299	1,153,678
Wyoming	501,242	102,150
Puerto Rico	3,878,532	854,116
Virgin Islands	108,814	22,789
Guam	163,593	36,708
American Samoa	57,844	12,892
Northern Marianas	76,129	29,890

Source: National Center for Health Statistics. Unpublished estimates of the July 1, 2003, United States population by age, sex, race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau, 2003.

## Births: Final Data for 2003

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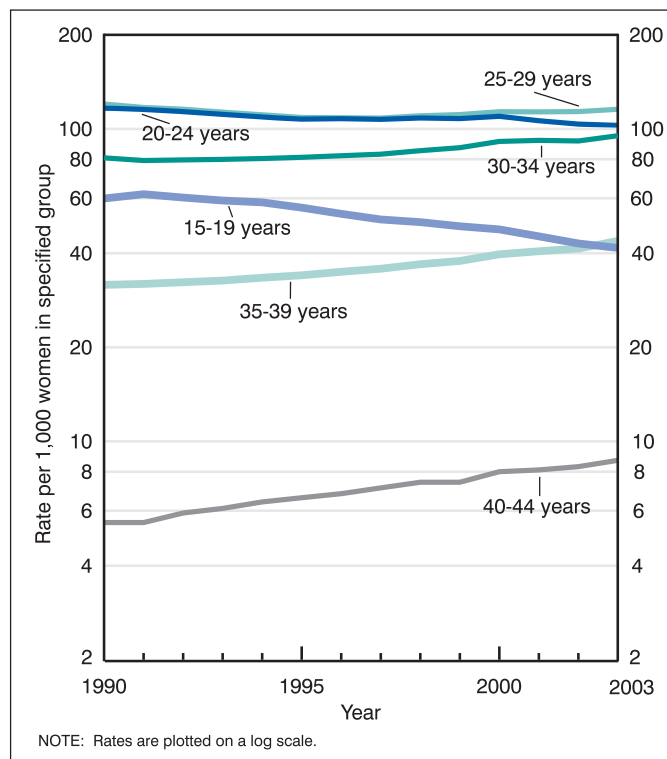
### Abstract

**Objectives**—This report presents 2003 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, and 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 4.09 million births that occurred in 2003 are presented. Denominators for population-based rates are derived from the U.S. 2000 census.

**Results**—In 2003 there were 4,089,950 live births reported in the United States, 2 percent more than the number in 2002. The crude birth rate (CBR) and general fertility rate (GFR) rose slightly. Childbearing among teenagers declined for the 12th straight year to another historic low. Birth rates for women aged 20–24 years also declined, whereas rates for women aged 25–44 years increased 2–6 percent, reaching highs not reported since the mid- to late 1960s. All measures of unmarried childbearing increased considerably in 2003, but smoking during pregnancy continued to decline. Timely initiation of prenatal care improved slightly. The cesarean delivery rate jumped another 5 percent to another all-time high, and the rate of vaginal birth after previous cesarean dropped 16 percent, an all-time low. Key measures of birth outcome—the percentages of preterm and low birthweight (LBW) births—rose. The twinning rate increased, but the rate of triplet and higher order multiple births was essentially stable.

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



**Figure 1. Birth rates by age of mother: United States, 1990–2003**

### Highlights

- In 2003, 4,089,950 births were registered in the United States, 2 percent more than in 2002. Births increased among non-Hispanic white, Hispanic, American Indian, and Asian or Pacific Islander (API) women but decreased among non-Hispanic black women.
- The 2003 **crude birth rate** for the United States increased 1 percent from 2002, to 14.1 live births per 1,000 total population. The **general fertility rate (GFR)** also increased, to 66.1 live births per

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1,000 women aged 15–44 years, 2 percent higher than the 2002 rate. Fertility rates increased for non-Hispanic white and Hispanic women by 2 and 3 percent, respectively, but decreased slightly for non-Hispanic black women. Fertility also increased for API women but was essentially unchanged for American Indian women.

- **The teenage birth rate** fell 3 percent in 2003 to 41.6 births per 1,000 women aged 15–19 years, another record low for the Nation. The rate has plummeted by one-third since the 1991 peak (61.8). The rate for females aged 10–14 years declined to 0.6 per 1,000, a one-third decline since 2000. Birth rates for teenagers 15–17 and 18–19 years each fell 3 percent. The rate for ages 15–17 years was 22.4 per 1,000, 42 percent lower than in 1991, and the rate for ages 18–19 years was 70.7 per 1,000, 25 percent lower than in 1991. Declines in rates have been especially striking for black teenagers: their overall rate dropped 45 percent since 1991, whereas the rate for young black females 15–17 years has plunged more than half. Rate declines for all teenagers were substantial enough to more than compensate for the increased number of female teenagers, so that the number of births to women under 20 years dropped to the fewest since 1946, the first year of the baby boom. **See figure 1.**
- The **birth rate for women aged 20–24 years** declined to 102.6 births per 1,000 women in 2003, the lowest rate on record. The birth rate for **women aged 25–29 years** rose 2 percent, to 115.6. The **birth rates for women aged 30–34 and 35–39 years** also rose, to 95.1 and 43.8, respectively, the highest rates reported since the mid-1960s. The **birth rate for women 40–44 years** increased 5 percent, to 8.7, the highest rate reported since 1969; the rate for this age group is up 58 percent since only 1990. The birth rate for women 45–49 years of age was unchanged.
- The **first birth rate** rose 3 percent between 2002 and 2003, to 26.5 births per 1,000 women aged 15–44 years. First birth rates for women under 20 years of age decreased, whereas first birth rates for women aged 25–44 years increased; rates for women 20–24 and 45–49 years of age were essentially unchanged.
- The mean or average age at first birth for the United States in 2003 was 25.2 years, slightly higher than in 2002.
- **Childbearing by unmarried women** rose steeply in 2003. The **birth rate** per 1,000 unmarried women aged 15–44 years jumped 3 percent to 44.9 births, breaking an 8-year period of little change.

The number of births to unmarried women climbed 4 percent to 1,415,995, the highest number recorded in the more than six decades for which national data are available. The proportion of all births to unmarried women increased to 34.6 percent; this measure has risen steadily since the late 1990s. Despite the overall increases, birth rates for unmarried teenagers continued to fall, with declines for younger teenagers outpacing those for older teenagers.

- **Cigarette smoking** during pregnancy fell to 10.7 percent of women giving birth in 2003. Among women who smoked, about one-quarter smoked half a pack of cigarettes or more per day. Smoking rates are especially high for women aged 18–24 years. Smoking during pregnancy is an important preventable risk factor for poor birth outcome. Compared with 7.7 percent of babies born to nonsmokers, in 2003, 12.4 percent of babies born to smokers were low birthweight (LBW), that is, they weighed less than 2,500 grams.
- **Timely initiation of prenatal care** improved again in 2003, rising to 84.1 percent of all mothers. The proportion of women beginning care in the first trimester of pregnancy has increased 11 percent since 1990. Late (care in the last trimester) or no prenatal care declined to 3.5 percent in 2003, down from 6.1 percent in 1990. Small gains in prenatal care timing were seen among each of the largest racial and ethnic groups between 2002 and 2003.
- The rate of **induction of labor** was unchanged for 2003 at 20.6 percent; this rate has more than doubled since 1990 (9.5 percent).
- For 2003 the **rate of cesarean delivery** increased 5 percent to 27.5 percent of all births, the highest rate ever reported in the United States. After falling between 1989 and 1996, the cesarean rate has risen by one-third. The **primary rate** increased 6 percent, and the rate of **vaginal birth after cesarean delivery (VBAC)** fell by 16 percent for 2002–03.
- The **preterm birth rate** (percentage of infants delivered at less than 37 completed weeks of gestation) increased 2 percent in 2003 to 12.3 percent of all births. The preterm delivery rate has risen 16 percent since 1990 and by more than 30 percent since 1981. Most of the current year increase was among infants born moderately preterm (32–36 weeks of gestation). Significant increases in moderately preterm births were also seen among singleton births only. Preterm rates increased among non-Hispanic white, non-Hispanic black, and Hispanic infants for the current year.
- The **low birthweight rate** (less than 2,500 grams) also increased in 2003, to 7.9 percent, the highest level reported since 1970. The percentage of infants born LBW has risen 18 percent since the 1984 low (6.7 percent). The rise for 2002–03 was among moderately LBW infants (1,500–2,499 grams); the very low birthweight (VLBW) level (less than 1,500 grams) was essentially unchanged. Levels increased for the three largest racial and ethnic groups and for singleton births only.
- The number of births in twin deliveries increased 3 percent for 2002–03, to 128,665 births; the twin birth rate rose 1 percent to 31.5 twins per 1,000 live births. Since 1980 the number of twins has climbed by three-fourths and the rate by two-thirds. The rate of **triplet and other higher order multiple births** (triplet+) was 187.4 per 100,000 in 2003, not significantly different from the 2002 level. The triplet/+ rate had surged from 37.0 to 193.5 between

1980 and 1998 but has been essentially stable since 1999. Multiple births continue to be at high risk of being delivered preterm or LBW.

## Introduction

This report presents detailed data on numbers and characteristics of births in 2003, 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 explain differences in birth outcomes. It is very important that data on birth outcomes, especially levels of LBW and preterm birth, be monitored continuously because these variables are important predictors of infant mortality and morbidity.

A report of preliminary birth statistics for 2003 presented data on selected topics based on a substantial sample (98.5 percent) of the 2003 birth file (1). Findings for the selected measures (age, race, Hispanic origin, marital status of mother, live-birth order, prenatal care, maternal smoking, cesarean delivery, preterm births, and LBW) 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 file that is issued for each year. The data file is available on tape and in CD-ROM format since 1968, and selected detailed data tables are available on the National Center for Health Statistics (NCHS) Web site at <http://www.cdc.gov/nchs/datawh/statab/unpubd/natality/natab2000.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 showing 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.

This report includes data for two States, Pennsylvania and Washington, that implemented the 2003 revision of the U.S. Standard Certificate of Live Birth in 2003 (revised), and also the remaining 48 States and the District of Columbia for which data are based on the 1989 revision of the U.S. Standard Certificate of Live Birth (unrevised). The 2003 revision is described in detail elsewhere (5–7); a forthcoming report will present information on new items for the revised States. Because few States provide data based on the revised certificate, in this report revised data are combined with unrevised data where comparable. Data for Pennsylvania and Washington are excluded from

the national figures for items where data are not comparable. The comparability of data items between the 1989 and the 2003 certificates is discussed in the “Technical Notes.”

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 majority of women of Hispanic origin are reported as white. Most tables in this report show data for these categories: white total; non-Hispanic white; black total; non-Hispanic black; and Hispanic. Text discussions are for non-Hispanic white, non-Hispanic black, and Hispanic mothers wherever measures for these groups are available. Data for American Indian and Asian or Pacific Islander (API) births are not shown separately by Hispanic origin because the majority of these populations are non-Hispanic. Data are also presented for four specific Hispanic subgroups: Mexican, Puerto Rican, Cuban, and Central and South American, and for an additional subgroup referred to as “other and unknown Hispanic.” Text references to black births and black mothers or white births and white mothers are used interchangeably for ease in writing.

In 1997 the Office of Management and Budget (OMB) issued “Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity” (8–10). The 1997 revised standards incorporated two major changes designed to reflect the changing racial and ethnic profile of the United States. First, the revision increased from four to five the minimum set of categories to be used by Federal agencies for identification of race. The 1977 standards required Federal agencies to report race-specific tabulations using a minimum set of four single-race categories: American Indian or Alaska Native (AIAN), Asian or Pacific Islander (API), black, and white. The 1997 revised standards called for reporting Asians separately from Native Hawaiians or Other Pacific Islanders. The revised standards also require Federal data collection programs to allow respondents to select *one or more race categories*.

For the 2000 decennial census, the U.S. Census Bureau collected race and ethnicity data in accordance with the 1997 revised standards. However, the National Vital Statistics System, which is based on data collected by the States, will not be fully compliant with the new standards until all of the States revise their birth certificates to reflect the new standards. Thus, beginning with the 2000 data year, the numerators (births) for birth rates are incompatible with the denominators (populations) (see “Population denominators”). In order to compute rates, it is necessary to bridge population data for multiple-race persons to single-race categories. This has been done for birth rates by race presented in this report. Once all States revise their birth registration systems to comply with the 1997 OMB standards, the use of bridged populations can be discontinued.

Beginning with the 2003 data year, multiple-race was reported by California, Hawaii, Ohio (for births occurring in December only), Pennsylvania, Utah, and Washington. Data from the vital records of the remaining 44 States and the District of Columbia followed the 1977 OMB standards in which a single race is reported (8,9). In addition, these areas also report the minimum set of four races as stipulated in the 1977 standards, compared with the minimum of five races for the 1997 standards.

To provide uniformity and comparability of the data during the transition period before multiple-race data are available for all reporting areas, it is necessary to bridge the responses of those who reported more than one race to a single-race category. Multiple-race is imputed

to a single race (one of the following: AIAN, API, black, or white) according to the combination of races, Hispanic origin, sex, and age indicated on the birth certificate of the mother or father (10–13). See “Technical Notes.” The bridging procedure imputes multiple-race of mothers as reported on the birth certificate to one of the four minimum races stipulated in the 1977 OMB standards, that is, AIAN, API, black, or white. Mothers of a specified API subgroup (i.e., Chinese, Japanese, Hawaiian, or Filipino) in combination with another race (i.e., AIAN, black, or white) or another API subgroup cannot be imputed to a particular API subgroup. For this report, data are not shown for the specified API subgroups because of this change (14) (see “Technical Notes”). A report on births in 2003 to multiple-race women, which will include births to single- and multiple-race women of the API subgroups, is forthcoming.

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 2003. (See “Technical Notes” for additional information.) All other maternal and infant characteristics (except items on which length of gestation is calculated) are not imputed. Births for which a particular characteristic is unknown are subtracted from the figures for total births that are used as denominators before percentages, percent distributions, and medians are computed. Levels of non-reporting vary substantially by specific item and by State. Table I in the “Technical Notes” provides information on the percentage of records with missing information for each item by State for 2003. Readers should note that the levels of incomplete or inaccurate reporting for some of the items are quite high in some States. Data for 2003 for Alaska and Rhode Island are of particular concern.

## Demographic Characteristics

### Births and birth rates

#### Number of births

In 2003 a total of 4,089,950 **births** were registered in the United States, 68,224 more than in 2002 (an increase of 2 percent). The 2003 total is the highest number reported since 1963 (4,098,020). Except for a brief upward trend in the late 1990s, the number of births had generally declined since 1990, the most recent peak (4,158,212). (See tables 1–12 for national and State data by age, live-birth order, race, and Hispanic origin.)

The number of births for 2003 generally increased for all race and Hispanic origin groups (tables 1 and 6). Births rose 1 percent for non-Hispanic white women and 4 percent for Hispanic women. Births to American Indian and Asian or Pacific Islander (API) women increased 2 and 5 percent, respectively, whereas births to non-Hispanic black women (the only group to decline in 2003) fell slightly, by less than 1 percent. Among the specified Hispanic groups, increases in births ranged from 2 percent for Puerto Rican women to 8 percent for Central and South American women.

#### Crude birth rate

The **crude birth rate** (CBR) for 2003, 14.1 live births per 1,000 total population, was 1 percent higher than the rate for 2002 (13.9), the lowest birth rate on record for the United States (14). The 2003 rate is 16 percent lower than the most recent peak in 1990, 16.7. The CBR dropped steadily from 1990 to 1997 but has fluctuated since (table 1).

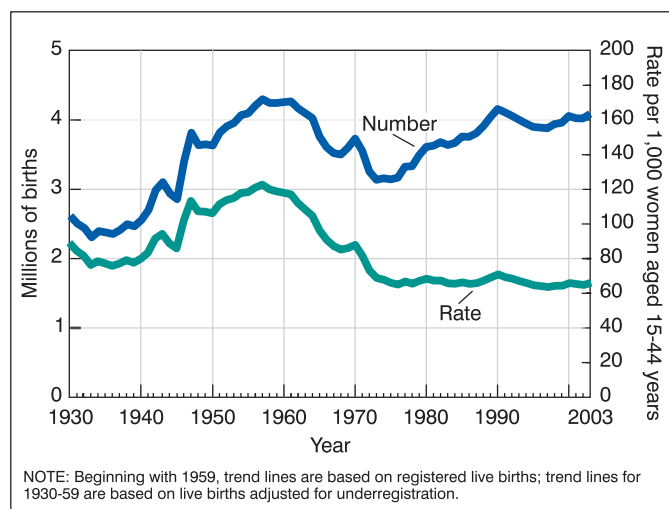
#### Fertility rate

In 2003 the **general fertility rate** (GFR) was 66.1 live births per 1,000 women of childbearing age (15–44 years), an increase of 2 percent from 2002 (64.8) and the highest rate since 1993 (67.0). Since 1990 the GFR has fluctuated but overall has declined 7 percent (from 70.9) (figure 2 and table 1).

The GFRs of non-Hispanic white (58.5 per 1,000 aged 15–44 years) and Hispanic (96.9) women rose 2 and 3 percent, respectively, between 2002 and 2003 (tables 1 and 6). Fertility also increased for API women (by 3 percent to 66.3). However, the rate for non-Hispanic black women declined slightly from 67.4 in 2002 to 67.1 in 2003; the rate for American Indian women was essentially unchanged. Among the specified Hispanic origin groups, the rates for Mexican, Cuban, and other Hispanic women increased 3, 5, and 6 percent, respectively, whereas the rate for Puerto Rican women was down 6 percent. Since 1990 fertility rates have decreased for all race and Hispanic origin groups except Cubans.

#### Age of mother

**Teenagers**—Birth rates for adolescents fell again in 2003, reaching historic lows for the Nation. Rates fell for all age groups, and, with only one or two exceptions, rates also declined within age groups for all race and ethnic population subgroups (tables A, 3, 4, 8, and 9). The **birth rate for the youngest teenagers** declined to 0.6 births per 1,000 females aged 10–14 years in 2003, compared with 0.7 in 2002; the 2003 rate was less than one-half the rate reported during 1989–94 (1.4 per 1,000) (15). The decline in the birth rate was substantial enough to more than compensate for the



**Figure 2. Live births and fertility rates: United States, 1930–2003**

**Table A. Birth rates for teenagers 15–19 years, by age, race, and Hispanic origin: United States, 1991, 2000, 2002, and 2003, and percentage change in rates, 1991–2003 and 2002–2003**

[Rates per 1,000 women in specified group]

Age and race and Hispanic origin of mother	2003	2002	1991	Percent change, 2002–2003	Percent change, 1991–2003
<b>10–14 years</b>					
All races <sup>1</sup>	0.6	0.7	1.4	-14	-57
Non-Hispanic white	0.2	0.2	0.5	0	-60
Non-Hispanic black	1.6	1.9	4.9	-16	-67
American Indian total <sup>2</sup>	1.0	0.9	1.6	11	-38
Asian or Pacific Islander total <sup>2</sup>	0.2	0.3	0.8	-33	-75
Hispanic <sup>3</sup>	1.3	1.4	2.4	-7	-46
<b>15–19 years</b>					
All races <sup>1</sup>	41.6	43.0	61.8	-3	-33
Non-Hispanic white	27.4	28.5	43.4	-4	-37
Non-Hispanic black	64.7	68.3	118.2	-5	-45
American Indian total <sup>2</sup>	53.1	53.8	84.1	-1	-37
Asian or Pacific Islander total <sup>2</sup>	17.4	18.3	27.3	-5	-36
Hispanic <sup>3</sup>	82.3	83.4	104.6	-1	-21
<b>15–17 years</b>					
All races <sup>1</sup>	22.4	23.2	38.6	-3	-42
Non-Hispanic white	12.4	13.1	23.6	-5	-47
Non-Hispanic black	38.7	41.0	86.1	-6	-55
American Indian total <sup>2</sup>	30.6	30.7	51.9	0	-41
Asian or Pacific Islander total <sup>2</sup>	8.8	9.0	16.3	-2	-46
Hispanic <sup>3</sup>	49.7	50.7	69.2	-2	-28
<b>18–19 years</b>					
All races <sup>1</sup>	70.7	72.8	94.0	-3	-25
Non-Hispanic white	50.0	51.9	70.6	-4	-29
Non-Hispanic black	105.3	110.3	162.2	-5	-35
American Indian total <sup>2</sup>	87.3	89.2	134.2	-2	-35
Asian or Pacific Islander total <sup>2</sup>	29.8	31.5	42.2	-5	-29
Hispanic <sup>3</sup>	132.0	133.0	155.5	-1	-15

<sup>1</sup>Includes races other than white and black.

<sup>2</sup>Race and Hispanic origin are reported separately on birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."

<sup>3</sup>Includes all persons of Hispanic origin of any race; see "Technical Notes."

increased number of female teenagers (table II) (16) so that the number of births in this age group also fell sharply, to 6,661, a 9-percent drop from 2002 (7,315).

The birth rate for teenagers 15–19 years declined 3 percent to 41.6 births per 1,000 females (tables A, 4, and 9). This rate has dropped 33 percent since the recent peak in 1991 (61.8). As was true for younger teenagers, the falling birth rate has resulted in fewer births to teenagers 15–19, even though the number of female teenagers increased modestly in 2003 (table II). In 2003 teenagers aged 15–19 years gave birth to 414,580 babies, more than 100,000 fewer than the recent peak in 1990 (521,826).

Birth rates for teenagers aged 15–17 and 18–19 years each dropped 3 percent in 2003, to 22.4 and 70.7, respectively. Overall since 1991 the rate for teenagers aged 15–17 years fell 42 percent, whereas the rate for older teenagers declined 25 percent. Births to 15–17-year-olds fell to 134,384, the fewest since 1952, whereas births to older teenagers declined to 280,196, the fewest since 1946 (235,282).

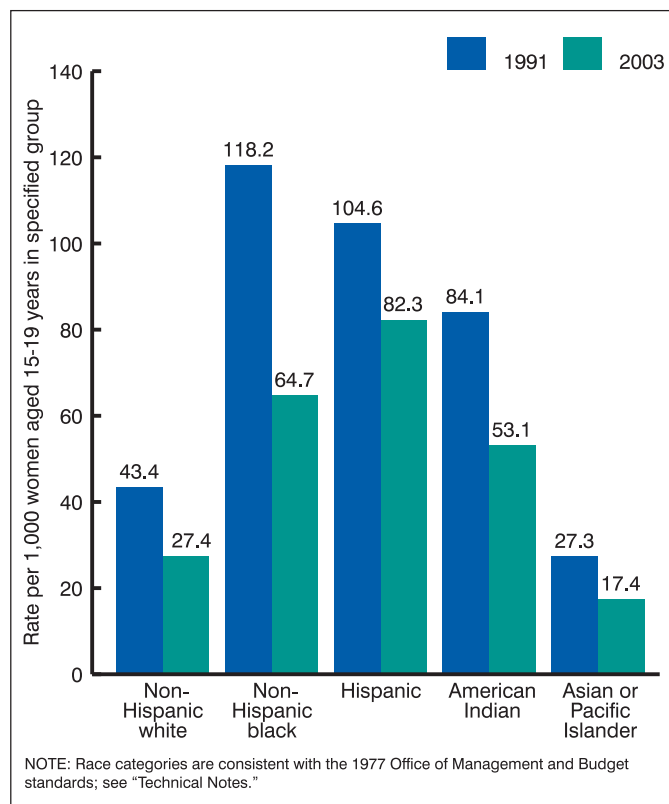
Birth rates for teenagers differ sharply among race and Hispanic ethnicity population subgroups. In 2003 the overall rate was highest for

Mexican teenagers, 93.2 per 1,000 aged 15–19 years, and lowest for API teenagers, 17.4. In-between rates were 64.7 for non-Hispanic black teenagers, 60.8 for Puerto Ricans, 53.1 for American Indians, and 27.4 for non-Hispanic white teenagers.

Whereas rates have fallen for adolescents in all groups over the 1991–2003 period, the most striking declines are for non-Hispanic black teenagers. Overall, their rate fell 45 percent during this period, but the rate for non-Hispanic black teenagers aged 15–17 years has fallen more than one-half, from 86.1 per 1,000 in 1991 to 38.7 in 2003 (figure 3, table A). State-specific teenage birth rates are discussed later in this report.

Teenage pregnancy rates have fallen substantially since 1990, generally mirroring the declines in the teenage birth rates. Pregnancy rates are computed from the sums of live births, induced abortions, and fetal losses. Currently, teenage pregnancy rates are available through 2000, the most recent year for which detailed national abortion estimates are available (17–20). The teenage pregnancy rate in 2000 was 84.5 per 1,000 females aged 15–19 years, the lowest rate reported since 1976, when the Centers for Disease Control and Prevention, NCHS series of national estimates first became available (19,20). The rate has dropped 27 percent since its 1990 peak (116.3). The decline in the pregnancy rate during 1990–2000 is reflected in declines in live births and induced abortions, with larger declines reported for abortions.

New information recently reported from the 2002 National Survey of Family Growth (NSFG) suggests a number of factors that likely account for the falling pregnancy rates (21). Compared with the 1995 NSFG and the 1995 National Survey of Adolescent Males, the 2002 NSFG found significant declines in the proportions of teenage males, both younger and older, and the proportion of young adolescent



**Figure 3. Birth rates for teenagers by race and Hispanic origin for 1991 and 2003**

females who had ever had sexual intercourse. There were also important increases in the use of contraception, indicating more effective and consistent use. About three out of four teenagers used a method of contraception at first intercourse, and the overwhelming majority (83 percent of females and 91 percent of males) used a method at their most recent sex. The 2002 NSFG also documented increases in the use of highly effective hormonal methods such as Depo Provera<sup>TM</sup> and Lunelle<sup>TM</sup> and the use of dual methods, such as the condom with a hormonal method. Data from the CDC's Youth Risk Behavior Survey for school-age youth corroborate the findings reported by the NSFG (22). Over the past decade, many public and private efforts have focused teenagers' attention on the importance of pregnancy prevention through abstinence and responsible behavior (23,24).

**Women aged 20 years and over: women in their twenties—**The birth rate for women aged 20–24 years was 102.6 births per 1,000 women in 2003, down 1 percent from 2002 (103.6). This is the lowest birth rate for this age group on record for the United States (3). The rate has declined by 12 percent since 1990 (116.5) (figure 1, tables 3, 4, 8, and 9). The rate for women aged 25–29 years increased by 2 percent in 2003, rising to 115.6 from 113.6 births per 1,000 women in 2002. The rate has fluctuated but has declined by 4 percent overall since 1990. Women in their twenties, the principal childbearing ages, historically account for the largest share of all births. The proportion of births to these women has declined over the last three decades, falling from 65 percent in 1980 to 52 percent in 2003.

**Women in their thirties—**The birth rate for women aged 30–34 years rose 4 percent in 2003 to 95.1 births per 1,000 from 91.5 in 2002 and reached the highest rate since 1964 (3) (tables 4 and 9). This rate has generally been on the rise since the mid-1970s (52.3 in 1975). Between 1991 and 2003 the rate rose by 20 percent. Increases since 1991 were uninterrupted except for a slight decline in 2002. Between 1991 and 2003 the number of births to women aged 30–34 years increased by 10 percent, despite an 8 percent decrease in the population of women in this group. The birth rate for women aged 35–39 years also rose in 2003, to 43.8 births per 1,000 women from 41.4 in 2002, an increase of 6 percent and the highest rate for this age since 1965 (3). Between 1990 and 2003 the rate rose by 38 percent, with an average increase of 2.5 percent per year. The rate for this age group has increased each year since 1978. The number of births to women aged 35–39 years reached another record high in 2003 (467,642). Since 1990 the number of births to this age group has risen by 47 percent, compared with a 7 percent increase in the population of women 35–39 years of age (16,25).

**Women in their forties—**The birth rate for women aged 40–44 years rose by 5 percent in 2003 to 8.7 births per 1,000 women, the highest rate reported since 1969 (3). The rate for this age group has more than doubled since 1984 (3.9), the most recent low. Between 1990 and 2003 rates for this age group rose by 58 percent, from 5.5. The number of births to women aged 40–44 years has increased by over 100 percent, compared with a 30-percent increase in the population. The 2003 birth rate for women aged 45–49 years was 0.5, unchanged from 2002. The rate has been stable since 2000, but has increased from 0.2 since 1991. The number of births to women aged 45–49 years increased by 6 percent (from 5,224 to 5,522) between 2002 and 2003, nearly four times that for 1990 (1,638) and the highest reported since 1945 (5,554) (3).

**Births to women aged 50 years and over—**In 2003 there were 323 births to women aged 50–54 years, a 23-percent increase over the

263 births reported for 2002 (tables 2 and 7). Since 1997, when data for this age group became available again, the number of births for women aged 50–54 years has increased with an average annual gain of 14 percent. (From 1964 to 1996 age of mother was imputed if the reported age was under 10 years or 50 years or over; see “Technical Notes.”) Despite the increase, the number of births to women aged 50–54 years remains too small to compute age-specific birth rates. In computing birth rates by age of mother since 1997, births to women aged 50–54 years have been included with births to women 45–49 years; the denominator for the rate is women aged 45–49 years.

The increase in birth rates for women 35 years of age and over during the last 20 years has been linked, at least in part, to the use of fertility-enhancing therapies (26). The proportion of childless women aged 35–44 years reporting impaired fecundity who sought fertility treatment rose considerably from 1982 to 1995, although the proportion has leveled off from 1995 to 2002 (27,28). In 2003, 1 out of 18 births to women aged 35 years of age and over was a multiple delivery, an outcome associated with infertility treatment, compared with 1 out of 33 births to women under 35 years of age (see section on “Multiple births”).

Among all women in 2003 birth rates by age of mother peak at age 25–29 years (115.6 births per 1,000 women). However, as in previous years, age-specific childbearing patterns differ markedly by race and Hispanic origin. Birth rates reached an apex at ages 20–24 years for Hispanic (163.4), non-Hispanic black (128.1), and American Indian women (110.0), whereas rates peaked at ages 25–29 years for non-Hispanic white women (110.8) and at 30–34 years for API women (114.6) (figure 4 and tables 3, 4, 8, and 9).

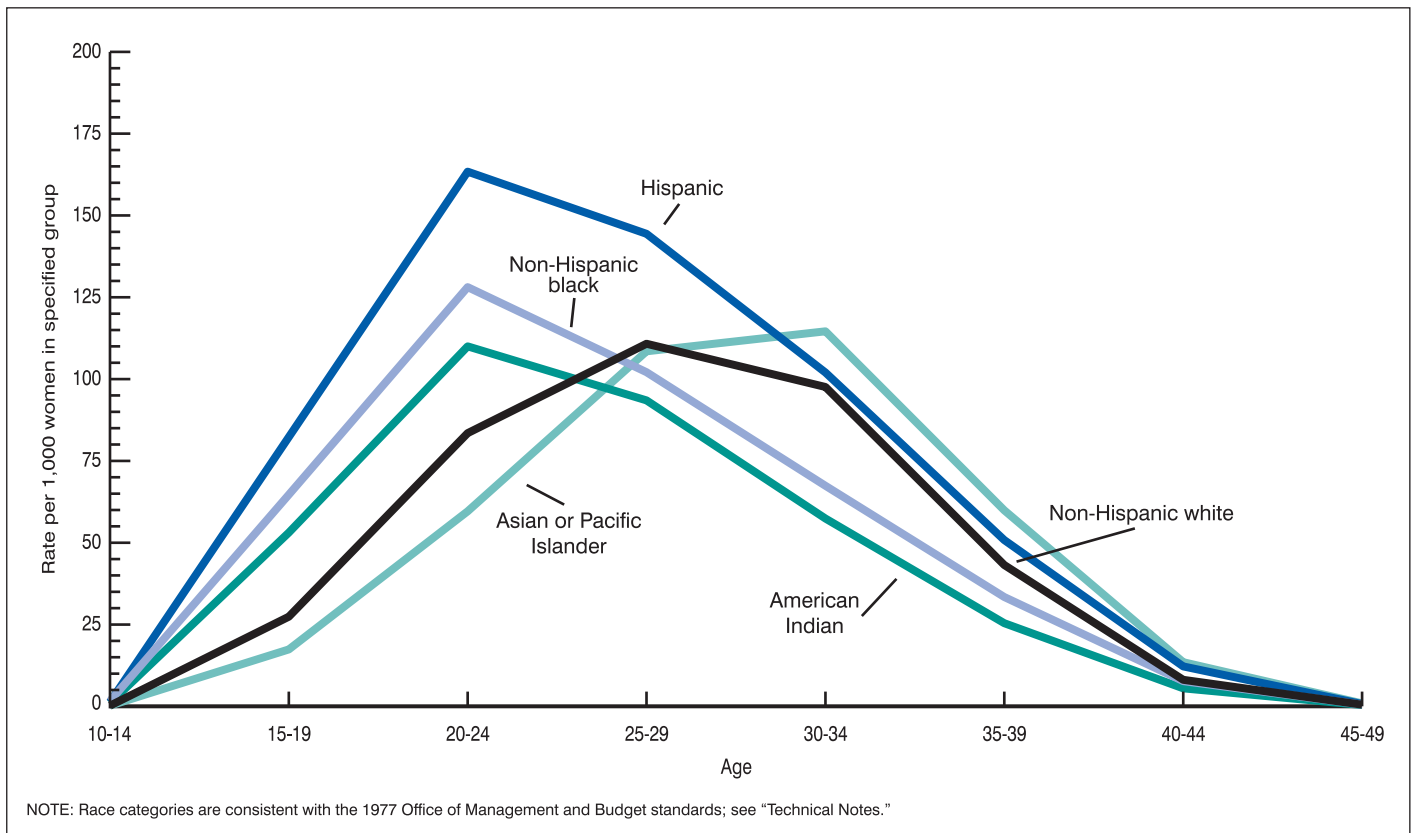
### Live-birth order

The first birth rate for women aged 15–44 years was 26.5 births per 1,000 women in 2003, a rise of nearly 3 percent from 2002 (25.8) (table 5). Between 1990 and 2002 the rate generally declined; the 2003 rate is 9 percent lower than that for 1990 (29.0).

First birth rates for women aged 10–14 and 15–19 years decreased by 14 and 2 percent, respectively, between 2002 and 2003; the first birth rates for women of all 5-year age groups 25–44 years increased, with the largest gains reported for women aged 35–39 years (11 percent) (table 3). The rates for women aged 20–24 and 45–49 years essentially were unchanged.

The rate of second- and third-order births for women aged 15–44 years rose by 1 and 2 percent, respectively, from 2002 to 2003, whereas the rates for fourth-, sixth-, seventh-, and eighth- and higher-order births were unchanged. The rate for fifth-order births increased from 1.5 to 1.6.

Another useful measure in interpreting childbearing patterns is the mean age at first birth. The mean is the arithmetic average of the age of mothers at the time of birth and is computed directly from the frequency of first births by age of mother. In 2003 the mean age of first-time mothers was 25.2 years, slightly higher than the previous record high set for the United States in 2002 (25.1 years) (table B). Mean age at first birth rose for nearly all race and Hispanic origin groups. However, considerable variation still exists. API women had the highest mean age at first birth in 2003, 28.3 years, whereas American Indian women had the lowest, 21.8 years. The average age of first-time mothers was 26.2 years for non-Hispanic white, 22.7 years for non-Hispanic black, and 23.1 years for Hispanic women. (Data not shown.)



**Figure 4. Birth rates by age, race, and Hispanic origin of mother: United States, 2003**

### Total fertility rate

The **total fertility rate** (TFR) summarizes the potential impact of current fertility patterns on completed family size. The TFR estimates the number of births that a hypothetical cohort of 1,000 women would have if they experienced throughout their childbearing years the same age-specific birth rates observed in a given year. The rate can be expressed as the average number of children that would be born per woman. Because it is computed from age-specific birth rates, the TFR is age adjusted and can be readily compared for populations across time or among geographic areas.

In 2003 the TFR was 2,042.5 (or 2.04 births per woman), 1 percent higher than the 2002 rate, 2,013.0 (tables 4 and 9). The TFR has

declined by 2 percent since 1990 when the rate was at its most recent high, 2,081.0. Between 1990 and 2003 the TFR has fluctuated, rising briefly from 1997 to 2000. The rise in the TFR between 2002 and 2003 is the result of increases in age-specific birth rates for women 25 and 44 years of age (see previous section on "Age of mother").

TFRs for most **race and Hispanic origin** groups also increased between 2002 and 2003, with rates rising 2 to 3 percent for non-Hispanic white, Hispanic, and API women. The rate for American Indians was essentially unchanged, whereas the rate for non-Hispanic black women declined 1 percent. Rates for Mexican, other Hispanic, and Cuban women increased 3, 5, and 6 percent, respectively, whereas the rate for Puerto Rican women was down 5 percent.

Differences among these groups are even more apparent when their rates are compared with the replacement rate. The replacement rate is the rate at which a given generation can exactly replace itself (2,100 births per 1,000 women). The U.S. TFR was below the replacement rate for the 32d consecutive year in 2003. Whereas the TFRs for most groups were below replacement in 2003, the rate was above replacement for Hispanics overall (2,785.5), and for Mexican (2,957.5) and other Hispanic women (2,733.0) (tables 4, 9, 13, and 14). State-specific TFRs for 2003 are discussed in the next section.

### Births and birth rates by State

As noted previously, in 2003 the number of births in the United States increased by nearly 2 percent from the previous year. The increase in the national number of births was widespread across States; 24 States reported significant increases in their number of births. States with increased numbers of births were observed in nearly every region of the country. See table 10 for 2003 data.

**Table B. Mean age of mother at first birth by race and Hispanic origin of mother: United States, 2003**

Race and Hispanic origin of mother	Mean age
Total . . . . .	25.2
Asian or Pacific Islander . . . . .	28.3
Cuban . . . . .	26.8
Non-Hispanic white . . . . .	26.2
Central and South American . . . . .	25.3
Puerto Rican . . . . .	22.7
Non-Hispanic black . . . . .	22.7
Mexican . . . . .	22.5
American Indian . . . . .	21.8

NOTES: Mean age at birth is the arithmetic average of the age of mothers at the time of the birth, computed directly from the frequency of births by age of mother and birth order (first). Race and Hispanic origin are reported separately on birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards; see "Technical Notes."



In 2003 CBRs by State ranged from 10.6 births per 1,000 total population (Maine and Vermont) to 21.2 (Utah). Between 2002 and 2003 rates increased significantly in seven States (California, Florida, Indiana, Maryland, Missouri, Pennsylvania, and Wisconsin) and were essentially unchanged in all other reporting areas. The rate declined significantly in Puerto Rico.

State-specific fertility rates, which provide a more refined picture of geographic variation in childbearing, ranged from a high of 92.2 births per 1,000 women aged 15–44 years in Utah to a low of 51.1 in Vermont. Fertility rates increased significantly for 31 States in 2003. Puerto Rico was the only reporting area for which the fertility rate fell significantly between 2002 and 2003.

State-specific TFRs for 2003, which provide a summary of lifetime fertility, are also shown in [table 10](#). Fertility tends to be higher for States in the western half of the country. In 2003, as in previous years, the majority of western States reported TFRs significantly above the national rate, whereas the majority of eastern States reported TFRs significantly below the national rate. In 2003 State-specific TFRs ranged from a high of 2,566.5 (2.6 births per woman) in Utah to a low of 1,683.0 (1.7 births per woman) in Vermont.

### Birth rate for teenagers by State

In 2003 State-specific birth rates per 1,000 teenagers aged 15–19 years ranged from 18–19 in New Hampshire and Vermont to 62–63 in Mississippi, New Mexico, and Texas ([tables C and 10](#)). Between 2002 and 2003 teen birth rates declined significantly in 13 States (California, Colorado, Florida, Georgia, Illinois, Maryland, New Jersey, New York, North Carolina, Oregon, Rhode Island, Texas, and Vermont), the District of Columbia, and Puerto Rico. Birth rates were essentially unchanged for all other States and territories. Since 1991 teen birth rates have declined significantly for all reporting areas. More detailed analysis of trends and variations in teenage birthrates by age, race, and Hispanic origin are available elsewhere (29,30).

### Sex ratio

There were 2,093,535 male live births in 2003 compared with 1,996,415 female live births. These numbers yield a sex ratio of 1,049 male per 1,000 female live births ([tables 13 and 14](#)). The sex ratio has fluctuated narrowly over the past 60 years, ranging from 1,046 to 1,059. A recent report, however, has shown a decline in the ratio after 1971 (31). Similar to previous years, the sex ratio was the highest for births to API mothers (1,067), followed by births to non-Hispanic white (1,053), American Indian (1,047), Hispanic (1,041), and non-Hispanic black (1,036) mothers.

### Month of birth

In 2003 the average number of births per month was 340,829. The actual number of births per month ranged from 307,248 in February to 364,226 in July ([table 15](#)). Observed monthly birth and fertility rates, which take into account the different number of days in the month, increased significantly for most months between 2002 and 2003. Observed birth rates were lower, however, for January, August, and November, and unchanged in February. Observed fertility rates increased in 2003 for all months except January, August, and November, which were essentially unchanged. Observed fertility rates were at their highest in September (70.3) and lowest in November

and January (62.5), consistent with the well-established pattern of birth rates peaking in the late summer before falling in the late fall and winter.

### Day of the week of birth

On average 11,205 infants were born per day in 2003. However, the average number of births varied appreciably by day of the week. In 2003, as in previous years, the average number of births was the highest on Tuesday (13,001) and lowest on Sunday (7,563) ([table 16](#)).

An index of occurrence can be used to measure the variation in the daily pattern of births. The index is defined as the ratio of the average number of births per day of the week to the average number of births per day of the year with the base set at 100. In 2003 Tuesday had the highest index at 116.0, indicating that there were 16.0 percent more births on Tuesday than on the average day. As in previous years, infants in 2003 were much less likely to be born on weekends—Sunday (67.5) followed by Saturday (76.8).

This weekend deficit is evident for both vaginal and cesarean deliveries but is notably larger for cesarean births that had a Tuesday index of 123.4 and a Sunday index of 49.0. In 2003 the index of occurrence for vaginal births on Sunday was 74.7, compared with 59.5 for primary cesareans and 32.5 for repeat cesareans. Since 1989, when these data first became available, the weekend birth deficit for cesarean births has grown. Between 1989 and 2003 the Sunday index for all cesarean deliveries fell 19 percent, from 60.7 to 49.0.

### Births to unmarried women

The **birth rate for unmarried women** jumped 3 percent in 2003, to 44.9 births per 1,000 unmarried women aged 15–44 years. The 2003 rate was the highest since 1994 (46.2). The rate indicates the risk that an unmarried woman will give birth. This rate had changed relatively little during the period 1995–2002 ([tables D, 17, and 18; figure 5](#)). Largely as a result of the rising birth rate, the **number of births to unmarried women** rose 4 percent in 2003, to 1,415,995, the highest number ever in the more than six decades for which national statistics are available (32). The number rose steadily through the mid- to late 1990s, principally as a result of increases in the number of unmarried women in the reproductive ages (33–35). The rise in 2003 reflects, in small part, the population growth, but mostly it reflects the increase in the birth rate. In 2003, **34.6 percent of all births were to unmarried women**. This percentage has risen steadily since the late 1990s, following several years of essentially no change ([table D](#)). About 42 percent of first births in 2003 were to unmarried women (tabular data not shown).

Since 1998 all States except Michigan and New York report mother's marital status on the birth certificate through a direct question in the birth registration process. Michigan and New York infer the mother's marital status on the basis of other information on the birth certificate; see "Technical Notes" for detailed information.

Birth rates for unmarried women by age continue to be highest for women in their twenties ([tables 17 and 18](#)). In 2003 the rates were 71.2 per 1,000 for women aged 20–24 years and 65.7 for women aged 25–29 years. The next highest rate was 57.6, for older unmarried teenagers aged 18–19 years. Rates for other age groups are considerably lower.

**Table C. Birth rates for teenagers 15–19 years by State, 1991 and 2003, and percentage change 1991–2003: United States and each State and territory**

[Birth rates per 1,000 estimated female population aged 15–19 years in each area]

State	1991	2003	Percent change, 1991–2003	State	1991	2003	Percent change, 1991–2003
United States <sup>1</sup>	61.8	41.6	–33	Nebraska	42.4	36.0	–15
Alabama	73.6	52.4	–29	Nevada	74.5	53.0	–29
Alaska	66.0	38.6	–42	New Hampshire	33.1	18.2	–45
Arizona	79.7	61.1	–23	New Jersey	41.3	25.5	–38
Arkansas	79.5	59.0	–26	New Mexico	79.5	62.7	–21
California	73.8	40.1	–46	New York	45.5	28.2	–38
Colorado	58.3	43.9	–25	North Carolina	70.0	49.0	–30
Connecticut	40.1	24.8	–38	North Dakota	35.5	26.8	–25
Delaware	60.4	44.9	–26	Ohio	60.5	39.4	–35
District of Columbia	109.6	60.3	–45	Oklahoma	72.1	55.9	–23
Florida	67.9	42.5	–37	Oregon	54.8	34.4	–37
Georgia	76.0	53.5	–30	Pennsylvania	46.7	31.2	–33
Hawaii	59.2	37.3	–37	Rhode Island	44.7	31.3	–30
Idaho	53.9	39.3	–27	South Carolina	72.5	51.5	–29
Illinois	64.5	40.4	–37	South Dakota	47.6	34.7	–27
Indiana	60.4	43.5	–28	Tennessee	74.8	53.5	–29
Iowa	42.5	31.9	–25	Texas	78.4	62.9	–20
Kansas	55.4	41.2	–26	Utah	48.0	34.6	–28
Kentucky	68.8	49.6	–28	Vermont	39.2	18.9	–52
Louisiana	76.0	56.0	–26	Virginia	53.4	36.1	–32
Maine	43.5	24.9	–43	Washington	53.7	31.5	–41
Maryland	54.1	33.3	–38	West Virginia	58.0	44.8	–23
Massachusetts	37.5	23.0	–39	Wisconsin	43.7	31.3	–28
Michigan	58.9	34.4	–42	Wyoming	54.3	40.8	–25
Minnesota	37.3	26.6	–29	Puerto Rico	72.4	59.5	–18
Mississippi	85.3	62.5	–27	Virgin Islands	77.9	50.9	–35
Missouri	64.4	43.2	–33	Guam	95.7	64.3	–33
Montana	46.8	35.0	–25	American Samoa	---	40.4	---
				Northern Marianas	---	42.3	---

--- Data not available.

<sup>1</sup>Excludes data for the territories.

Largely reflecting fertility differentials for all women, **rates for unmarried women likewise vary considerably by race and ethnicity**. In 2003 the rate for Hispanic women was highest, at 92.2 per 1,000, followed by black women at 66.3, non-Hispanic white women at 28.6, and API women at 22.2. These differences have changed little in recent years. Birth rates by race and Hispanic origin increased slightly or were generally stable in 2003 ([table 18](#)). The largest 1-year increase was the rate for Hispanic women, up 5 percent, close to the level last reported in 1992 (92.8). The rate for unmarried black women was essentially unchanged; this rate had fallen 27 percent during 1989–2002. Rates for non-Hispanic white and API women changed little in recent years.

Birth rates for unmarried black and Hispanic teenagers are relatively similar, but at ages 20 years and over the rates increasingly diverge. In age groups 30–34 years and over, the rates for unmarried Hispanic women are about double the rates for unmarried black women. Among age groups under 20 years, API women have the lowest rates, whereas at ages 20 and over, rates are lowest for non-Hispanic white women.

The overall increase in the nonmarital birth rate from 2002 to 2003 entirely reflects increases in rates for women aged 20 and over, especially the 7- to 8-percent increases for women 25 and over. Rates for unmarried teenagers continued to fall. Overall, the birth rate for unmarried teenagers has dropped 24 percent since the 1994 peak, but the rate of decline for younger teenagers has considerably outpaced that for older teenagers, 36 percent compared with 17 percent.

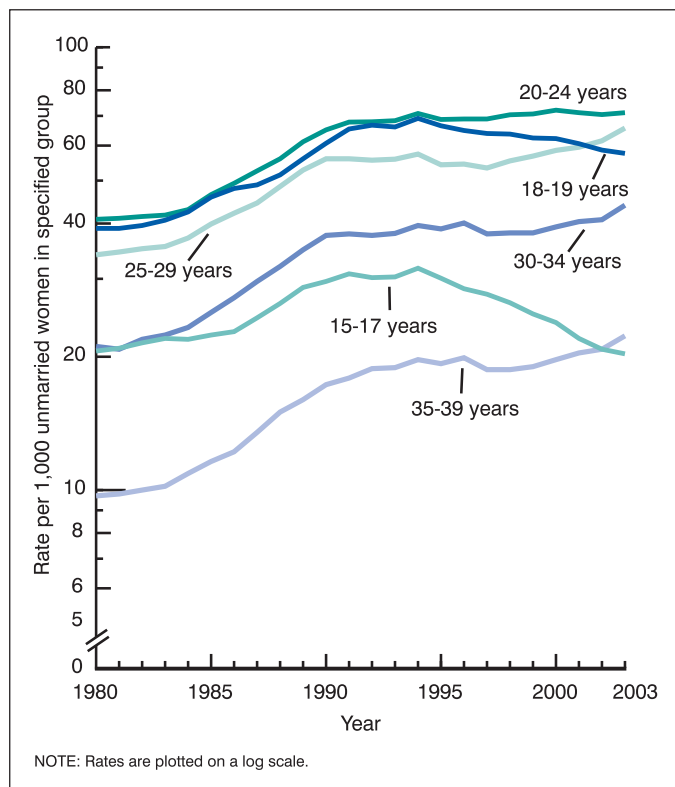
Among teenage population subgroups, nonmarital birth rates have generally fallen since 1994, although rates for black teenagers have been declining since 1991. The largest declines have been reported for younger teenagers, 15–17 years. The rate for young black teenagers has plummeted more than one-half since 1991, whereas the rates for young Hispanic and non-Hispanic white teenagers fell 23 and 39 percent, respectively.

The **proportions of all births that are to unmarried women** increased in 2003 in the largest race or Hispanic origin groups. They were 15.0 percent for API women, 23.6 percent for non-Hispanic white women, 45.0 percent for Hispanic women, 61.3 percent for American Indian women, and 68.5 percent for non-Hispanic black women.

**Numbers and proportions of births to unmarried women by race and Hispanic origin and by State** are shown in [table 19](#). Numbers increased in the majority of areas; increases amounted to 5 percent or more in 12 States and American Samoa, and they declined in the District of Columbia, Vermont, Puerto Rico, and the Virgin Islands. Proportions rose in the majority of States with increases amounting to 3 percent or more in 13 States and American Samoa. There were declines in the District of Columbia, Montana, North Dakota, South Dakota, Vermont, and the Northern Marianas.

### Age of father

The **birth rate per 1,000 men aged 15–54 years** was 48.9 in 2003, a slight increase from the all-time low of 48.4 reported in 2002



**Figure 5. Birth rates for unmarried women, by age of mother: United States, 1980–2003**

**Table D. Number, rate, and percentage of births to unmarried women and birth rate for married women: United States, 1980 and 1985–2003**

Year	Births to unmarried women			Birth rate for married women <sup>3</sup>
	Number	Rate <sup>1</sup>	Percent <sup>2</sup>	
2003	1,415,995	44.9	34.6	88.1
2002	1,365,966	43.7	34.0	86.3
2001	1,349,249	43.8	33.5	86.7
2000	1,347,043	44.0	33.2	87.4
1999	1,308,560	43.3	33.0	84.8
1998	1,293,567	43.3	32.8	84.2
1997	1,257,444	42.9	32.4	82.7
1996	1,260,306	43.8	32.4	82.3
1995	1,253,976	44.3	32.2	82.6
1994	1,289,592	46.2	32.6	82.9
1993	1,240,172	44.8	31.0	86.1
1992	1,224,876	44.9	30.1	88.5
1991	1,213,769	45.0	29.5	89.6
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

<sup>1</sup>Births to unmarried women per 1,000 unmarried women aged 15–44 years.

<sup>2</sup>Percent of all births to unmarried women.

<sup>3</sup>Births to married women per 1,000 married women aged 15–44 years.

(table 20). Birth rates for males aged less than 25 years continued to decline; birth rates for fathers aged 15–19 and 20–24 years posted all-time lows of 16.9 and 73.5 per 1,000, respectively. Birth rates increased for men in the 25–54-year age groups and were unchanged for men aged 55 and over.

Information on age of father is often missing on birth certificates of children born to women less than 25 years of age and to unmarried women. In 2003 age of father was not reported for 13 percent of all births, 24 percent of births to all women less than 25 years of age, and 37 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

Information on educational attainment was reported on the birth certificates of all States and the District of Columbia in 2003. However, the education item on the 2003 Standard Certificate of Live Birth, implemented by Pennsylvania and Washington in 2003, has a different format than that of the 1989 standard certificate (see “Technical Notes”). As a result, education data for the States with the revised certificates are not comparable with the data for the States with the unrevised certificates. For this report, in order to compare the change over time, information on educational attainment for all years excludes data for Pennsylvania and Washington.

In 2003, 78.4 percent of women who gave birth had at least 12 or more years of schooling (a high school education), and 26.6 percent had 16 or more years of schooling (4 years of college), increases of less than 1 and 2 percent, respectively, from 2002 (table 21). The educational attainment of women giving birth (based on completed years of education at the time of birth) has increased substantially over the last few decades. Since 1990 the proportion of mothers with 16 or more years of schooling has increased by 52 percent. This trend, in part, reflects increases in educational attainment of all women during this time (36).

Although the overall trend in educational attainment has been on the increase, variations by race and ethnicity are still seen. In 2003, 88.5 percent of non-Hispanic white, 76.2 percent of non-Hispanic black, and 52.5 percent of Hispanic mothers had at least 12 years of schooling. Although the overall proportion of Hispanic mothers who have completed high school was comparatively low, variation among the specified Hispanic groups was wide, ranging from 46.4 percent of Mexican mothers to 88.5 percent of Cuban mothers. The percentage of American Indian and API mothers with at least 12 years of schooling was 69.5 and 90.1, respectively, in 2003 (tables 13, 14, and 21).

Maternal education has long been considered an important factor in fertility and maternal and infant health. The educational attainment of women has been shown to have a profound effect on the number of births and the risk of adverse birth outcome. Women with higher educational attainment are more likely to desire and give birth to fewer children, and they are less likely to engage in behaviors detrimental to health and pregnancy (27,29,37).

## Maternal Lifestyle and Health Characteristics

### Weight gain

Excessive and insufficient maternal weight gain during pregnancy can negatively influence pregnancy outcome. Inadequate weight gain has been associated with an increased risk of intrauterine growth retardation, shortened period of gestation, low birthweight (LBW), and perinatal mortality (38,39). High weight gain during pregnancy has been linked with an elevated risk of a large-for-gestational-age (LGA) infant, cesarean delivery, and long-term maternal weight retention (40). Based on the mother's body mass index (BMI), the Institute of Medicine (IOM) recommend that women who are underweight gain 28–40 pounds and those who are of normal weight gain 15–25 pounds. For extremely obese women, the IOM recommends a minimum weight gain of 15 pounds. However, the IOM recommends that weight gain goals be tailored to individual needs (41).

Median weight gain for 2003 was stable at 30.5 pounds, unchanged for 6 years. This measure has varied by only one-tenth of a pound since 1990. Among women with at least full-term births (40 weeks of gestation or more), 10.8 percent gained less than 16 pounds, considered inadequate for most women (41); 21.7 percent had weight gains of more than 40 pounds, considered excessive in most cases (table 22). Between 1989 (when data became available) and 2003, the percentage of all mothers who gained less than 16 pounds increased 31 percent (from 9.4 to 12.3), and the percentage who gained over 40 pounds rose by a similar amount (from 15.1 to 19.7). In short, in 2003 nearly one-third of mothers had weight gains outside of the guidelines recommended by the IOM (41).

BMI is calculated from a woman's prepregnancy weight and height, neither of which is available from the 1989 revision of the U.S. birth certificate, which only captures information on total weight gained during pregnancy. Therefore, it is not possible from these data to determine whether the weight gain was within the recommendations for the mother's BMI. The 2003 revision of the birth certificate does capture the mother's BMI directly (5). These data will be available later this year for the two States that implemented the 2003 revision of the Certificate of Live Birth.

Weight gained during pregnancy continues to differ widely by racial and ethnic group. Non-Hispanic white women and Asian and Pacific Islander women have relatively low proportions of women with weight gains of less than 16 pounds (10.2 and 9.6 percent, respectively), whereas non-Hispanic black women and American Indian women have higher proportions of women with inadequate weight gains (17.7 and 17.3 percent, respectively) (tables 24 and 25). Among the Hispanic subgroups, Mexican mothers were more than twice as likely to gain less than 16 pounds than Cuban mothers (16.9 compared with 7.8 percent) (table 25).

Moderate maternal weight gain and healthy birthweight are positively correlated, as demonstrated by a general decline in the percentage of LBW infants as maternal weight gain increases (from 13.9 percent for weight gains of less than 16 pounds to 5.6 percent for gains of 36–39 pounds) (table 23). The declining trend reverses slightly for weight gains of 40 or more pounds, but it still does not approach the level of risk for inadequate gain.

### Medical risk factors

In 2003 the most frequently reported medical risk factors were **pregnancy-associated hypertension** (37.4 per 1,000 live births), **diabetes** (32.8), and **anemia** (23.8) (table 26). These have been the most frequently reported risk factors, with minor variation in order, since 1989 when these data became available from the birth certificates. After steadily rising during the 1990s (from 26.9), the rate of pregnancy-associated hypertension has been essentially unchanged since 2000. Rates for diabetes and anemia have risen nearly 40 percent for 1990–2003. For comparability, 1990 rates for certain medical risk factors exclude data for Pennsylvania and Washington, which implemented the 2003 Standard Certificate of Live Birth; see table 26 and "Technical Notes."

Pregnancy-associated hypertension, chronic hypertension, and eclampsia are all closely related hypertensive disorders, but the latter two are rarer conditions. The rate for **chronic hypertension** has increased since 1990 (6.5 in 1990; 8.8 in 2003), whereas the **eclampsia rate** has declined (4.0 in 1990; 3.0 in 2003).

During pregnancy, medical risk factors can contribute to serious complications and maternal and infant morbidity and mortality, particularly if not treated properly (42–44). Sixteen medical risk factors that can affect pregnancy outcome are separately identified on the 1989 revision of the Certificate of Live Birth used by 48 States and the District of Columbia for 2003 (table 26). Birth certificate data may underreport or incorrectly report medical risk factor prevalence because of a lack of adherence to uniform definitions and difficulty in interpreting data from medical records (45). Rates for rarely occurring medical risk factors and for smaller population groups can vary from year to year and should be used with caution.

The reported rate of **hydramnios/oligohydramnios** (the excess or shortage of amniotic fluid) has increased consistently during the 1990s, more than doubling between 1990 and 2003, from 5.9 to 13.8. This condition has been associated with maternal diabetes. **Acute or chronic lung disease** (e.g., asthma, tuberculosis) also has risen dramatically. The rate of lung disease more than quadrupled between 1990 and 2003 (from 3.0 to 12.1 per 1,000) and has increased for all age groups, most notably for younger women. In the early 1990s this condition was slightly more prevalent in older women.

The risk of having a medical condition during pregnancy often differs by maternal age (table 26). For example, teenage mothers are more than one-and-a-half times as likely to have anemia during pregnancy compared with women aged 40 years and over (3.3 compared with 2.0 percent). Older mothers, however, are much more prone to chronic conditions such as diabetes (7.6 for mothers aged 40 years and over compared with 1.0 for mothers under 20 years), chronic hypertension (2.6 compared with 0.3), and cardiac disease (0.9 compared with 0.3). Other risk factors, however, such as lung disease and pregnancy-associated hypertension, have higher rates at both the oldest and youngest ages.

The levels of medical risk factors during pregnancy can also vary greatly by maternal race and ethnicity (tables 27 and 28). In 2003 American Indian women had higher rates of anemia than other groups (52.4 per 1,000 compared with 19.9 percent for non-Hispanic white women). Rates for diabetes ranged from a low of 30.5 per 1,000 for non-Hispanic black women to a high of 55.1 for API women. Among Hispanic women, levels of diabetes were highest for Puerto Rican

mothers and those of other or unknown Hispanic origin; rates of pregnancy-associated hypertension were highest for Cuban, Puerto Rican, and other or unknown Hispanic origin mothers ([table 28](#)).

### Tobacco use during pregnancy

**Smoking during pregnancy** was reported by 10.7 percent of women giving birth in 2003. This represents a decline from the 11.2 percent measured for the same group of reporting areas in 2002 (47 States and the District of Columbia). Among women who smoked during pregnancy in 2003, 26 percent smoked half a pack or more of cigarettes, unchanged from 2002 for the same reporting area.

Pennsylvania and Washington implemented the 2003 revision of the U. S. Standard Certificate of Live Birth in 2003. The tobacco use question on the 2003 revision differs from the question on the 1989 revision that is in use in the other States (see “Technical Notes”). Therefore data for Pennsylvania and Washington are not included in the tabulations in this report. In addition, California did not report smoking on the birth certificate in 2003. The reporting area accounted for 81 percent of U.S. births in 2003 (see [tables 29–32 for 2003 data](#)).

Findings from other studies suggest that smoking is somewhat underreported on the birth certificate. Nonetheless, the trends and variations in maternal smoking based on birth certificate data are corroborated by data from surveillance data and nationally representative surveys (22,27,46). The question on smoking on the 1989 revision of the birth certificate lacks a specific time reference and the source of information varies, thus affecting consistency and reliability of reporting. It is believed that the new question on prenatal smoking will provide much higher quality information because it has components for each trimester of pregnancy, thus affording women an opportunity to report changes in their smoking behavior (47–49).

Smoking during pregnancy has long been linked to adverse pregnancy outcomes, including LBW, intrauterine growth retardation, miscarriage, and infant mortality, as well as negative consequences for child health and development (50). These adverse outcomes in turn are associated with substantial economic and social costs (51).

Women in age groups 18–24 years have the highest smoking rates, a pattern that has been reported for many years. In 2003, 17.1 percent of teenagers 18–19 years and 16.1 percent of women in their early twenties reported smoking. Even among younger teenagers 15–17 years, one in eight were smokers. Rates are sharply lower for women in age groups 25–29 years and over.

**Smoking rates differ sharply among racial and Hispanic origin populations ([tables 24 and 25](#)).** The highest rates reported were for American Indian and non-Hispanic white women, 18.1 and 14.3 percent, respectively. Rates for other groups were 8.3 percent for non-Hispanic black; 7.9 percent for Puerto Rican; and 2 percent or less for Cuban, Mexican, and Central and South American women.

Women who have attended but not completed high school have the highest smoking rates among education subgroups: 22.8 percent reported smoking in 2003. More than 4 in 10 non-Hispanic white women in this category were smokers ([table 31](#)). Among non-Hispanic white women 20 years of age and over in the same educational group, nearly half were smokers (46.9 percent; tabular data not shown).

As noted, smoking during pregnancy has been repeatedly linked to elevated risk of low infant birthweight and a number of other adverse pregnancy outcomes (52,53). In 2003, 12.4 percent of babies born to smokers compared with 7.7 percent of babies born to nonsmokers were

LBW (less than 2,500 grams; 5 lb 8 oz) ([table 32](#)). The gap is almost twofold for maternal age groups 20–24 years and over, with a slightly smaller differential for teenage mothers, whose risk for LBW is already higher (see [table 45](#)). Further, there is no safe level of smoking. Even among births to women who smoked fewer than 6 cigarettes daily, LBW was 53 percent higher than among births to women who did not smoke (11.8 percent compared with 7.7 percent). About one-third of all smokers in 2003 smoked fewer than 6 cigarettes daily ([table 29](#)).

### Alcohol use during pregnancy

Alcohol use during pregnancy is a major risk factor for poor birth outcome, independent of other maternal health risk and behavior factors (54,55). Questions on alcohol use are included on the birth certificates of the District of Columbia and all States except California, Pennsylvania, and Washington. This reporting area accounted for 81 percent of U.S. births in 2003.

Unfortunately, alcohol use is substantially underreported on the birth certificate, compared with data collected in nationally representative surveys of pregnant women. Only 0.7 percent of women giving birth in 2003 reported alcohol use during pregnancy, down from 0.8 percent in 2002 for the same reporting area ([data for 2003 shown in \[tables 24 and 25\]\(#\)](#)).

According to the most recently conducted Behavioral Risk Factor Surveillance System (BRFSS) survey, 12.8 percent of women reported alcohol use during pregnancy in 1999 compared with 1.0 percent based on 1999 birth certificate data (56,57). The BRFSS data indicate that alcohol use declined during the late 1990s; however, no decline in binge drinking was found (57).

The birth certificate question on alcohol use from the 1989 revision is evidently not sensitive enough to measure this behavior accurately. This is unfortunate because alcohol use is clearly a critical risk factor for poor birth outcome, and it is implicated as well in delayed infant and child development (54,55). The question wording as well as the lack of specific time reference for the birth certificate questions are probably factors contributing to the underreporting. In addition, the stigma of maternal alcohol use likely contributes to the underreporting (58,59).

## Medical Services Utilization

### Prenatal care

National measures for prenatal care in this report exclude data for Pennsylvania and Washington, which implemented the 2003 revision to the U.S. Standard Certificate of Live Birth (revised States). Data for all other reporting areas are based on the 1989 revision to the U.S. Standard Certificate of Live Birth (unrevised States). It was necessary to exclude data for these two revised States from the U.S. totals because the question on the timing of prenatal care was changed between the 1989 and 2003 revisions and because of likely changes in the sources of these data. As a result, 2003 prenatal care data for the revised States are not comparable with data for the unrevised States. Therefore, unless otherwise noted, data presented in this section are based on the 48 unrevised States. See “Technical Notes.”

The proportion of women beginning prenatal care within their first trimester of pregnancy improved slightly from 83.7 percent for 2002 to 84.1 percent in 2003. (See [tables 24, 25, and 33–35](#).) Timely initiation

of prenatal care has been on a modest upswing in recent years, rising 11 percent since 1990 (see [table E](#)). The percentage of women beginning care in the last trimester of pregnancy, or with no prenatal care at all, declined slightly from 3.6 to 3.5 percent between 2002 and 2003; this measure has dropped from 6.1 percent since 1990. Appropriate prenatal care can enhance pregnancy outcome by providing health care advice and managing chronic and pregnancy-related health conditions (60–62).

Timely prenatal care initiation improved slightly among each of the largest racial and ethnic groups for 2002–03; non-Hispanic white (89.0 percent for 2003), non-Hispanic black (75.9 percent), and Hispanic (77.5 percent). Since 1990 substantial gains of at least 20 percent are seen in first trimester care receipt among non-Hispanic black, Hispanic, and American Indian women (see [tables E, 24, and 25 for 2003 data](#)). Concurrent declines over this time period in the percentage of women with late or no care have also been observed among these groups. These gains may be linked in part to the expansion of Medicaid for pregnant women in the late 1980s (63,64). Although differences by race and ethnicity in prenatal care receipt appear to be narrowing (64), large disparities persist. In 2003 more than 5–8 percent of Hispanic, non-Hispanic black, and American Indian mothers received late or no prenatal care compared with 2 percent of non-Hispanic white mothers.

Increases in prenatal care utilization between 1990 and 2003 are evident for the vast majority of States (data not shown). For 2003 three States—New Hampshire, Rhode Island, and Vermont—reported levels of first trimester care above 90 percent and levels of late or no care of less than 2 percent ([table 34](#)). Prenatal care utilization levels by

State were the least favorable in New Mexico, where only 68.9 percent of women received timely care and 8.1 percent began care late or had no care at all.

The “month that prenatal care began” item can be a useful measure of prenatal care timing, but it does not take into account the number of prenatal care visits or gestational age at delivery, important factors in determining the appropriateness of care. The Adequacy of Prenatal Care Index (APNCU) is an alternative measure based on recommendations from the American College of Obstetricians and Gynecologists that incorporates the month that care began, the number of prenatal visits, and adjusts for gestational age. It categorizes prenatal care utilization as follows: intensive, adequate, intermediate, and inadequate (65,66). According to the APNCU, one-third (32.5 percent) of all women had intensive utilization of prenatal care in 2003, that is, more than the recommended amount of care, and 11 percent of mothers received inadequate care ([table F](#)). This compares with levels of 25 and 18 percent, respectively, in 1990 (data not shown). Wide differences in utilization by race and Hispanic origin are also observed when prenatal care is measured using the APNCU. In 2003, 7 percent of non-Hispanic white mothers received inadequate care compared with 16–17 percent of Hispanic and non-Hispanic black women.

## Obstetric procedures

In 2003, as in past years, of the six specific obstetric procedures reported on the 1989 revision of the birth certificate, electronic fetal monitoring (EFM) was reported most frequently (85.4 percent, or more than 3.2 million live births) ([table 36](#)). This rate has climbed steadily since 1989 (68.1 percent). The benefits and risks of routine use of EFM remain controversial (67). The use of EFM and other obstetric procedures may be underreported on the birth certificate (68). For comparability, 2003 and 1989 rates for a number of the obstetric procedures discussed exclude data for Pennsylvania and Washington, which implemented the 2003 Standard Certificate of Live Birth. For reporting areas for the specific procedures, see [table 36](#) and “Technical Notes.”

In 2003, 67 percent of women who had live births received ultrasound, unchanged from 2002. The use of this procedure has also increased steadily since 1989, from 47.6 percent. Advances in this technology allow early screening for fetal anomalies (69).

The rate of induction of labor was unchanged between 2002 and 2003 (20.6 percent); this rate has more than doubled from the 1990 level of 9.5 percent. Between 1990 and 2000 the rate of induction rose steadily every year for all gestational ages, including preterm deliveries (less than 37 completed weeks of gestation). However, since 2000 the

**Table E. First trimester prenatal care by race and Hispanic origin of mother: Total of 48 States and the District of Columbia, 1990, 1995, 2000–2003**

Year	All races <sup>1</sup>	Non-Hispanic <sup>1</sup>		
		White	Black	Hispanic <sup>2</sup>
2003 . . . . .	84.1	89.0	75.9	77.5
2002 . . . . .	83.7	88.7	75.3	76.8
2001 . . . . .	83.3	88.6	74.5	75.8
2000 . . . . .	83.1	88.6	74.3	74.5
1995 . . . . .	81.2	87.1	70.6	70.8
1990 . . . . .	75.6	83.3	61.0	60.2

<sup>1</sup>Includes races other than white and black and origin not stated.

<sup>2</sup>Includes all persons of Hispanic origin of any race.

NOTES: Race categories are consistent with the 1977 Office of Management and Budget standards; see “Technical Notes.” Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth; see “Technical Notes.”

**Table F. Adequacy of Prenatal Care Utilization Index by race and Hispanic origin of mother: 48 States and the District of Columbia, 2003**

All races and Hispanic origins	Intensive use	Adequate	Intermediate	Inadequate
Total . . . . .	32.5	42.9	13.6	11.0
Non-Hispanic white . . . . .	34.0	46.0	12.7	7.2
Non-Hispanic black . . . . .	33.3	35.7	13.6	17.4
Hispanic . . . . .	29.3	39.2	15.5	16.0

NOTES: Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth; see “Technical Notes.” See reference 61 for calculation of this measure. Race categories are consistent with the 1977 Office of Management and Budget standards; see “Technical Notes.”

preterm induction rate has fluctuated but has generally trended downward (13.4 for 2003). In contrast, for infants born at 37–41 weeks of gestation, the induction rate increased each year, to 21.6 percent for 2003. For gestational ages greater than 41 weeks, the rate increased each year during 1990–2001 but has been the same for 2002 and 2003 (24.2 percent).

For 2002–03 rates of induction were stable or increased only slightly for most racial and ethnic groups (tables 27 and 28). However, induction levels more than doubled for each of the largest racial and ethnic groups between 1990 and 2003, and rates among groups continue to vary widely. For example, the rate for non-Hispanic white women (24.7 percent) was notably higher than that for non-Hispanic black women (17.5) (figure 6). The 2003 rates among the Hispanic subgroups ranged from 13.0 percent for Mexican to 19.3 percent for Cuban mothers. The total rate for API mothers has been stable since 2001 at about 14 percent. The rate for American Indian mothers, which had been over 20 percent since 2000, was down slightly in 2003 (19.9).

It has been suggested that increasing induction rates may be related, in part, to an increase in elective inductions (inductions with no medical or obstetric indication). In a study of variation in induction rates among hospitals and clinicians, 25 percent of inductions had no apparent medical indication (70). Induction (including elective induction) may increase the risk of cesarean delivery in nulliparous women (71).

The rate of stimulation of labor was 16.7 percent for 2003, a slight decrease from the 2002 rate (17.0). This rate increased 59 percent between 1989 and 1997 but has fluctuated only slightly since. The overall rate for tocolysis, the use of agents that inhibit or delay uterine activity for the management of preterm labor, has remained at

2.1 percent since 2001. The rate of tocolysis has been fairly stable since 1996. There is continuing discussion regarding the safety, efficacy, and appropriate use of these agents (72).

The overall rate for amniocentesis continued to decrease. The amniocentesis rate was 1.7 percent of all live births in 2003, down from 1.9 percent in 2002 and 3.2 percent in 1989. This continuing downturn may reflect increased use of noninvasive screening tests in place of amniocentesis (e.g., ultrasound and measurement of serum markers) (73).

### Complications of labor and/or delivery

The presence of moderate or heavy meconium staining was the complication most frequently reported on the birth certificate for 2003, as for previous years. This complication occurred at a rate of 48.6 per 1,000 births, or in about 5 percent of all deliveries. The presence of meconium during labor and delivery can directly alter the amniotic fluid, reduce antibacterial activity (and subsequently increase the risk of perinatal bacterial infection), and damage the infant's lungs if inhaled (43). Depending on the severity of the condition, other complications of labor and delivery reported on the birth certificate may require medical interventions and can also affect the health of the infant. Of the 15 complications of labor and/or delivery reported on the 1989 revision of the birth certificate, the other four most frequently reported complications for 2003 were as follows: breech/malpresentation (3.9 percent), fetal distress (3.8 percent), dysfunctional labor (2.9 percent), and premature rupture of membrane (PROM) (2.2 percent) (table 37). PROM rates have declined overall and among the largest race groups over the last 14 years. The rates

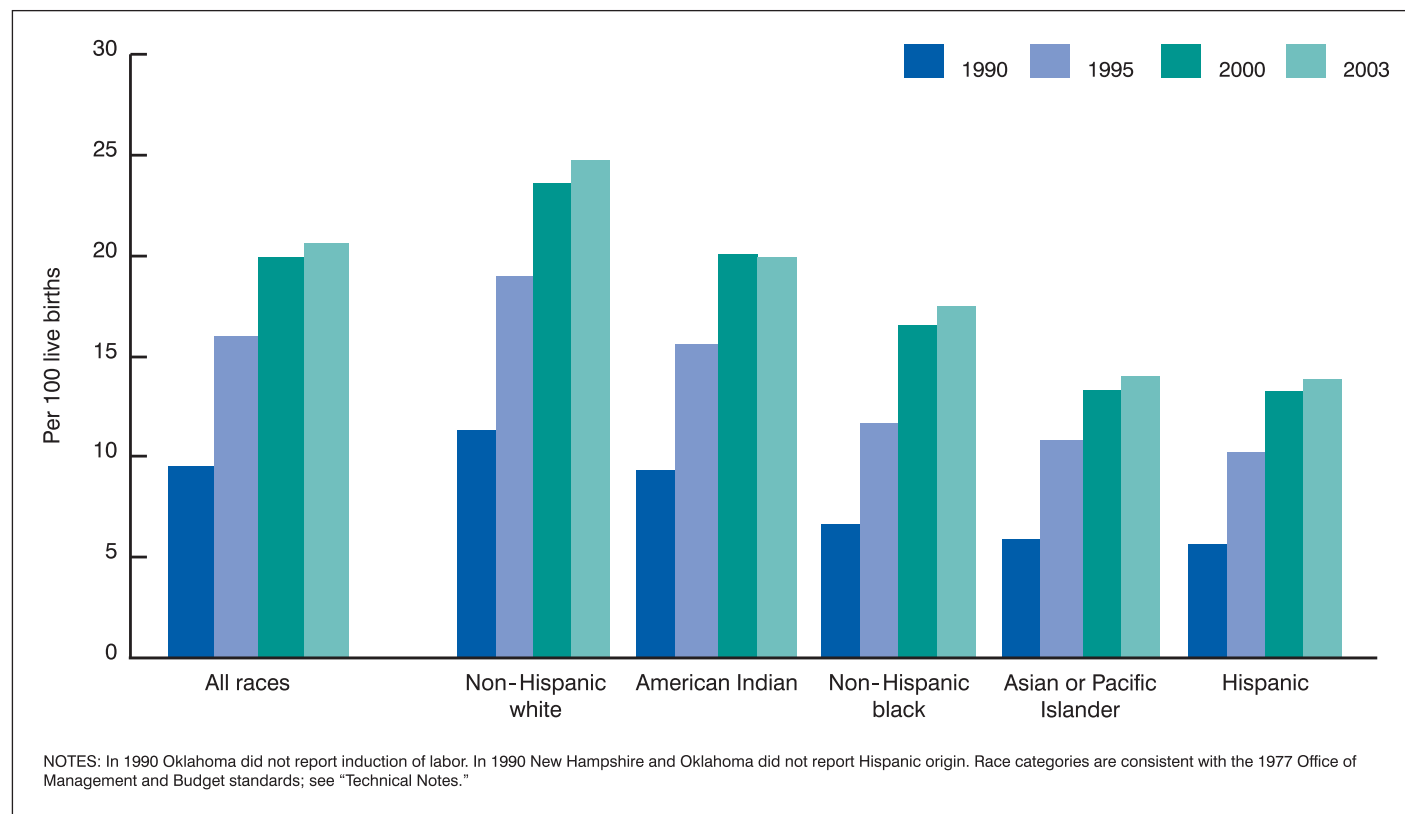


Figure 6. Rates of induction of labor by race and Hispanic origin of mother: United States, 1990, 1995, 2000, and 2003

of breech/malpresentation, on the other hand, have remained at the same level or increased slightly during this 14-year period.

Labor and delivery complication rates vary by race and Hispanic origin (tables 27 and 28). For example, non-Hispanic black women had higher meconium rates than non-Hispanic white women (63.9 in contrast to 42.8 per 1,000 live births). Non-Hispanic black women had substantially lower rates of cephalopelvic disproportion (10.7) and breech/malpresentation (31.6) (leading risk factors for cesarean delivery) compared with non-Hispanic white women (16.8 and 43.8, respectively). Differences in meconium rates also were evident among Hispanic subgroups. In 2003 rates for moderate/heavy meconium ranged from a low of 30.5 per 1,000 for Cuban mothers to a high of 58.8 for Central and South American mothers.

### Attendant at birth and place of delivery

In 2003 the percentage of all births delivered by physicians in hospitals (91.4 percent) was essentially the same as in 2002 (91.3) (table 38). As in previous years, in 2003 almost all doctor-attended births were attended by doctors of medicine (M.D.s). The percentage of physician-attended births attended by doctors of osteopathy (D.O.s) was 4.8 percent in 2003, unchanged from 2002. This level has grown steadily from 3.0 percent reported in 1989 (the first year data on D.O.s were available from the birth certificate).

The percentage of all births attended by midwives, which had increased steadily between 1975 and 2002 (from less than 1.0 percent to 8.1 percent), was about the same in 2003 (8.0 percent). The vast majority of all midwife-attended births in 2003 were by certified nurse midwives (CNMs) (94.6 percent). This rate was stable at 95.0 percent for 1996–2000 but has declined slightly since. Hospitals are the primary site for midwife-attended births (74). Because of underreporting of midwife-attended deliveries, these data should be considered lower estimates of the actual number of midwife-attended births (4,75).

Ninety-nine percent of all births in 2003 were delivered in hospitals, a rate that has been stable over the past several decades. Out-of-hospital births occurred predominantly in a residence (65 percent); 27 percent were in a freestanding birthing center in 2003. These levels have fluctuated only moderately since 1989. A national study of the safety of vaginal birth after cesarean (VBAC) in birthing centers suggests that birthing centers should refer women who desire a VBAC to a hospital for delivery and that hospitals should provide the option of a midwife-obstetrician team for such women (76).

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. As in previous years, in 2003 Hispanic women were more likely to have a midwife-attended hospital birth (9.1 percent) than non-Hispanic white and black women (6.8 and 7.0 percent, respectively).

Among the Hispanic subgroups, Cuban women had the highest rate of physician-attended hospital births (93.3 percent); the rates for Mexican, Puerto Rican, and Central or South American women ranged from 85 to 87 percent. Mexican, Puerto Rican, and Central or South American women also had the highest rates of midwife-attended hospital births (9–10 percent); Cuban women had the lowest rate (4 percent) (data not shown).

### Method of delivery

For 2003 the rate of cesarean delivery increased to 27.5 percent of all births, the highest rate ever reported in the United States. This rate is a 5 percent rise from 2002 (26.1 percent). After falling between 1989 and 1996, the cesarean rate had risen by one-third from the 1996 low of 20.7 (tables 39 and 40 and figure 7). Data from the National Hospital Discharge Survey show similar trends in cesarean delivery for 1990–2002 (77).

The escalation in the total cesarean rate is being driven by both the rise in the primary cesarean rate and the steep decline in the VBAC rate. Controversy continues on the risks, benefits, and long-term consequences of cesarean delivery, especially with regard to medically indicated or elective cesarean delivery and VBAC delivery (78–80).

The primary cesarean rate for 2003 (19.1 per 100 live births to women who had no previous cesarean) was 6 percent higher than in 2002 (18.0). This rate has increased by an average of 5 percent each year during 1998–2003 and was 31 percent higher than the low reported for 1996–97 (14.6). The rates for low-risk women (i.e., primiparous women with full-term, singleton deliveries, with vertex presentations) have also increased (81) by an average of 5 percent per year since 1998 (data not shown). Rates for women at even lower risk (i.e., those with singleton, full-term, vertex presentation births with no risk factors or complications of labor or delivery reported on the birth certificate) increased 67 percent for 1991–2001 (82). The increase in primary cesarean deliveries may be associated with nonclinical factors such as demographics, physician practice patterns, and maternal choice (79,83).

Among women with a first (primary) cesarean delivery, subsequent deliveries will be either a repeat cesarean or a VBAC. Between 2002 and 2003 the rate of VBAC fell 16 percent—from 12.6 to 10.6 per 100 women with a previous cesarean and the lowest level reported from birth certificate data. The VBAC rate has plummeted by 63 percent since 1996, after increasing by 50 percent between 1989 and 1996 (from 18.9 to 28.3 percent) (figure 8). This rate has declined by a similar magnitude among low-risk women (full-term, singleton deliveries with vertex presentations) (data not shown).

This steep decline in the rate of VBAC implies a corresponding rise in the rate of repeat cesarean deliveries (the rate of cesarean delivery per 100 women with a previous cesarean) (figure 8). The

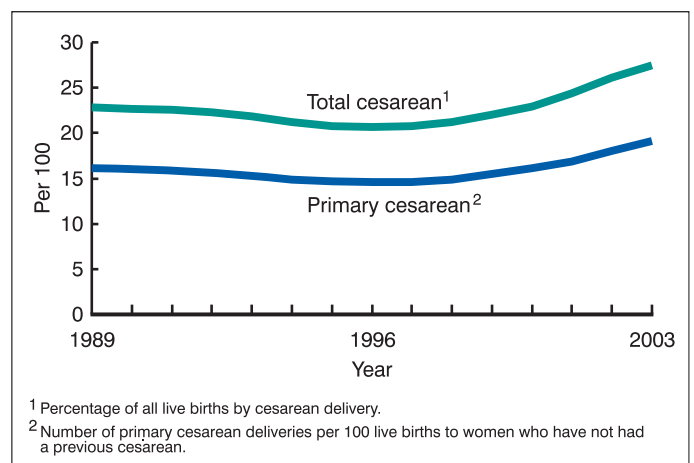
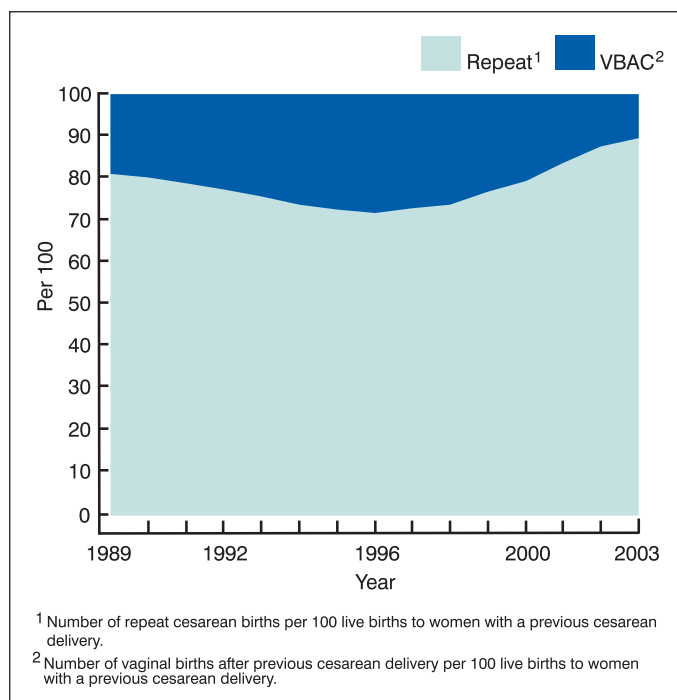


Figure 7. Total and primary cesarean rate: United States, 1989–2003





**Figure 8. Rates of repeat cesarean delivery and vaginal birth after cesarean delivery (VBAC): United States, 1989–2003**

repeat rate increased from 71.7 to 89.4 percent between 1996 and 2003; therefore, once a woman has a cesarean delivery, it is highly likely (there is an almost 90 percent chance) that subsequent deliveries will be by cesarean. The steep decline in the VBAC rate and, accordingly, the increase in the repeat cesarean rate may be related to reports of risks associated with VBAC, more conservative practice guidelines, legal pressures, as well as the continuing debate regarding the harms and benefits of vaginal birth compared with cesarean section (80, 83–86).

For 2002–03 the primary cesarean rate increased and the VBAC rate decreased for all age, racial, and ethnic groups (including subgroups). Between 2002 and 2003 the primary cesarean rate rose 7 percent for non-Hispanic white and non-Hispanic black women and 6 percent for Hispanic women. The primary rates for non-Hispanic black women (20.7) remained slightly higher than the rate for non-Hispanic white and Hispanic women (19.5 and 17.0, respectively). The VBAC rate declined by at least 14 percent for each group for 2003.

Until 2002 VBAC rates decreased and rates of repeat cesarean delivery increased with advancing maternal age. However, repeat cesarean rates and, therefore, VBAC rates have been essentially the same for all age groups since 2002. In 2003 at least 89 percent of women in all age groups who had a previous cesarean had a repeat cesarean delivery (data not shown).

As in past years, primary cesarean rates rose as maternal age increased. For example, the 2003 rate for mothers aged 40–54 years (42.5) was more than twice that of mothers under 20 years (17.2) (table 40). The increased likelihood of cesarean delivery in older women may be related to biologic factors, patient-practitioner concerns (87), and the increased rate of multiple births.

For American Indian women the overall cesarean rate in 2003 was 24.1 percent; the rate for API mothers was 26.6 percent. Among the Hispanic subgroups, the rate of cesarean delivery ranged between 25.8 for Mexican to 39.8 for Cuban mothers (tables 24 and 25).

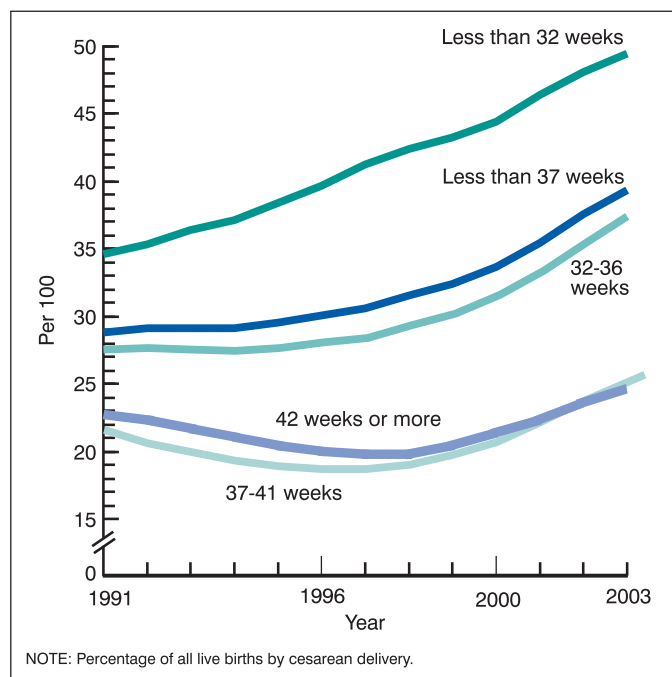
Between 1996 and 2003 total cesarean rates increased for all gestational ages, with the greatest increase (about 33 percent) for moderately preterm (32–36 weeks) and term (37–41 weeks) infants. Rates for very preterm infants (less than 32 weeks) and postterm infants (greater than 41 weeks) increased by 25 and 23 percent, respectively. In 2003 one-half of all very preterm (49.5 percent) and over one-third (37.3 percent) of moderately preterm infants were cesarean deliveries (figure 9). See also the section on “Period of gestation.”

Cesarean rates increased for all 50 States and the District of Columbia for 2002–03. As in previous years, there was considerable variation in cesarean rates by State, from under 22 percent in Alaska, Idaho, New Mexico, Utah, and Wisconsin to over 30 percent for Florida, Kentucky, Louisiana, Mississippi, New Jersey, Texas, and West Virginia (table 41). Almost one-half (46.1 percent) of births in Puerto Rico were cesarean deliveries.

Between 2002 and 2003 VBAC rates decreased in 47 States and the District of Columbia and were unchanged in Hawaii. VBAC rates rose for Pennsylvania and Washington. This unexplained increase may be due to wording and formatting changes to the method of delivery item on the 2003 revision of the U.S. Standard Certificate of Live Birth; see “Technical Notes.” For 2003 VBAC rates ranged from 5.1 in Louisiana to 24.0 per 100 in Vermont; in other words, repeat cesarean rates ranged from 94.9 in Louisiana to 76.0 in Vermont.

Mothers reported to have medical risk factors and complications of labor and/or delivery during pregnancy frequently have higher rates of cesarean delivery (table 42). For example, more than 55 percent of mothers with eclampsia and almost all mothers with cephalopelvic disproportion (96.0 percent) and breech/malpresentation (87.0 percent) had a cesarean delivery.

Since 1996, as the cesarean rate has increased, the percentage of births delivered by either forceps or vacuum extraction has decreased (data not shown). The combined rate of forceps and vacuum



**Figure 9. Total cesarean rate by gestational age at delivery: United States, 1991–2003**

extraction for 2003 (5.6 percent) is 41 percent lower than the 1994 high of 9.5 percent (88).

## Infant Health Characteristics

### Period of gestation

The preterm birth rate rose 2 percent from 12.1 percent of all births in 2002 to 12.3 percent in 2003. The proportion of infants born preterm (less than 37 completed weeks of gestation) has risen 16 percent since 1990 (from 10.6 percent) and more than 30 percent since 1981 (9.4 percent). Most of the current year increase was among infants born at 32–36 weeks of gestation (from 10.12 to 10.37 percent) or those considered moderately preterm; the percentage of infants born at less than 32 weeks of gestation, or very preterm, was essentially unchanged at 1.97 percent (1.96 percent in 2002). The rate of very preterm births has risen moderately in recent years, however, from 1.81 percent since 1981. See tables 24, 25, 43, and 44. Preterm birth is a leading cause of infant death and is associated with nearly one-half of all congenital neurological defects (e.g., cerebral palsy) (89,90). Unfortunately, uncertainty continues on the causes and best management of preterm labor (90–92).

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. The LMP-based gestational age 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. Although these data are edited for gestational ages that are clearly inconsistent with the infant's plurality and birthweight (see "Technical Notes"), these edits are conservative, and substantial incongruities in these data persist. Additionally, changes in reporting of this measure over time may affect trends in preterm birth rates, particularly by race. (93–95).

Preterm rates were up between 2002 and 2003 for the three largest race and ethnic groups: non-Hispanic white (11.0 to 11.3 percent), non-Hispanic black (17.7 to 17.8 percent), and Hispanic (11.6 to 11.9 percent) (table 44). Among births to non-Hispanic white mothers, rates increased for both very preterm and moderately preterm births. However, increases for non-Hispanic blacks and Hispanics were predominately among moderately preterm births. Since 1990 preterm birth rates have risen by one-third for non-Hispanic white births (from 8.5 percent) and a more modest 8 percent for Hispanic births (11.0 percent). In contrast, preterm rates among non-Hispanic black infants over this period have declined slightly (from 18.9 percent). Notwithstanding the more positive preterm trends for non-Hispanic blacks, their preterm risk continues to be substantially higher than those of other groups. The very preterm rate, about twice as high among non-Hispanic black compared with non-Hispanic white and Hispanic births (3.99 compared with 1.60 and 1.73 percent, respectively), is of particular concern. For preterm birth rates for American Indians, Asian and Pacific Islanders, and the Hispanic subgroups, see tables 24 and 25.

The rise in the incidence of plural births, which are much more likely than singletons to be born preterm, had an important influence on the overall preterm birth rate over the past two decades. The preterm rate for singletons rose from 10.4 to 10.6 between 2002 and 2003 and has risen 9 percent since 1990 (from 9.7). Fortunately, the increase in singleton preterm births is limited to those born moderately preterm;

the singleton very preterm birth rate declined slightly over this period (from 1.69 to 1.58) (14) (data for 2003 not shown).

A marked change in the proportion of births born at and postterm has also been observed in recent years. Births are increasingly more likely to be delivered earlier in term, or at 37–39 weeks of gestation, and less likely to be delivered at 40 weeks and later. The percentage of births delivered at 40 plus weeks declined from 48 to 36 percent between 1990 and 2003, whereas the proportion delivered at 37–39 weeks increased from 41 to 52 percent. See figure 10. The shift toward earlier delivery at all gestational ages suggests changes in the use of delivery management techniques such as induction of labor and cesarean delivery (96–98). (See section on "Method of delivery" and figure 9.)

The wide variation in preterm birth rates by State can be at least partly linked to differences in State demographics (e.g., maternal age distributions and multiple birth rates). For 2003 preterm birth rates below 10 percent were reported for Connecticut, New Hampshire, and Vermont, compared with levels of over 15 percent for Alabama, Louisiana, and Mississippi. Preterm rates increased for the vast majority of States between 1990 and 2003. See table G.

### Birthweight

The low birthweight rate (LBW) rose to 7.9 percent for 2003, from 7.8 percent in 2002, the highest level reported since 1970. Following declines during the 1970s through the early 1980s, the percentage of newborns delivered LBW (birthweight of less than 2,500 grams or less than 5 lb 8 oz) has generally risen; the 2003 rate is 18 percent higher than the 1984 low (6.7 percent). The percentage of infants born very low birthweight (VLBW) (less than 1,500 grams or less than 3 lb 4 oz) was 1.45 percent for 2003, not significantly different from the previous year (1.46 percent). Thus, all of the increase in LBW for the current year was among moderately low birthweight (MLBW) infants, that is, infants born at between 1,500 and 2,499 grams. The percentage MLBW increased from 6.36 to 6.48 between 2002 and 2003 and has risen from 5.69 since 1990. Although essentially unchanged for the current year, the VLBW level has also climbed significantly in recent years. (See tables 43–47 and figure 11.)

Although the link may not be directly causal (99), weight at birth can be an important predictor of infant mortality. For VLBW infants, the risk of dying in the first year of life is nearly 100 times that of infants

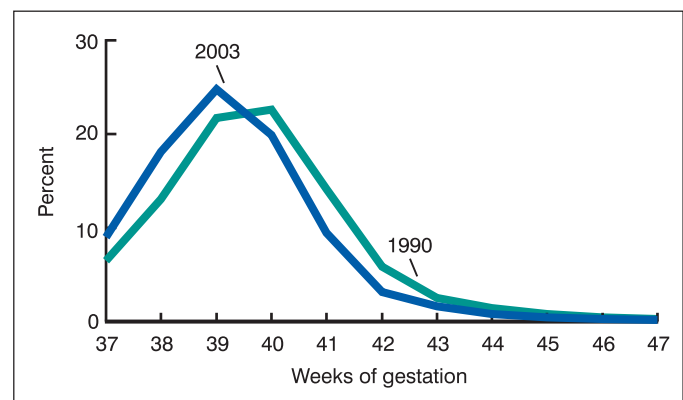


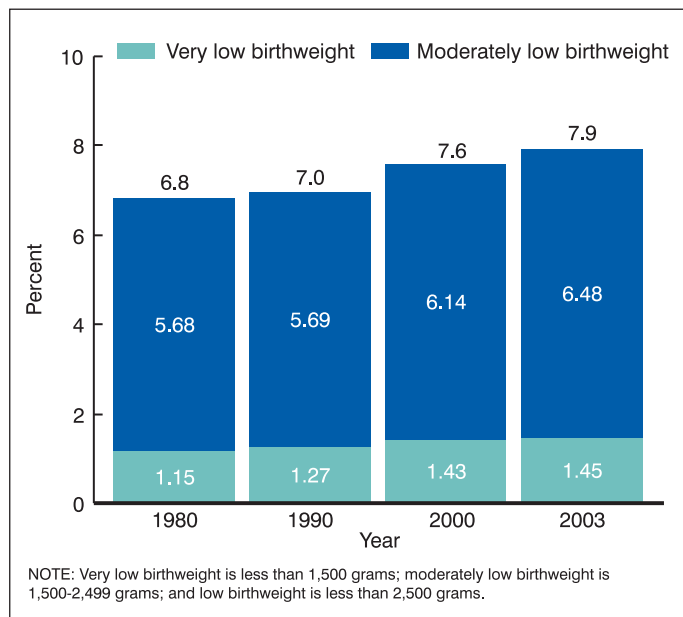
Figure 10. Percent distribution of births 37–47 weeks of gestation: United States, 1990 and 2003

**Table G. Preterm birth rates by State: United States and each State, 1990 and 2002**

State	2003	1990	Percent change, 1990–2003	State	2003	1990	Percent change, 1990–2003
United States . . . . .	12.3	10.6	16	Nebraska. . . . .	12.4	8.5	45
Alabama . . . . .	15.7	13.1	20	Nevada. . . . .	13.6	11.1	22
Alaska . . . . .	11.1	9.0	23	New Hampshire. . . . .	9.2	6.8	36
Arizona . . . . .	13.1	10.2	28	New Jersey . . . . .	12.1	10.7	13
Arkansas. . . . .	13.0	12.5	4	New Mexico . . . . .	12.7	11.0	15
California. . . . .	10.5	9.8	7	New York . . . . .	11.4	10.7	7
Colorado . . . . .	12.1	9.6	26	North Carolina. . . . .	13.6	12.5	9
Connecticut . . . . .	9.7	8.9	9	North Dakota . . . . .	12.0	8.3	45
Delaware. . . . .	13.7	11.1	24	Ohio . . . . .	12.5	10.6	18
District of Columbia . . . . .	14.8	20.7	–28	Oklahoma . . . . .	12.7	10.1	26
Florida . . . . .	13.0	11.6	13	Oregon. . . . .	10.1	8.0	25
Georgia . . . . .	13.1	12.8	2	Pennsylvania . . . . .	11.6	10.3	12
Hawaii . . . . .	12.6	10.0	26	Rhode Island . . . . .	11.6	9.6	21
Idaho . . . . .	10.7	8.7	24	South Carolina . . . . .	14.5	12.3	18
Illinois . . . . .	12.8	11.4	13	South Dakota . . . . .	11.2	8.9	25
Indiana . . . . .	12.9	9.9	30	Tennessee . . . . .	14.1	12.6	12
Iowa . . . . .	11.4	8.7	31	Texas. . . . .	13.9	11.2	23
Kansas . . . . .	11.6	9.5	22	Utah . . . . .	10.4	8.7	20
Kentucky . . . . .	14.0	10.5	34	Vermont . . . . .	9.5	7.1	34
Louisiana. . . . .	15.6	13.9	12	Virginia. . . . .	12.1	11.0	9
Maine. . . . .	10.1	7.6	32	Washington . . . . .	10.3	8.4	22
Maryland . . . . .	13.1	11.2	16	West Virginia . . . . .	13.3	9.9	34
Massachusetts . . . . .	10.7	7.7	39	Wisconsin . . . . .	11.3	9.2	23
Michigan . . . . .	11.9	10.7	11	Wyoming. . . . .	11.8	10.3	15
Minnesota . . . . .	10.2	8.2	25				
Mississippi . . . . .	17.9	15.1	19				
Missouri . . . . .	13.1	10.7	22				
Montana . . . . .	11.1	8.5	31				

NOTE: Preterm is defined as less than 37 completed weeks of gestation.

who weigh at least 2,500 grams at birth; the risk for MLBW infants (1,500–2,499 grams) is more than five times higher than that of heavier newborns (89). Smaller infants who do survive, especially those born



**Figure 11. Percentage of births very low, moderately low, and low birthweight: United States, 1980, 1990, and 2000 and 2003**

at less than 1,500 grams, are more likely to suffer long-term disabilities (100).

Recent trends in LBW are influenced by the strong growth in the multiple birth rate (101) (see section on “Multiple births”); twins and higher order multiples are much more likely to be born LBW than singletons; 58.2 percent of all plural births were born LBW in 2003. However, even when multiples are excluded, LBW rates are on the rise. For 2003 the **singleton LBW rate** was 6.2 percent, a small increase over 2002 (6.1 percent), and 5 percent higher than the 1990 level (5.9 percent). Studies suggest that singletons conceived with assisted reproductive technology (ART), which account for an increasing number of births (102,103), are at greater risk of LBW than those conceived spontaneously (104,105).

LBW levels increased for 2002–03 for the largest racial and ethnic groups: non-Hispanic white (from 6.9 to 7.0 percent), non-Hispanic black (from 13.4 to 13.6 percent), and Hispanic (from 6.5 to 6.7 percent). Fortunately, however, VLBW rates were essentially unchanged. **See tables 24 and 25** for VLBW and LBW levels for American Indian, Asian and Pacific Islander, Mexican, Puerto Rican, Cuban, and Central and South American infants.

Singleton LBW also rose between 2002 and 2003 among each of the largest racial groups. **See table H.** Since 1990 LBW rates for singletons have risen 6 and 12 percent for Hispanic and non-Hispanic white infants, respectively, but have declined 3 percent among non-Hispanic black newborns.

The percentage of infants born at 4,000 grams or more (at least 8 lb 14 oz) or macrosomic births, declined from 9.2 to 8.9 percent between 2002 and 2003. The proportion of higher birthweight infants

**Table H. Rate of very low birthweight and low birthweight, and mean birthweight among singletons by race and Hispanic origin of mother, United States: 1990, 1995, 2000, and 2003**

	2003	2002	2000	1995	1990 <sup>1</sup>
Total, all races, origins <sup>2</sup>					
Percent very low birthweight . . . . .	1.11	1.11	1.11	1.08	1.05
Percent low birthweight . . . . .	6.20	6.12	6.00	6.05	5.90
Mean birthweight in grams (standard deviation) <sup>3</sup> . . .	3,325 (571)	3,332 (573)	3,348 (577)	3,353 (581)	3,365 (583)
Non-Hispanic white					
Percent very low birthweight . . . . .	0.82	0.81	0.80	0.78	0.73
Percent low birthweight . . . . .	5.11	5.02	4.88	4.87	4.56
Mean birthweight in grams (standard deviation) <sup>3</sup> . . .	3,384 (555)	3,392 (556)	3,410 (560)	3,416 (563)	3,433 (562)
Non-Hispanic black					
Percent very low birthweight . . . . .	2.61	2.63	2.62	2.55	2.54
Percent low birthweight . . . . .	11.58	11.44	11.28	11.66	11.92
Mean birthweight in grams (standard deviation) <sup>3</sup> . . .	3,122 (631)	3,128 (632)	3,141 (637)	3,132 (635)	3,128 (635)
Hispanic <sup>4</sup>					
Percent very low birthweight . . . . .	0.94	0.96	0.94	0.93	0.87
Percent low birthweight . . . . .	5.55	5.44	5.36	5.36	5.23
Mean birthweight in grams (standard deviation) <sup>3</sup> . . .	3,324 (548)	3,332 (550)	3,344 (552)	3,343 (553)	3,351 (552)

<sup>1</sup>Data for 1990 by race and Hispanic origin exclude data for New Hampshire and Oklahoma, which did not require reporting of Hispanic origin of mother.

<sup>2</sup>Includes births to races not shown separately.

<sup>3</sup>Computed in grams.

<sup>4</sup>Includes persons of Hispanic origin of any race.

NOTES: Very low birthweight is less than 1,500 grams. Low birthweight is less than 2,500 grams. Race categories are consistent with the 1977 Office of Management and Budget guidelines; see "Technical Notes."

has dropped from over 11 percent since the 1980s. (See tables 24, 25, and 45 for 2003 data.)

In 2003 the mean or average birthweight for infants delivered in single deliveries was 3,325 grams (7 lb 5 oz). Since 1990 the average birthweight has declined slightly, by about 1 percent, for U.S. births overall and for non-Hispanic white and Hispanic births. The mean birthweight for non-Hispanic black infants has been essentially stable over this period (table H).

LBW risk historically has differed markedly by maternal age, with the youngest and oldest mothers the most likely to deliver at-risk infants. In 2003 mothers under 15 years and mothers over 45 years of age were two to three times as likely to bear a VLBW infant compared with their 25–34-year-old counterparts. Any analysis of LBW or VLBW risk by maternal age, however, should take into account the disproportionate impact of multiple births on levels for older women. Plural births are much more likely to be LBW and VLBW and also occur much more frequently among older women. (See section on "Multiple births".) In illustration, among all infants born to women 45 years and over in 2003, the VLBW rate was 4.0 percent, twice the VLBW level for singletons born to this age group (2.0 percent). (Data not shown.)

**LBW levels also vary widely by State.** For 2003 the lowest LBW rates were reported for Alaska and Washington (6.0 percent); the highest rate was observed in Mississippi (11.4 percent). Maternal demographic factors such as age and race or ethnicity account for some of these differences by State. Rates for non-Hispanic white births ranged from a low of 5.2 percent (Alaska) to a high of 8.9 percent (Wyoming) (tables 46 and 47). For States reporting 1,000 or more births to non-Hispanic black women, the percentage of births born LBW ranged from 10.3 to 15.7 percent in Minnesota and Colorado, respectively. Ranges by State for Hispanic births are very similar to those for non-Hispanic white births. Rates for States with at least 1,000 births

to Hispanic mothers ranged from 5.1 and 5.3 percent for Minnesota and Oregon, respectively, to 8.7 and 8.9 percent for New Mexico and Rhode Island, respectively.

### Apgar score

The Apgar score has been in use for over 50 years. In 1953 Virginia Apgar, M.D., proposed a new method of evaluating the general physical condition of the newborn at 1 minute, 5 minutes, and if desired, at additional 5-minute intervals after delivery (106). The Apgar score measures 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 to 2, with 2 being optimum. The total score is the sum of the scores of the five components. A score of 0 to 3 indicates an infant in need of resuscitation; a score 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 1-minute Apgar, no longer available from national vital statistics data, signals the need for immediate resuscitation. The 5-minute Apgar score can be a useful clinical indicator of the effectiveness of resuscitation efforts but has limited use in determining the severity of the problem and correlates poorly with future neurologic outcome. The 2003 revision of the Certificate of Live Birth includes items for both the 5- and 10-minute Apgar scores; for further information see the Revision Web site (5). All States except California and Texas reported information on the 5-minute Apgar score in 2003.

The proportion of newborns with 5-minute Apgar scores of 9 or 10, indicating excellent infant health status, has increased very slowly from 88.6 percent to 91.1 percent between 1978 and 2003. The proportion of births with low Apgar scores (below 7) declined over

30 percent from 1978 to 1993 (2.1 percent to 1.4) but has been unchanged since (tables 24 and 25). This is in contrast to trends in other indicators of infant health such as LBW and preterm births, which have generally risen in recent years (see the sections on gestational age and birthweight).

For non-Hispanic black infants, the percentage of unfavorable Apgar scores has declined and excellent Apgar scores have increased in the past decade, whereas low and high Apgar ratings have remained steady for non-Hispanic white infants. Despite the improvement in scores for non-Hispanic black infants, disparities persist between the two groups. In 2003, 2.3 percent of non-Hispanic black infants had Apgar scores under 7 compared with 1.3 percent of non-Hispanic white infants.

Of all LBW infants, 9 percent had low Apgar scores for 2003, compared with 1 percent of normal weight (2,500–3,999 grams) infants; among VLBW infants, 32 percent had low Apgar scores in 2003 (data not shown).

### Abnormal conditions of the newborn

The most frequently reported of the eight abnormal conditions on the 1989 revision of the birth certificate are as follows: assisted ventilation less than 30 minutes, assisted ventilation of 30 minutes or longer, and hyaline membrane disease/respiratory distress syndrome (RDS) (table 48). There may be underreporting of abnormal conditions on the birth certificate (107), especially those difficult to identify at birth: for example, fetal alcohol syndrome (FAS) (108).

In 2003 the rate for assisted ventilation less than 30 minutes was 21.4 per 1,000, a rate almost double the 1990 rate of 12.9. For assisted ventilation of 30 minutes or longer the rate was 9.3 per 1,000. This rate has gradually increased since 1990 (7.2). Assisted ventilation is central to the therapy for respiratory disease such as RDS (109).

For comparability, rates and trend analysis for the abnormal conditions discussed exclude data for Pennsylvania and Washington, which implemented the 2003 Standard Certificate of Live Birth. See "Technical Notes."

The overall rate of hyaline membrane disease/RDS in 2003 was 6.0 per 1,000. This rate has decreased since 1994, when the highest level (6.8) was reported. A frequent cause of disease in preterm infants, risk factors for hyaline membrane disease/RDS include early gestational age, inadequately controlled maternal diabetes, multiple births, and fetal asphyxia (109,110). It has been suggested that medically induced delivery before labor for early-term infants (gestational ages 37 and 38 weeks) may be a risk factor for RDS, possibly because of lung immaturity (111).

The rate for meconium aspiration syndrome (1.2 in 2003) has slowly decreased from the 1990 rate (3.1); the rate for anemia for 2003 (0.9) was one-half the 1990 rate (1.8).

### Congenital anomalies

The leading cause of infant death in the United States, congenital anomalies (89) also cause metabolic disorders and disability (112) (table 49). Since 1992 there has been a national effort to prevent neural tube defects (NTDs), such as spina bifida and anencephalus, by encouraging increased intake of folic acid among women of childbearing age (113). Since 1998 fortification of all cereal and grain products with folic acid has been mandatory (113);

increased folate use among women of childbearing age has been reported (114). It has been suggested that greater maternal weight may be a risk factor for NTDs (115) and that multivitamin supplementation may also protect against defects other than NTDs (116).

The rate for the NTD anencephalus increased to 11.4 per 100,000 births in 2003, from 9.9 for 2002. The spina bifida/meningocele rate was 18.7 in 2003 compared with 20.0 for 2002. The rate for anencephalus declined for 1997–2002 (113); the rate for spina bifida declined between 1997 and 2003.

Among the most commonly reported specific anomalies, cleft lip/palate was reported at a rate of 75.9 per 100,000 births. The rate of clubfoot was 57.6 per 100,000; the rate of Down's syndrome was 46.5. Rates for several of the congenital anomalies discussed exclude data for Pennsylvania and Washington, which implemented the 2003 Standard Certificate of Live Birth; see "Technical Notes."

Although congenital anomalies are underreported on the birth certificate, birth certificate data may be a valuable resource for investigative or confirmatory studies (117). Birth certificate data have been used to support an association between maternal smoking and birth defects such as cleft lip/palate and clubfoot (117,118). Early ascertainment and reporting of congenital anomalies are limited because many anomalies are not recognizable at birth; the most serious or apparent anomalies are more likely to be observed and documented prior to birth registration (119). The congenital anomalies reported on birth certificates are rare events. Because a small change in the number of anomalies reported can result in a relatively large change in rates, caution should also be used in comparing yearly rates for a specific anomaly.

Rates for certain types of anomalies differ widely with maternal age (table 49). For example, in 2003 as in past years, rates for omphalocele/gastroschisis are highest for infants of the youngest mothers, whereas rates for Down's syndrome and heart malformations are highest for infants of mothers aged 35 years and over.

### Multiple births

The twin birth rate rose to 31.5 twin births per 1,000 total live births in 2003, another record high, and a 1 percent increase over the 2002 level (31.1). The twinning rate has climbed by two-thirds (from 18.9 per 1,000) and the number of births in twin deliveries by more than three-fourths since 1980, from 68,339 to 128,665 (120). (See tables 50 and J.)

The triplet/+ birth rate held steady for 2003 at 187.4, not significantly changed from the previous year (184.0). Between 1980 and 1998 the triplet/+ birth rate (the number of triplets, quadruplets, and quintuplets and other higher order multiples per 100,000 live births) had surged by more than 500 percent, rising from 37.0 to 193.5 (120). Since 1999, however, the triplet/+ rate has remained stable and significantly lower than the 1998 peak. Despite the stability in the rate, the number of triplet/+ born in 2003 was the highest ever reported, 7,663.

The rising incidence of multiple births over the last two decades has been associated with two related trends: the older age at childbearing (older mothers are more likely than younger mothers to conceive multiples spontaneously) and increasing use of fertility therapies (i.e., ART such as *in vitro* fertilization (IVF) and non-ART procedures such as intrauterine insemination and ovulation-inducing drugs) (26,102,121). A study of multiples born in the year 2000 estimated that natural conception accounted for 67 percent of the twins and only 18 percent of the triplet/+ born that year (122).

**Table J. Numbers of twin, triplet, quadruplet, and quintuplet and other higher order multiple births: United States, selected years 1980–2003**

Year	Twins	Triplets <sup>1</sup>	Quadruplets <sup>1</sup>	Quintuplets and higher order multiples <sup>2</sup>	Triplet/+	Twin birth rate <sup>3</sup>	Triplet/+ birth rate <sup>4</sup>
2003	128,665	7,110	468	85	7,663	31.5	187.4
2002	125,134	6,898	434	69	7,401	31.1	184.0
2001	121,246	6,885	501	85	7,471	30.1	185.6
2000	118,916	6,742	506	77	7,325	29.3	180.5
1995	96,736	4,551	365	57	4,973	24.8	127.5
1990	93,865	2,830	185	13	3,028	22.6	72.8
1985	77,102	<sup>(5)</sup> 1,925	---	---	1,925	20.5	51.2
1980	68,339	<sup>(5)</sup> 1,337	---	---	1,337	18.9	37.0

--- Data not available.

<sup>1</sup>Triplets, quadruplets, and quintuplets and other higher order multiple births were not differentiated in the national data set until 1989.

<sup>2</sup>Quintuplets, sextuplets, and higher order multiple births are not differentiated in the national data set.

<sup>3</sup>Births in twin deliveries per 1,000 live births.

<sup>4</sup>Births in triplet and higher order multiple deliveries per 100,000 live births.

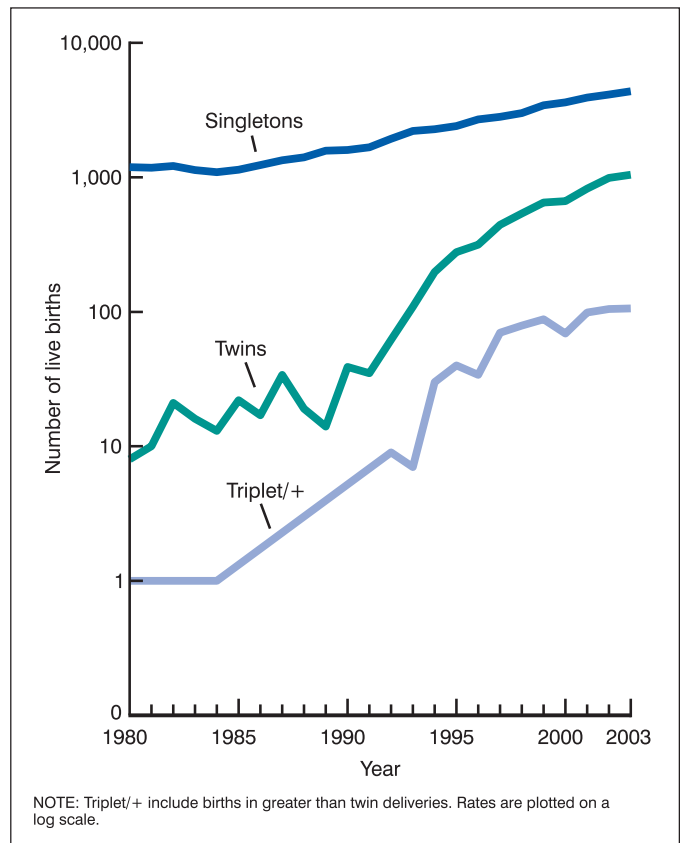
<sup>5</sup>Includes quadruplets and higher order multiple births.

The recent stabilization of the triplet/+ birth rate may be linked to recommendations in the late 1990s from The American College of Obstetricians and Gynecologists and The American Society of Reproductive Medicine intended to prevent higher order multiple pregnancies by limiting the number of embryos transferred (123,124). The proportion of ART procedures involving the transfer of three or more embryos, a predictor of triplet/+ birth outcome, appears to have declined between 1997 and 2001 (125). Refinements of ART therapies plus other factors also may have played a role (126,127).

Twinning rates increased for the current year among non-Hispanic white (35.2) and Hispanic (21.3) women but were unchanged for non-Hispanic black mothers (34.7). Triplet/+ birth rates were essentially stable for each group. The highest rates and the fastest growth in multiples are reported for non-Hispanic white mothers; women in this group are also more likely to receive infertility services (27). Between 1990 and 2003 the twin birth rate rose by more than 50 percent among non-Hispanic white women, and the triplet/+ rate rose by 184 percent. In comparison, twinning rates rose 30 percent among non-Hispanic black mothers and 18 percent among Hispanic mothers; triplet/+ birth rates by 137 and 117 percent, respectively.

By maternal age, the rise in twin and triplet/+ birth rates has been most pronounced among older mothers, and especially those aged 40 years and over. The number of singletons born to women aged 45–49 years has risen nearly threefold between 1990 and 2003 (from 1,599 to 4,371 births), but the number of multiples has climbed even more dramatically. Between 1990 and 2003 the number of twins born to women in this age group surged from only 39 to 1,045 and the number of triplet/+ births from 0 to 106 (120). See figure 12.

The greatly increased risk of adverse outcome associated with multiple gestation pregnancies compared with singleton gestation pregnancies is well documented, as is the way increasing rates of these high-risk pregnancies are affecting national measures of public health (128–130). In 2003 multiples accounted for 3 percent of all live births but more than one of every four VLBW infants (data not shown). In 2002, the latest year for which data are available, nearly one of every five neonatal deaths (death within the first month of birth) were born in a multiple delivery (130,131).

**Figure 12. Numbers of twin, triplet, and singleton births to women 45–49 years of age: United States, 1990–2003**

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# Guide to Tables in Births: Final Data for 2003

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 <sup>1</sup> . . . . .										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 . . . . .						<sup>4</sup> 6	<sup>4</sup> 7	<sup>4</sup> 8	<sup>4</sup> 9			<sup>4</sup> 12		<sup>4</sup> 14			<sup>6</sup> 17	<sup>6</sup> 18	<sup>6</sup> 19		<sup>6</sup> 21	<sup>6</sup> 22	<sup>4</sup> 23		<sup>4</sup> 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 . . . . .																				<sup>3</sup> 20					
Race of mother . . . . .	<sup>2</sup> 1	<sup>2</sup> 2	<sup>2</sup> 3	<sup>2</sup> 4	<sup>3</sup> 5	<sup>4</sup> 6	<sup>4</sup> 7	<sup>4</sup> 8	<sup>4</sup> 9		<sup>2</sup> 11	<sup>4</sup> 12	<sup>5</sup> 13	<sup>4</sup> 14	<sup>3</sup> 15	<sup>3</sup> 16	<sup>6</sup> 17	<sup>6</sup> 18	<sup>6</sup> 19		<sup>3</sup> 21	<sup>6</sup> 22	<sup>4</sup> 23	<sup>5</sup> 24	<sup>4</sup> 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 <sup>1</sup> . . . . .									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 . . . . .			<sup>4</sup> 28		<sup>4</sup> 30	<sup>6</sup> 31	<sup>6</sup> 32	<sup>6</sup> 33	<sup>6</sup> 34	<sup>6</sup> 35			<sup>6</sup> 38	<sup>6</sup> 39	<sup>6</sup> 40	<sup>6</sup> 41		<sup>6</sup> 43	<sup>6</sup> 44	<sup>6</sup> 45	<sup>6</sup> 46	<sup>6</sup> 47			<sup>6</sup> 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 . . . . .	<sup>3</sup> 26	<sup>5</sup> 27	<sup>4</sup> 28	<sup>3</sup> 29	<sup>4</sup> 30	<sup>3</sup> 31	<sup>6</sup> 32	<sup>6</sup> 33	<sup>6</sup> 34	<sup>6</sup> 35	<sup>3</sup> 36	<sup>3</sup> 37	<sup>6</sup> 38	<sup>6</sup> 39	<sup>6</sup> 40	<sup>6</sup> 41		<sup>6</sup> 43	<sup>3</sup> 44	<sup>6</sup> 45	<sup>6</sup> 46	<sup>6</sup> 47	<sup>3</sup> 48	<sup>3</sup> 49	<sup>6</sup> 50
Tobacco use . . . . .				29	30	31	32																		

<sup>1</sup>Includes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas.  
<sup>2</sup>Includes white, black, American Indian, and Asian or Pacific Islander.  
<sup>3</sup>Includes white and black.  
<sup>4</sup>Includes Mexican, Puerto Rican, Cuban, Central and South American, other and unknown Hispanic, non-Hispanic white, and non-Hispanic black.  
<sup>5</sup>Includes white, black, American Indian, and Asian and Pacific Islanders.  
<sup>6</sup>Includes 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, 1960–2003**

[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 1940, 1950, 1960, 1970, 1980, 1990, and 2000 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 <sup>1</sup>	White	Black	American Indian <sup>2</sup>	Asian or Pacific Islander	All races <sup>1</sup>	White	Black	American Indian <sup>2</sup>	Asian or Pacific Islander	All races <sup>1</sup>	White	Black	American Indian <sup>2</sup>	Asian or Pacific Islander
Registered births															
Race of mother:															
2003	4,089,950	3,225,848	599,847	43,052	221,203	14.1	13.6	15.7	13.8	16.8	66.1	66.1	66.3	58.4	66.3
2002	4,021,726	3,174,760	593,691	42,368	210,907	13.9	13.5	15.7	13.8	16.5	64.8	64.8	65.8	58.0	64.1
2001	4,025,933	3,177,626	606,156	41,872	200,279	14.1	13.7	16.3	13.7	16.4	65.3	65.0	67.6	58.1	64.2
2000	4,058,814	3,194,005	622,598	41,668	200,543	14.4	13.9	17.0	14.0	17.1	65.9	65.3	70.0	58.7	65.8
1999	3,959,417	3,132,501	605,970	40,170	180,776	14.2	13.7	16.8	14.2	15.9	64.4	64.0	68.5	59.0	60.9
1998	3,941,553	3,118,727	609,902	40,272	172,652	14.3	13.8	17.1	14.8	15.9	64.3	63.6	69.4	61.3	60.1
1997	3,880,894	3,072,640	599,913	38,572	169,769	14.2	13.7	17.1	14.7	16.2	63.6	62.8	69.0	60.8	61.3
1996	3,891,494	3,093,057	594,781	37,880	165,776	14.4	13.9	17.3	14.9	16.5	64.1	63.3	69.2	61.8	62.3
1995	3,899,589	3,098,885	603,139	37,278	160,287	14.6	14.1	17.8	15.3	16.7	64.6	63.6	71.0	63.0	62.6
1994	3,952,767	3,121,004	636,391	37,740	157,632	15.0	14.3	19.1	16.0	17.1	65.9	64.2	75.9	65.8	63.9
1993	4,000,240	3,149,833	658,875	38,732	152,800	15.4	14.6	20.2	17.0	17.3	67.0	64.9	79.6	69.7	64.3
1992	4,065,014	3,201,678	673,633	39,453	150,250	15.8	15.0	21.1	17.9	17.9	68.4	66.1	82.4	73.1	66.1
1991	4,110,907	3,241,273	682,602	38,841	145,372	16.2	15.3	21.8	18.3	18.3	69.3	66.7	84.8	73.9	67.1
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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	3,612,258	2,898,732	589,616	36,797	---	15.9	14.9	22.1	---	---	68.4	64.7	88.1	---	---
1979 <sup>3</sup>	3,494,398	2,808,420	577,855	34,269	---	15.6	14.5	22.0	---	---	67.2	63.4	88.3	---	---
1978 <sup>3</sup>	3,333,279	2,681,116	551,540	33,160	---	15.0	14.0	21.3	---	---	65.5	61.7	86.7	---	---
1977 <sup>3</sup>	3,326,632	2,691,070	544,221	30,500	---	15.1	14.1	21.4	---	---	66.8	63.2	88.1	---	---
1976 <sup>3</sup>	3,167,788	2,567,614	514,479	29,009	---	14.6	13.6	20.5	---	---	65.0	61.5	85.8	---	---
1975 <sup>3</sup>	3,144,198	2,551,996	511,581	27,546	---	14.6	13.6	20.7	---	---	66.0	62.5	87.9	---	---
1974 <sup>3</sup>	3,159,958	2,575,792	507,162	26,631	---	14.8	13.9	20.8	---	---	67.8	64.2	89.7	---	---
1973 <sup>3</sup>	3,136,965	2,551,030	512,597	26,464	---	14.8	13.8	21.4	---	---	68.8	64.9	93.6	---	---
1972 <sup>3</sup>	3,258,411	2,655,558	531,329	27,368	---	15.6	14.5	22.5	---	---	73.1	68.9	99.9	---	---
1971 <sup>4</sup>	3,555,970	2,919,746	564,960	27,148	---	17.2	16.1	24.4	---	---	81.6	77.3	109.7	---	---
1970 <sup>4</sup>	3,731,386	3,091,264	572,362	25,864	---	18.4	17.4	25.3	---	---	87.9	84.1	115.4	---	---
1969 <sup>4</sup>	3,600,206	2,993,614	543,132	24,008	---	17.9	16.9	24.4	---	---	86.1	82.2	112.1	---	---
1968 <sup>4</sup>	3,501,564	2,912,224	531,152	24,156	---	17.6	16.6	24.2	---	---	85.2	81.3	112.7	---	---
1967 <sup>5</sup>	3,520,959	2,922,502	543,976	22,665	---	17.8	16.8	25.1	---	---	87.2	82.8	118.5	---	---
1966 <sup>4</sup>	3,606,274	2,993,230	558,244	23,014	---	18.4	17.4	26.2	---	---	90.8	86.2	124.7	---	---
1965 <sup>4</sup>	3,760,358	3,123,860	581,126	24,066	---	19.4	18.3	27.7	---	---	96.3	91.3	133.2	---	---
1964 <sup>4</sup>	4,027,490	3,369,160	607,556	24,382	---	21.1	20.0	29.5	---	---	104.7	99.8	142.6	---	---
1963 <sup>4,6</sup>	4,098,020	3,326,344	580,658	22,358	---	21.7	20.7	---	---	---	108.3	103.6	---	---	---
1962 <sup>4,6</sup>	4,167,362	3,394,068	584,610	21,968	---	22.4	21.4	---	---	---	112.0	107.5	---	---	---
1961 <sup>4</sup>	4,268,326	3,600,864	611,072	21,464	---	23.3	22.2	---	---	---	117.1	112.3	---	---	---
1960 <sup>4</sup>	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. <sup>1</sup>For 1960–91 includes births to races not shown separately. For 1992 and later years unknown race of mother is imputed; see "Technical Notes."

<sup>2</sup>Includes births to Aleuts and Eskimos. <sup>3</sup>Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see "Technical Notes."

<sup>4</sup>Based on a 50-percent sample of births. <sup>5</sup>Based on a 20- to 50-percent sample of births. <sup>6</sup>Figures by race exclude New Jersey.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

[Live-birth order refers to number of children born alive to mother]

Live-birth order and race of mother	All ages	Under 15 years	Age of mother												
			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 . . . . .	4,089,950	6,661	414,580	18,238	41,344	74,802	117,750	162,446	1,032,305	1,086,366	975,546	467,642	101,005	5,522	323
1st child . . . . .	1,633,987	6,511	330,160	17,520	38,152	64,671	93,595	116,222	481,624	394,295	288,323	109,377	22,212	1,391	94
2d child . . . . .	1,320,477	124	70,554	627	2,895	9,100	20,621	37,311	351,903	366,504	348,224	152,914	28,781	1,400	73
3d child . . . . .	684,296	4	11,224	28	165	769	2,878	7,384	142,104	202,610	198,580	107,847	20,956	924	47
4th child . . . . .	267,683	1	1,322	5	12	56	269	980	40,751	78,656	82,663	51,291	12,379	582	38
5th child . . . . .	97,308	1	162	1	1	5	37	118	10,037	27,041	31,136	21,997	6,527	383	24
6th child . . . . .	38,816	–	22	1	–	1	5	15	2,223	9,194	13,040	10,411	3,659	249	18
7th child . . . . .	17,347	–	4	–	1	–	3	–	501	3,327	5,784	5,455	2,113	155	8
8th child and over . . . . .	18,081	–	7	–	–	–	2	5	181	1,690	5,083	6,745	3,945	412	18
Not stated . . . . .	11,955	20	1,125	56	118	200	340	411	2,981	3,049	2,713	1,605	433	26	3
White . . . . .	3,225,848	3,677	298,347	11,484	28,151	52,941	85,734	120,037	790,910	871,496	795,902	379,773	81,031	4,445	267
1st child . . . . .	1,288,684	3,608	240,706	11,069	26,169	46,311	69,286	87,871	379,879	321,092	234,859	89,190	18,122	1,150	78
2d child . . . . .	1,057,829	54	48,971	355	1,822	5,976	14,274	26,544	273,145	300,418	286,948	124,099	22,996	1,132	66
3d child . . . . .	544,265	2	7,069	18	84	481	1,769	4,717	102,624	162,498	165,415	89,124	16,759	733	41
4th child . . . . .	205,040	1	744	3	6	33	151	551	26,150	58,831	66,902	41,931	9,984	467	30
5th child . . . . .	70,741	1	90	–	1	3	21	65	5,614	18,365	23,689	17,473	5,186	300	23
6th child . . . . .	26,731	–	10	1	–	1	3	5	1,075	5,496	9,210	7,889	2,843	195	13
7th child . . . . .	11,678	–	2	–	1	–	1	–	241	1,749	3,827	4,060	1,676	117	6
8th child and over . . . . .	12,192	–	4	–	–	–	1	3	104	801	3,020	4,775	3,150	330	8
Not stated . . . . .	8,688	11	751	38	68	136	228	281	2,078	2,246	2,032	1,232	315	21	2
Black . . . . .	599,847	2,726	100,951	6,056	11,654	19,145	27,817	36,279	196,268	139,947	97,529	49,889	11,895	614	28
1st child . . . . .	226,476	2,651	77,333	5,780	10,569	16,008	21,018	23,958	77,823	35,317	21,568	9,501	2,154	123	6
2d child . . . . .	174,614	65	18,968	250	960	2,799	5,588	9,371	65,234	43,567	29,781	13,881	2,976	138	4
3d child . . . . .	105,788	1	3,738	9	76	265	995	2,393	34,218	31,511	21,969	11,663	2,571	113	4
4th child . . . . .	49,947	–	516	2	6	20	104	384	12,917	16,395	11,739	6,677	1,625	74	4
5th child . . . . .	21,611	–	65	–	–	2	15	48	3,995	7,348	5,781	3,376	992	53	1
6th child . . . . .	9,824	–	10	–	–	–	1	9	1,045	3,136	3,041	1,936	617	37	2
7th child . . . . .	4,596	–	2	–	–	–	–	–	237	1,351	1,581	1,072	327	24	2
8th child and over . . . . .	4,660	–	3	–	–	–	1	2	66	780	1,667	1,531	560	48	5
Not stated . . . . .	2,331	9	316	15	43	51	93	114	733	542	402	252	73	4	–
American Indian <sup>1</sup> . . . . .	43,052	154	7,690	411	815	1,449	2,115	2,900	14,645	10,524	6,423	2,906	666	41	3
1st child . . . . .	15,237	150	5,955	392	744	1,253	1,648	1,918	5,488	2,169	1,048	360	62	5	–
2d child . . . . .	11,788	3	1,435	15	65	173	396	786	5,185	2,993	1,516	537	113	6	–
3d child . . . . .	7,738	1	234	1	2	13	55	163	2,709	2,624	1,441	603	121	5	–
4th child . . . . .	4,152	–	35	–	–	2	7	26	932	1,534	1,048	489	106	5	3
5th child . . . . .	1,992	–	2	–	–	–	1	1	229	691	621	361	82	6	–
6th child . . . . .	1,022	–	1	–	–	–	–	1	47	300	381	233	57	3	–
7th child . . . . .	486	–	–	–	–	–	–	–	8	117	176	140	42	3	–
8th child and over . . . . .	477	–	–	–	–	–	–	–	5	45	169	173	77	8	–
Not stated . . . . .	160	–	28	3	4	8	8	5	42	51	23	10	6	–	–
Asian or Pacific Islander . . . . .	221,203	104	7,592	287	724	1,267	2,084	3,230	30,482	64,399	75,692	35,074	7,413	422	25
1st child . . . . .	103,590	102	6,166	279	670	1,099	1,643	2,475	18,434	35,717	30,848	10,326	1,874	113	10
2d child . . . . .	76,246	2	1,180	7	48	152	363	610	8,339	19,526	29,979	14,397	2,696	124	3
3d child . . . . .	26,505	–	183	–	3	10	59	111	2,553	5,977	9,755	6,457	1,505	73	2
4th child . . . . .	8,544	–	27	–	–	1	7	19	752	1,896	2,974	2,194	664	36	1
5th child . . . . .	2,964	–	5	1	–	–	–	4	199	637	1,045	787	267	24	–
6th child . . . . .	1,239	–	1	–	–	–	–	1	56	262	408	353	142	14	3
7th child . . . . .	587	–	–	–	–	–	–	–	15	110	200	183	68	11	–
8th child and over . . . . .	752	–	–	–	–	–	–	–	6	64	227	266	158	26	5
Not stated . . . . .	776	–	30	–	3	5	11	11	128	210	256	111	39	1	1

– Quantity zero.

<sup>1</sup>Includes births of Aleuts and Eskimos.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

[Rates are live births per 1,000 women in specified age and racial group. Fertility rate computed by relating total births, regardless of age of mother, to women aged 15–44 years. Population estimated as of July 1. 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	Age of mother										
	15–44 years	10–14 years	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years	45–49 years <sup>1</sup>
			Total	15–17 years	18–19 years						
All races . . . . .	66.1	0.6	41.6	22.4	70.7	102.6	115.6	95.1	43.8	8.7	0.5
1st child . . . . .	26.5	0.6	33.2	20.1	53.1	48.0	42.1	28.2	10.3	1.9	0.1
2d child . . . . .	21.4	0.0	7.1	2.1	14.7	35.1	39.1	34.1	14.4	2.5	0.1
3d child . . . . .	11.1	*	1.1	0.2	2.6	14.2	21.6	19.4	10.1	1.8	0.1
4th child . . . . .	4.3	*	0.1	0.0	0.3	4.1	8.4	8.1	4.8	1.1	0.1
5th child . . . . .	1.6	*	0.0	*	0.0	1.0	2.9	3.0	2.1	0.6	0.0
6th and 7th child . . . . .	0.9	*	0.0	*	0.0	0.3	1.3	1.8	1.5	0.5	0.0
8th child and over . . . . .	0.3	*	*	*	*	0.0	0.2	0.5	0.6	0.3	0.0
White . . . . .	66.1	0.5	38.3	19.8	66.2	100.6	119.5	99.3	44.8	8.7	0.5
1st child . . . . .	26.5	0.5	31.0	17.9	50.7	48.4	44.1	29.4	10.6	1.9	0.1
2d child . . . . .	21.7	0.0	6.3	1.7	13.2	34.8	41.3	35.9	14.7	2.5	0.1
3d child . . . . .	11.2	*	0.9	0.1	2.1	13.1	22.3	20.7	10.5	1.8	0.1
4th child . . . . .	4.2	*	0.1	0.0	0.2	3.3	8.1	8.4	5.0	1.1	0.1
5th child . . . . .	1.5	*	0.0	*	0.0	0.7	2.5	3.0	2.1	0.6	0.0
6th and 7th child . . . . .	0.8	*	*	*	*	0.2	1.0	1.6	1.4	0.5	0.0
8th child and over . . . . .	0.3	*	*	*	*	0.0	0.1	0.4	0.6	0.3	0.0
Black . . . . .	66.3	1.6	63.8	38.2	103.7	126.1	100.4	66.5	33.2	7.7	0.5
1st child . . . . .	25.1	1.5	49.0	33.6	73.0	50.2	25.4	14.8	6.4	1.4	0.1
2d child . . . . .	19.4	0.0	12.0	4.2	24.3	42.1	31.4	20.4	9.3	1.9	0.1
3d child . . . . .	11.7	*	2.4	0.4	5.5	22.1	22.7	15.0	7.8	1.7	0.1
4th child . . . . .	5.5	*	0.3	0.0	0.8	8.3	11.8	8.0	4.5	1.1	0.1
5th child . . . . .	2.4	*	0.0	*	0.1	2.6	5.3	4.0	2.3	0.6	0.0
6th and 7th child . . . . .	1.6	*	*	*	*	0.8	3.2	3.2	2.0	0.6	0.0
8th child and over . . . . .	0.5	*	*	*	*	0.0	0.6	1.1	1.0	0.4	0.0
American Indian <sup>2</sup> . . . . .	58.4	1.0	53.1	30.6	87.3	110.0	93.5	57.4	25.4	5.5	0.4
1st child . . . . .	20.7	1.0	41.2	27.5	62.2	41.3	19.4	9.4	3.2	0.5	*
2d child . . . . .	16.1	*	9.9	2.9	20.6	39.1	26.7	13.6	4.7	0.9	*
3d child . . . . .	10.5	*	1.6	*	3.8	20.4	23.4	12.9	5.3	1.0	*
4th child . . . . .	5.7	*	0.2	*	0.6	7.0	13.7	9.4	4.3	0.9	*
5th child . . . . .	2.7	*	*	*	*	1.7	6.2	5.6	3.2	0.7	*
6th and 7th child . . . . .	2.1	*	*	*	*	0.4	3.7	5.0	3.3	0.8	*
8th child and over . . . . .	0.6	*	*	*	*	*	0.4	1.5	1.5	0.6	*
Asian or Pacific Islander . . . . .	66.3	0.2	17.4	8.8	29.8	59.6	108.5	114.6	59.9	13.5	0.9
1st child . . . . .	31.1	0.2	14.2	8.0	23.2	36.2	60.4	46.9	17.7	3.4	0.2
2d child . . . . .	22.9	*	2.7	0.8	5.5	16.4	33.0	45.6	24.7	4.9	0.3
3d child . . . . .	8.0	*	0.4	*	1.0	5.0	10.1	14.8	11.1	2.7	0.1
4th child . . . . .	2.6	*	0.1	*	0.1	1.5	3.2	4.5	3.8	1.2	0.1
5th child . . . . .	0.9	*	*	*	*	0.4	1.1	1.6	1.3	0.5	0.0
6th and 7th child . . . . .	0.5	*	*	*	*	0.1	0.6	0.9	0.9	0.4	0.1
8th child and over . . . . .	0.2	*	*	*	*	*	0.1	0.3	0.5	0.3	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.

<sup>1</sup>Birth rates computed by relating births to women aged 45–54 years to women aged 45–49 years.

<sup>2</sup>Includes births to Aleuts and Eskimos.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 1970–2003, and by age and race of mother: United States, 1980–2003**

[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, 1990, and 2000 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 <sup>1</sup>
			Total	15–17 years	18–19 years						
<b>All races<sup>2</sup></b>											
2003	2,042.5	0.6	41.6	22.4	70.7	102.6	115.6	95.1	43.8	8.7	0.5
2002	2,013.0	0.7	43.0	23.2	72.8	103.6	113.6	91.5	41.4	8.3	0.5
2001	2,034.0	0.8	45.3	24.7	76.1	106.2	113.4	91.9	40.6	8.1	0.5
2000	2,056.0	0.9	47.7	26.9	78.1	109.7	113.5	91.2	39.7	8.0	0.5
1999	2,007.5	0.9	48.8	28.2	79.1	107.9	111.2	87.1	37.8	7.4	0.4
1998	1,999.0	1.0	50.3	29.9	80.9	108.4	110.2	85.2	36.9	7.4	0.4
1997	1,971.0	1.1	51.3	31.4	82.1	107.3	108.3	83.0	35.7	7.1	0.4
1996	1,976.0	1.2	53.5	33.3	84.7	107.8	108.6	82.1	34.9	6.8	0.3
1995	1,978.0	1.3	56.0	35.5	87.7	107.5	108.8	81.1	34.0	6.6	0.3
1994	2,001.5	1.4	58.2	37.2	90.2	109.2	111.0	80.4	33.4	6.4	0.3
1993	2,019.5	1.4	59.0	37.5	91.1	111.3	113.2	79.9	32.7	6.1	0.3
1992	2,046.0	1.4	60.3	37.6	93.6	113.7	115.7	79.6	32.3	5.9	0.3
1991	2,062.5	1.4	61.8	38.6	94.0	115.3	117.2	79.2	31.9	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 <sup>3</sup>	1,806.5	1.2	50.6	31.0	77.4	106.8	108.7	67.0	22.9	3.9	0.2
1983 <sup>3</sup>	1,799.0	1.1	51.4	31.8	77.4	107.8	108.5	64.9	22.0	3.9	0.2
1982 <sup>3</sup>	1,827.5	1.1	52.4	32.3	79.4	111.6	111.0	64.1	21.2	3.9	0.2
1981 <sup>3</sup>	1,812.0	1.1	52.2	32.0	80.0	112.2	111.5	61.4	20.0	3.8	0.2
1980 <sup>3</sup>	1,839.5	1.1	53.0	32.5	82.1	115.1	112.9	61.9	19.8	3.9	0.2
1979 <sup>3</sup>	1,808.0	1.2	52.3	32.3	81.3	112.8	111.4	60.3	19.5	3.9	0.2
1978 <sup>3</sup>	1,760.0	1.2	51.5	32.2	79.8	109.9	108.5	57.8	19.0	3.9	0.2
1977 <sup>3</sup>	1,789.5	1.2	52.8	33.9	80.9	112.9	111.0	56.4	19.2	4.2	0.2
1976 <sup>3</sup>	1,738.0	1.2	52.8	34.1	80.5	110.3	106.2	53.6	19.0	4.3	0.2
1975 <sup>3</sup>	1,774.0	1.3	55.6	36.1	85.0	113.0	108.2	52.3	19.5	4.6	0.3
1974 <sup>3</sup>	1,835.0	1.2	57.5	37.3	88.7	117.7	111.5	53.8	20.2	4.8	0.3
1973 <sup>3</sup>	1,879.0	1.2	59.3	38.5	91.2	119.7	112.2	55.6	22.1	5.4	0.3
1972 <sup>3</sup>	2,010.0	1.2	61.7	39.0	96.9	130.2	117.7	59.8	24.8	6.2	0.4
1971 <sup>4</sup>	2,266.5	1.1	64.5	38.2	105.3	150.1	134.1	67.3	28.7	7.1	0.4
1970 <sup>4</sup>	2,480.0	1.2	68.3	38.8	114.7	167.8	145.1	73.3	31.7	8.1	0.5
<b>White</b>											
2003	2,061.0	0.5	38.3	19.8	66.2	100.6	119.5	99.3	44.8	8.7	0.5
2002	2,027.5	0.5	39.4	20.5	68.0	101.6	117.4	95.5	42.4	8.2	0.5
2001	2,040.0	0.5	41.2	21.4	70.8	103.7	117.0	95.8	41.3	8.0	0.5
2000	2,051.0	0.6	43.2	23.3	72.3	106.6	116.7	94.6	40.2	7.9	0.4
1999	2,007.5	0.6	44.0	24.4	73.0	105.0	114.9	90.7	38.5	7.4	0.4
1998	1,991.0	0.6	44.9	25.6	74.1	105.4	113.6	88.5	37.5	7.3	0.4
1997	1,955.0	0.7	45.5	26.6	75.0	104.5	111.3	85.7	36.1	6.9	0.3
1996	1,960.5	0.7	47.5	28.0	77.6	105.3	111.7	84.6	35.3	6.7	0.3
1995	1,954.5	0.8	49.5	29.6	80.2	104.7	111.7	83.3	34.2	6.4	0.3
1994	1,957.5	0.8	50.5	30.4	81.2	105.0	113.0	82.2	33.5	6.2	0.3
1993	1,961.5	0.8	50.6	30.0	81.5	106.1	114.7	81.3	32.6	5.9	0.3
1992	1,978.0	0.8	51.4	29.9	83.2	107.7	116.9	80.8	32.1	5.7	0.2
1991	1,988.0	0.8	52.6	30.5	83.3	108.8	118.0	80.2	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 <sup>3</sup>	1,748.5	0.6	42.9	24.3	68.4	102.7	109.8	67.7	22.2	3.6	0.2
1983 <sup>3</sup>	1,740.5	0.6	43.9	25.0	68.8	103.8	109.4	65.3	21.3	3.6	0.2
1982 <sup>3</sup>	1,767.0	0.6	45.0	25.5	70.8	107.7	111.9	64.0	20.4	3.6	0.2
1981 <sup>3</sup>	1,748.0	0.5	44.9	25.4	71.5	108.3	112.3	61.0	19.0	3.4	0.2
1980 <sup>3</sup>	1,773.0	0.6	45.4	25.5	73.2	111.1	113.8	61.2	18.8	3.5	0.2

See footnotes at end of table.

**Table 4. Total fertility rates and birth rates, by age of mother: United States, 1970–2003, and by age and race of mother: United States, 1980–2003—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, 1990, and 2000 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 <sup>1</sup>
			Total	15–17 years	18–19 years						
<b>Black</b>											
2003	1,999.0	1.6	63.8	38.2	103.7	126.1	100.4	66.5	33.2	7.7	0.5
2002	1,991.0	1.8	66.6	40.0	107.6	127.1	99.0	64.4	31.5	7.4	0.4
2001	2,051.0	2.0	71.8	43.9	114.0	133.2	99.2	64.8	31.6	7.2	0.4
2000	2,129.0	2.3	77.4	49.0	118.8	141.3	100.3	65.4	31.5	7.2	0.4
1999	2,082.5	2.5	79.1	50.5	120.6	137.9	97.3	62.7	30.2	6.5	0.3
1998	2,111.5	2.8	83.5	55.4	124.8	138.4	97.5	63.2	30.0	6.6	0.3
1997	2,091.5	3.1	86.3	59.3	127.7	135.2	95.0	62.6	29.3	6.5	0.3
1996	2,088.5	3.5	89.6	63.3	130.5	133.2	94.3	62.0	28.7	6.1	0.3
1995	2,127.5	4.1	94.4	68.5	135.0	133.7	95.6	63.0	28.4	6.0	0.3
1994	2,258.5	4.5	102.9	75.1	146.2	142.9	101.5	65.0	28.7	5.9	0.3
1993	2,351.0	4.5	107.3	78.9	150.2	150.2	106.4	66.6	29.0	5.9	0.3
1992	2,416.0	4.6	111.3	80.5	156.3	156.2	109.7	67.0	28.6	5.6	0.2
1991	2,462.0	4.7	114.8	83.5	157.6	159.7	112.0	67.3	28.2	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 <sup>3</sup>	2,070.5	4.4	94.1	69.2	128.1	132.2	98.4	56.7	23.3	4.8	0.2
1983 <sup>3</sup>	2,066.0	4.1	93.9	69.6	127.1	131.9	98.4	56.2	23.3	5.1	0.3
1982 <sup>3</sup>	2,106.5	4.0	94.3	69.7	128.9	135.4	101.3	57.5	23.3	5.1	0.4
1981 <sup>3</sup>	2,117.5	4.0	94.5	69.3	131.0	136.5	102.3	57.4	23.1	5.4	0.3
1980 <sup>3</sup>	2,176.5	4.3	97.8	72.5	135.1	140.0	103.9	59.9	23.5	5.6	0.3
<b>American Indian<sup>5</sup></b>											
2003	1,731.5	1.0	53.1	30.6	87.3	110.0	93.5	57.4	25.4	5.5	0.4
2002	1,735.0	0.9	53.8	30.7	89.2	112.6	91.8	56.4	25.4	5.8	0.3
2001	1,746.5	1.0	56.3	31.4	94.8	115.0	90.4	55.9	24.7	5.7	0.3
2000	1,772.5	1.1	58.3	34.1	97.1	117.2	91.8	55.5	24.6	5.7	0.3
1999	1,783.5	1.4	59.9	36.5	98.0	120.7	90.6	53.8	24.3	5.7	0.3
1998	1,851.0	1.5	64.7	39.7	106.9	125.1	92.0	56.8	24.6	5.3	*
1997	1,834.5	1.5	65.2	41.0	107.1	122.5	91.6	56.0	24.4	5.4	0.3
1996	1,855.0	1.6	68.2	42.7	113.3	123.5	91.1	56.5	24.4	5.5	*
1995	1,878.5	1.6	72.9	44.6	122.2	123.1	91.6	56.5	24.3	5.5	*
1994	1,950.0	1.8	76.4	48.4	123.7	126.5	98.2	56.6	24.8	5.4	0.3
1993	2,048.5	1.4	79.8	51.5	126.3	134.2	103.5	59.5	25.5	5.6	*
1992	2,135.5	1.6	82.4	52.3	130.5	142.3	107.0	61.0	26.7	5.9	*
1991	2,142.5	1.6	84.1	51.9	134.2	143.8	105.6	60.8	26.4	5.8	0.4
1990	2,184.5	1.6	81.1	48.5	129.3	148.7	110.3	61.5	27.5	5.9	*
1989	2,248.5	1.5	82.7	51.6	128.9	152.4	114.2	64.8	27.4	6.4	*
1988	2,155.0	1.7	77.5	49.7	121.1	145.2	110.9	64.5	25.6	5.3	*
1987	2,100.5	1.7	77.2	48.8	122.2	140.0	107.9	63.0	24.4	5.6	*
1986	2,083.0	1.8	78.1	48.7	125.3	138.8	107.9	60.7	23.8	5.3	*
1985	2,129.5	1.7	79.2	47.7	124.1	139.1	109.6	62.6	27.4	6.0	*
1984 <sup>3</sup>	2,137.5	1.7	81.5	50.7	124.7	142.4	109.2	60.5	26.3	5.6	*
1983 <sup>3</sup>	2,182.0	1.9	84.2	55.2	121.4	145.5	113.7	58.9	25.5	6.4	*
1982 <sup>3</sup>	2,215.0	1.4	83.5	52.6	127.6	148.1	115.8	60.9	26.9	6.0	*
1981 <sup>3</sup>	2,092.5	2.1	78.4	49.7	121.5	141.2	105.6	58.9	25.2	6.6	*
1980 <sup>3</sup>	2,165.0	1.9	82.2	51.5	129.5	143.7	106.6	61.8	28.1	8.2	*

See footnotes at end of table.

**Table 4. Total fertility rates and birth rates, by age of mother: United States, 1970–2003, and by age and race of mother: United States, 1980–2003—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, 1990, and 2000 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 <sup>1</sup>
			Total	15–17 years	18–19 years						
Asian or Pacific Islander											
2003 . . . . .	1,873.0	0.2	17.4	8.8	29.8	59.6	108.5	114.6	59.9	13.5	0.9
2002 . . . . .	1,819.5	0.3	18.3	9.0	31.5	60.4	105.4	109.6	56.5	12.5	0.9
2001 . . . . .	1,840.0	0.2	19.8	10.3	32.8	59.1	106.4	112.6	56.7	12.3	0.9
2000 . . . . .	1,892.0	0.3	20.5	11.6	32.6	60.3	108.4	116.5	59.0	12.6	0.8
1999 . . . . .	1,754.5	0.4	21.4	12.4	33.9	58.9	100.8	104.3	52.9	11.3	0.9
1998 . . . . .	1,731.5	0.5	22.2	13.8	34.5	59.2	98.7	101.6	51.4	11.8	0.9
1997 . . . . .	1,757.5	0.5	22.3	14.0	34.9	61.2	101.6	102.5	51.0	11.5	0.9
1996 . . . . .	1,787.0	0.6	23.5	14.7	36.8	63.5	102.8	104.1	50.2	11.9	0.8
1995 . . . . .	1,795.5	0.7	25.5	15.6	40.1	64.2	103.7	102.3	50.1	11.8	0.8
1994 . . . . .	1,834.0	0.7	26.6	16.3	41.3	66.4	108.0	102.2	50.4	11.5	1.0
1993 . . . . .	1,841.5	0.7	26.5	16.1	41.2	68.1	110.3	101.2	49.4	11.2	0.9
1992 . . . . .	1,894.5	0.7	26.5	15.4	41.9	71.7	114.6	102.7	50.7	11.1	0.9
1991 . . . . .	1,928.0	0.8	27.3	16.3	42.2	73.8	118.9	103.3	49.2	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 <sup>3</sup> . . . . .	1,892.0	0.5	24.2	12.6	40.7	86.7	124.3	92.4	40.6	8.7	1.0
1983 <sup>3</sup> . . . . .	1,943.5	0.5	26.1	12.9	44.5	94.0	126.2	93.3	39.4	8.2	1.0
1982 <sup>3</sup> . . . . .	2,015.5	0.4	29.4	14.0	50.8	98.9	130.9	94.4	39.2	8.8	1.1
1981 <sup>3</sup> . . . . .	1,976.0	0.3	28.5	13.4	49.5	96.4	129.1	93.4	38.0	8.6	0.9
1980 <sup>3</sup> . . . . .	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.

<sup>1</sup>Beginning 1997, rates computed by relating births to women aged 45–54 years to women aged 45–49 years.

<sup>2</sup>For 1970–91 includes births to races not shown separately. For 1992 and later years unknown race of mother is imputed; see "Technical Notes."

<sup>3</sup>Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see "Technical Notes."

<sup>4</sup>Based on a 50-percent sample of births.

<sup>5</sup>Includes births to Aleuts and Eskimos.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 1980–2003**

[Rates are live births per 1,000 women aged 15–44 years. Population enumerated as of April 1 for 1980, 1990, and 2000 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 <sup>1</sup>								
2003	66.1	26.5	21.4	11.1	4.3	1.6	0.9	0.3
2002	64.8	25.8	21.1	10.9	4.3	1.5	0.9	0.3
2001	65.3	26.0	21.3	11.0	4.3	1.6	0.9	0.3
2000	65.9	26.5	21.4	11.0	4.2	1.6	0.9	0.3
1999	64.4	26.0	21.0	10.7	4.1	1.5	0.9	0.3
1998	64.3	25.9	21.0	10.6	4.1	1.5	0.9	0.3
1997	63.6	25.9	20.7	10.4	4.0	1.5	0.9	0.3
1996	64.1	26.3	20.7	10.4	4.0	1.5	0.9	0.3
1995	64.6	26.9	20.7	10.3	4.0	1.5	0.9	0.3
1994	65.9	27.1	21.2	10.6	4.1	1.6	0.9	0.3
1993	67.0	27.3	21.7	10.9	4.3	1.6	1.0	0.3
1992	68.4	27.6	22.2	11.2	4.4	1.7	1.0	0.3
1991	69.3	28.2	22.3	11.4	4.4	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 <sup>2</sup>	65.5	27.4	21.7	10.1	3.7	1.4	0.9	0.3
1983 <sup>2</sup>	65.7	27.8	21.5	10.1	3.7	1.4	0.9	0.3
1982 <sup>2</sup>	67.3	28.6	22.0	10.2	3.8	1.4	0.9	0.3
1981 <sup>2</sup>	67.3	29.0	21.6	10.1	3.8	1.5	0.9	0.4
1980 <sup>2</sup>	68.4	29.5	21.8	10.3	3.9	1.5	1.0	0.4
White								
2003	66.1	26.5	21.7	11.2	4.2	1.5	0.8	0.3
2002	64.8	25.7	21.5	11.0	4.1	1.4	0.8	0.2
2001	65.0	25.9	21.6	11.0	4.1	1.4	0.8	0.2
2000	65.3	26.3	21.5	11.0	4.0	1.4	0.8	0.2
1999	64.0	25.9	21.2	10.6	3.9	1.3	0.7	0.2
1998	63.6	25.7	21.2	10.5	3.9	1.3	0.7	0.2
1997	62.8	25.7	20.8	10.2	3.8	1.3	0.7	0.2
1996	63.3	26.2	20.9	10.2	3.8	1.3	0.7	0.2
1995	63.6	26.6	20.9	10.2	3.7	1.3	0.7	0.2
1994	64.2	26.7	21.2	10.3	3.8	1.3	0.7	0.2
1993	64.9	26.8	21.5	10.4	3.9	1.4	0.8	0.2
1992	66.1	27.1	21.9	10.7	4.0	1.4	0.8	0.2
1991	66.7	27.7	21.9	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 <sup>2</sup>	63.2	26.8	21.4	9.6	3.3	1.2	0.7	0.2
1983 <sup>2</sup>	63.4	27.2	21.2	9.5	3.3	1.2	0.7	0.2
1982 <sup>2</sup>	64.8	28.0	21.6	9.6	3.4	1.2	0.7	0.3
1981 <sup>2</sup>	64.8	28.4	21.1	9.5	3.4	1.2	0.8	0.3
1980 <sup>2</sup>	65.6	28.8	21.3	9.6	3.4	1.3	0.8	0.3

See footnotes at end of table.

**Table 5. Fertility rates and birth rates, by live-birth order and race of mother: United States, 1980–2003—Con.**

[Rates are live births per 1,000 women aged 15–44 years. Population enumerated as of April 1 for 1980, 1990, and 2000 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
Black								
2003 . . . . .	66.3	25.1	19.4	11.7	5.5	2.4	1.6	0.5
2002 . . . . .	65.8	24.8	19.2	11.7	5.5	2.4	1.6	0.5
2001 . . . . .	67.6	25.4	19.9	12.1	5.6	2.5	1.6	0.5
2000 . . . . .	70.0	26.2	20.8	12.5	5.8	2.5	1.7	0.6
1999 . . . . .	68.5	25.9	20.4	12.1	5.5	2.4	1.6	0.5
1998 . . . . .	69.4	26.5	20.6	12.0	5.6	2.5	1.7	0.6
1997 . . . . .	69.0	26.7	20.2	11.8	5.5	2.5	1.7	0.6
1996 . . . . .	69.2	27.0	20.1	11.7	5.5	2.5	1.7	0.6
1995 . . . . .	71.0	28.2	20.4	11.8	5.6	2.6	1.8	0.6
1994 . . . . .	75.9	29.4	21.9	12.9	6.2	2.9	2.0	0.6
1993 . . . . .	79.6	29.8	23.1	14.0	6.8	3.1	2.1	0.6
1992 . . . . .	82.4	30.3	24.1	14.8	7.1	3.3	2.1	0.6
1991 . . . . .	84.8	31.3	24.9	15.3	7.3	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 <sup>2</sup> . . . . .	78.1	30.9	23.0	13.2	6.0	2.6	1.7	0.6
1983 <sup>2</sup> . . . . .	78.7	31.1	23.1	13.2	6.1	2.7	1.8	0.6
1982 <sup>2</sup> . . . . .	80.9	31.7	23.9	13.8	6.3	2.7	1.8	0.7
1981 <sup>2</sup> . . . . .	82.0	32.3	24.2	13.7	6.3	2.8	1.9	0.8
1980 <sup>2</sup> . . . . .	84.9	33.7	24.7	14.0	6.5	2.9	2.1	0.9

<sup>1</sup>Includes races other than white and black.

<sup>2</sup>Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see "Technical Notes."

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 1989–2003**

[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 1990 and 2000 and estimated as of July 1 for all other years]

Measure and year	Hispanic							Non-Hispanic		
	All origins <sup>1</sup>	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	White	Black
Number										
2003	4,089,950	912,329	654,504	58,400	14,867	135,586	48,972	3,149,034	2,321,904	576,033
2002	4,021,726	876,642	627,505	57,465	14,232	125,981	51,459	3,119,944	2,298,156	578,335
2001	4,025,933	851,851	611,000	57,568	14,017	121,365	47,901	3,149,572	2,326,578	589,917
2000	4,058,814	815,868	581,915	58,124	13,429	113,344	49,056	3,199,994	2,362,968	604,346
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 <sup>3</sup>	4,049,024	643,271	432,047	59,569	11,472	89,031	51,152	3,365,862	2,527,207	657,450
1991 <sup>3</sup>	4,094,566	623,085	411,233	59,833	11,058	86,908	54,053	3,434,464	2,589,878	666,758
1990 <sup>4</sup>	4,092,994	595,073	385,640	58,807	11,311	83,008	56,307	3,457,417	2,626,500	661,701
1989 <sup>5</sup>	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										
2003 <sup>6</sup>	14.1	22.9	24.7	15.1	9.9	23.0	( <sup>6</sup> )	12.7	11.8	15.9
2002 <sup>6</sup>	13.9	22.6	24.2	16.5	10.0	22.4	( <sup>6</sup> )	12.6	11.7	16.1
2001 <sup>6</sup>	14.1	23.0	24.8	17.8	10.3	21.8	( <sup>6</sup> )	12.8	11.8	16.6
2000 <sup>6</sup>	14.4	23.1	25.0	18.1	9.7	21.8	( <sup>6</sup> )	13.2	12.2	17.3
1999 <sup>6</sup>	14.2	22.5	24.2	18.0	9.4	21.7	( <sup>6</sup> )	13.0	12.1	17.1
1998 <sup>6</sup>	14.3	22.7	24.6	17.9	9.7	21.7	( <sup>6</sup> )	13.2	12.2	17.5
1997 <sup>6</sup>	14.2	23.0	25.3	17.2	10.0	21.3	( <sup>6</sup> )	13.1	12.2	17.4
1996 <sup>6</sup>	14.4	23.8	26.2	17.2	10.6	22.5	( <sup>6</sup> )	13.3	12.3	17.6
1995 <sup>6</sup>	14.6	24.1	25.8	19.0	10.8	24.2	( <sup>6</sup> )	13.5	12.5	18.2
1994 <sup>6</sup>	15.0	24.7	26.1	20.8	10.7	24.9	( <sup>6</sup> )	13.9	12.8	19.5
1993 <sup>6</sup>	15.4	25.4	26.8	21.5	10.5	26.3	( <sup>6</sup> )	14.3	13.1	20.7
1992 <sup>6,7</sup>	15.8	26.1	27.4	22.9	10.1	27.5	( <sup>6</sup> )	14.8	13.4	21.6
1991 <sup>6,7</sup>	16.2	26.5	27.6	23.3	9.8	28.3	( <sup>6</sup> )	15.2	13.9	22.4
1990 <sup>4,6</sup>	16.7	26.7	28.7	21.6	10.9	27.5	( <sup>6</sup> )	15.7	14.4	23.0
1989 <sup>5,6</sup>	16.3	26.2	25.7	23.7	10.0	28.3	( <sup>6</sup> )	15.4	14.2	22.8
Fertility rate										
2003 <sup>6</sup>	66.1	96.9	105.5	61.6	61.7	91.2	( <sup>6</sup> )	60.5	58.5	67.1
2002 <sup>6</sup>	64.8	94.4	102.8	65.4	59.0	86.1	( <sup>6</sup> )	59.6	57.4	67.4
2001 <sup>6</sup>	65.3	96.0	105.7	72.2	56.7	82.7	( <sup>6</sup> )	60.1	57.7	69.1
2000 <sup>6</sup>	65.9	95.9	105.1	73.5	49.3	85.1	( <sup>6</sup> )	61.1	58.5	71.4
1999 <sup>6</sup>	64.4	93.0	101.5	71.1	47.0	84.8	( <sup>6</sup> )	60.0	57.7	69.9
1998 <sup>6</sup>	64.3	93.2	103.2	69.7	46.5	83.5	( <sup>6</sup> )	60.0	57.6	70.9
1997 <sup>6</sup>	63.6	94.2	106.6	65.8	53.1	80.6	( <sup>6</sup> )	59.3	56.8	70.3
1996 <sup>6</sup>	64.1	97.5	110.7	66.5	55.1	84.2	( <sup>6</sup> )	59.6	57.1	70.7
1995 <sup>6</sup>	64.6	98.8	109.9	71.3	52.2	89.1	( <sup>6</sup> )	60.2	57.5	72.8
1994 <sup>6</sup>	65.9	100.7	109.9	78.2	53.6	93.2	( <sup>6</sup> )	61.6	58.2	77.5
1993 <sup>6</sup>	67.0	103.3	110.9	79.8	53.9	101.5	( <sup>6</sup> )	62.7	58.9	81.5
1992 <sup>6,7</sup>	68.4	106.1	113.3	87.9	49.4	104.7	( <sup>6</sup> )	64.2	60.0	84.5
1991 <sup>6,7</sup>	69.3	106.9	114.9	87.9	47.6	105.5	( <sup>6</sup> )	65.2	60.9	87.0
1990 <sup>4,6</sup>	71.0	107.7	118.9	82.9	52.6	102.7	( <sup>6</sup> )	67.1	62.8	89.0
1989 <sup>5,6</sup>	69.2	104.9	106.6	86.6	49.8	95.8	( <sup>6</sup> )	65.7	60.5	84.8

<sup>1</sup>Includes origin not stated.

<sup>2</sup>Includes races other than white and black.

<sup>3</sup>Excludes data for New Hampshire, which did not report Hispanic origin.

<sup>4</sup>Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.

<sup>5</sup>Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

<sup>6</sup>Rates for the Central and South American population include other and unknown Hispanic.

<sup>7</sup>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."

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

[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	Age of mother														
	All ages	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							
<b>Hispanic</b>															
Total . . . . .	912,329	2,356	128,524	6,818	15,151	24,986	35,927	45,642	273,311	246,361	169,054	75,801	16,172	738	12
1st child . . . . .	330,032	2,299	98,961	6,519	13,784	20,918	27,208	30,532	117,279	64,418	33,173	11,638	2,141	122	1
2d child . . . . .	280,462	47	24,661	257	1,264	3,627	7,431	12,082	98,707	85,060	49,833	18,733	3,296	122	3
3d child . . . . .	175,225	1	3,993	16	66	341	1,059	2,511	41,204	60,095	46,009	20,158	3,618	146	1
4th child . . . . .	76,317	1	484	2	4	26	105	347	11,768	24,359	24,007	12,700	2,887	108	3
5th child . . . . .	28,959	–	53	–	1	2	9	41	2,812	8,148	9,527	6,568	1,771	78	2
6th child . . . . .	10,928	–	8	1	–	1	2	4	598	2,452	3,678	3,071	1,053	67	1
7th child . . . . .	4,489	–	1	–	1	–	–	–	128	840	1,416	1,457	613	33	1
8th child and over . . . . .	3,545	–	2	–	–	–	–	2	58	374	1,031	1,279	740	61	–
Not stated . . . . .	2,372	8	361	23	31	71	113	123	757	615	380	197	53	1	–
<b>Mexican</b>															
Total . . . . .	654,504	1,842	98,396	5,274	11,741	19,252	27,538	34,591	203,314	177,499	115,033	48,120	9,858	435	7
1st child . . . . .	227,447	1,799	74,989	5,043	10,643	15,986	20,603	22,714	84,114	41,396	18,402	5,732	966	48	1
2d child . . . . .	198,082	34	19,483	200	1,010	2,910	5,902	9,461	74,905	60,948	31,196	9,884	1,569	61	2
3d child . . . . .	130,702	1	3,224	13	57	278	863	2,013	31,767	46,404	33,855	13,232	2,143	75	1
4th child . . . . .	58,997	1	393	2	4	23	85	279	9,143	19,114	18,942	9,384	1,955	64	1
5th child . . . . .	22,709	–	45	–	1	2	8	34	2,202	6,368	7,589	5,132	1,317	56	–
6th child . . . . .	8,509	–	8	1	–	1	2	4	485	1,883	2,876	2,412	794	50	1
7th child . . . . .	3,600	–	1	–	1	–	–	–	112	678	1,123	1,181	477	27	1
8th child and over . . . . .	2,819	–	2	–	–	–	–	2	47	288	794	1,030	604	54	–
Not stated . . . . .	1,639	7	251	15	25	52	75	84	539	420	256	133	33	–	–
<b>Puerto Rican</b>															
Total . . . . .	58,400	191	10,239	579	1,203	2,038	2,804	3,615	19,004	14,169	9,301	4,515	934	47	–
1st child . . . . .	22,913	189	7,980	558	1,105	1,740	2,137	2,440	7,697	3,727	2,255	872	184	9	–
2d child . . . . .	18,020	2	1,890	18	96	269	569	938	6,672	4,734	3,043	1,406	261	12	–
3d child . . . . .	10,222	–	288	1	2	20	73	192	3,210	3,291	2,113	1,114	199	7	–
4th child . . . . .	4,262	–	48	–	–	2	12	34	1,038	1,466	1,000	562	142	6	–
5th child . . . . .	1,629	–	1	–	–	–	1	–	266	546	466	277	65	8	–
6th child . . . . .	705	–	–	–	–	–	–	–	48	246	222	146	42	1	–
7th child . . . . .	260	–	–	–	–	–	–	–	11	77	96	59	16	1	–
8th child and over . . . . .	220	–	–	–	–	–	–	–	3	44	82	67	22	2	–
Not stated . . . . .	169	–	32	2	–	7	12	11	59	38	24	12	3	1	–
<b>Cuban</b>															
Total . . . . .	14,867	15	1,162	36	104	209	339	474	2,608	3,966	4,298	2,283	511	24	–
1st child . . . . .	6,969	14	990	35	99	193	286	377	1,585	1,966	1,623	652	131	8	–
2d child . . . . .	5,283	1	148	1	5	12	43	87	760	1,404	1,835	951	178	6	–
3d child . . . . .	1,885	–	18	–	–	3	8	7	207	440	639	465	109	7	–
4th child . . . . .	493	–	1	–	–	–	–	1	41	120	146	130	53	2	–
5th child . . . . .	130	–	1	–	–	–	–	1	10	20	33	45	20	1	–
6th child . . . . .	54	–	–	–	–	–	–	–	1	8	13	23	9	–	–
7th child . . . . .	20	–	–	–	–	–	–	–	–	4	5	6	5	–	–
8th child and over . . . . .	15	–	–	–	–	–	–	–	–	2	–	8	5	–	–
Not stated . . . . .	18	–	4	–	–	1	2	1	4	2	4	3	1	–	–
<b>Central and South American</b>															
Total . . . . .	135,586	152	11,119	440	1,140	2,009	3,204	4,326	33,588	38,505	31,448	16,629	3,960	183	2
1st child . . . . .	53,522	148	9,096	422	1,050	1,761	2,599	3,264	17,692	13,780	8,615	3,462	689	40	–
2d child . . . . .	43,849	4	1,749	16	84	223	532	894	11,133	13,816	10,794	5,269	1,051	33	–
3d child . . . . .	23,856	–	227	–	1	21	63	142	3,663	7,279	7,339	4,306	996	46	–
4th child . . . . .	8,940	–	19	–	–	–	3	16	822	2,464	2,951	2,058	595	30	1
5th child . . . . .	3,205	–	3	–	–	–	–	3	168	807	1,072	850	292	12	1
6th child . . . . .	1,170	–	–	–	–	–	–	–	27	203	399	372	155	14	–
7th child . . . . .	430	–	–	–	–	–	–	–	3	43	131	157	92	4	–
8th child and over . . . . .	335	–	–	–	–	–	–	–	7	21	97	124	82	4	–
Not stated . . . . .	279	–	25	2	5	4	7	7	73	92	50	31	8	–	–

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, 2003—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	Age of mother															
	All ages	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								
Other and unknown																
Hispanic . . . . .	48,972	156	7,608	489	963	1,478	2,042	2,636	14,797	12,222	8,974	4,254	909	49	3	
1st child . . . . .	19,181	149	5,906	461	887	1,238	1,583	1,737	6,191	3,549	2,278	920	171	17	–	
2d child . . . . .	15,228	6	1,391	22	69	213	385	702	5,237	4,158	2,965	1,223	237	10	1	
3d child . . . . .	8,560	–	236	2	6	19	52	157	2,357	2,681	2,063	1,041	171	11	–	
4th child . . . . .	3,625	–	23	–	–	1	5	17	724	1,195	968	566	142	6	1	
5th child . . . . .	1,286	–	3	–	–	–	–	3	166	407	367	264	77	1	1	
6th child . . . . .	490	–	–	–	–	–	–	–	37	112	168	118	53	2	–	
7th child . . . . .	179	–	–	–	–	–	–	–	2	38	61	54	23	1	–	
8th child and over . . . . .	156	–	–	–	–	–	–	–	1	19	58	50	27	1	–	
Not stated . . . . .	267	1	49	4	1	7	17	20	82	63	46	18	8	–	–	
Non-Hispanic																
Total <sup>1</sup> . . . . .	3,149,034	4,258	283,602	11,317	25,956	49,350	81,111	115,868	752,607	832,783	799,179	387,807	83,812	4,689	297	
1st child . . . . .	1,292,838	4,171	229,334	10,910	24,164	43,361	65,861	85,038	361,482	327,158	252,813	96,684	19,849	1,257	90	
2d child . . . . .	1,031,628	74	45,498	368	1,614	5,425	13,054	25,037	251,100	279,333	296,055	133,018	25,224	1,258	68	
3d child . . . . .	504,732	3	7,148	10	98	423	1,800	4,817	100,098	141,324	151,304	86,893	17,162	756	44	
4th child . . . . .	189,495	–	832	3	8	30	164	627	28,719	53,773	58,077	38,211	9,387	464	32	
5th child . . . . .	67,577	–	107	1	–	3	26	77	7,150	18,696	21,369	15,251	4,687	296	21	
6th child . . . . .	27,525	–	14	–	–	–	3	11	1,608	6,660	9,237	7,252	2,561	178	15	
7th child . . . . .	12,679	–	3	–	–	–	3	–	370	2,456	4,305	3,947	1,473	119	6	
8th child and over . . . . .	14,337	–	5	–	–	–	2	3	123	1,303	4,005	5,385	3,155	343	18	
Not stated . . . . .	8,223	10	661	25	72	108	198	258	1,957	2,080	2,014	1,166	314	18	3	
White . . . . .																
1st child . . . . .	961,897	1,384	144,011	4,754	12,743	25,917	42,636	57,961	264,696	256,719	200,974	77,145	15,872	1,022	74	
2d child . . . . .	780,026	12	24,817	111	585	2,424	6,958	14,739	176,115	216,354	236,903	105,130	19,630	1,004	61	
3d child . . . . .	370,971	1	3,137	3	17	144	725	2,248	62,118	103,249	119,674	69,039	13,142	573	38	
4th child . . . . .	129,615	–	270	1	2	7	49	211	14,613	34,879	43,045	29,324	7,106	352	26	
5th child . . . . .	42,120	–	36	–	–	1	11	24	2,879	10,364	14,269	10,930	3,404	218	20	
6th child . . . . .	15,932	–	2	–	–	–	1	1	496	3,093	5,580	4,833	1,789	128	11	
7th child . . . . .	7,201	–	1	–	–	–	1	–	112	927	2,430	2,597	1,048	82	4	
8th child and over . . . . .	8,643	–	2	–	–	–	1	1	49	439	2,006	3,481	2,391	267	8	
Not stated . . . . .	5,499	2	344	9	28	57	102	148	1,197	1,413	1,434	875	218	14	2	
Black . . . . .																
1st child . . . . .	217,190	2,572	74,576	5,590	10,193	15,383	20,298	23,112	74,504	33,589	20,636	9,106	2,084	117	6	
2d child . . . . .	167,441	61	18,414	240	931	2,723	5,437	9,083	62,774	41,512	28,434	13,263	2,849	130	4	
3d child . . . . .	101,657	1	3,648	7	76	259	976	2,330	33,281	30,174	20,938	11,055	2,446	110	4	
4th child . . . . .	48,203	–	509	2	6	20	104	377	12,602	15,816	11,272	6,368	1,560	72	4	
5th child . . . . .	20,934	–	64	–	–	2	14	48	3,902	7,124	5,590	3,242	960	51	1	
6th child . . . . .	9,547	–	10	–	–	–	1	9	1,019	3,062	2,947	1,878	595	35	1	
7th child . . . . .	4,488	–	2	–	–	–	2	–	235	1,316	1,539	1,051	319	24	2	
8th child and over . . . . .	4,555	–	3	–	–	–	1	2	64	762	1,633	1,497	545	46	5	
Not stated . . . . .	2,018	8	283	13	41	44	82	103	639	466	357	201	61	3	–	

– Quantity zero.

<sup>1</sup>Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

[Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15–44 years. Birth rates are live births per 1,000 women in specified age and racial group. Populations estimated as of July 1. 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	Age of mother										
	15–44 years <sup>1</sup>	10–14 years	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years	45–49 years <sup>2</sup>
			Total	15–17 years	18–19 years						
<b>Hispanic</b>											
Total . . . . .	96.9	1.3	82.3	49.7	132.0	163.4	144.4	102.0	50.8	12.2	0.7
1st child . . . . .	35.2	1.3	63.5	43.8	93.7	70.3	37.8	20.1	7.8	1.6	0.1
2d child . . . . .	29.9	0.0	15.8	5.5	31.7	59.2	50.0	30.1	12.6	2.5	0.1
3d child . . . . .	18.7	*	2.6	0.4	5.8	24.7	35.3	27.8	13.5	2.7	0.1
4th child . . . . .	8.1	*	0.3	0.0	0.7	7.1	14.3	14.5	8.5	2.2	0.1
5th child . . . . .	3.1	*	0.0	*	0.1	1.7	4.8	5.8	4.4	1.3	0.1
6th and 7th child . . . . .	1.6	*	*	*	*	0.4	1.9	3.1	3.0	1.3	0.1
8th child and over . . . . .	0.4	*	*	*	*	0.0	0.2	0.6	0.9	0.6	0.1
Mexican . . . . .	105.5	1.5	93.2	56.9	148.8	176.9	151.5	104.7	50.2	12.8	0.7
1st child . . . . .	36.8	1.4	71.2	49.8	104.0	73.4	35.4	16.8	6.0	1.3	0.1
2d child . . . . .	32.0	0.0	18.5	6.5	36.9	65.3	52.1	28.5	10.3	2.0	0.1
3d child . . . . .	21.1	*	3.1	0.5	6.9	27.7	39.7	30.9	13.8	2.8	0.1
4th child . . . . .	9.5	*	0.4	0.0	0.9	8.0	16.3	17.3	9.8	2.6	0.1
5th child . . . . .	3.7	*	0.0	*	0.1	1.9	5.4	6.9	5.4	1.7	0.1
6th and 7th child . . . . .	2.0	*	*	*	*	0.5	2.2	3.6	3.8	1.7	0.1
8th child and over . . . . .	0.5	*	*	*	*	0.0	0.2	0.7	1.1	0.8	0.1
Puerto Rican . . . . .	61.6	1.0	60.8	35.9	*	127.9	86.6	55.6	29.5	6.4	0.4
1st child . . . . .	24.3	1.0	47.5	32.1	*	52.0	22.8	13.5	5.7	1.3	*
2d child . . . . .	19.1	*	11.3	3.6	*	45.1	29.0	18.3	9.2	1.8	*
3d child . . . . .	10.8	*	1.7	0.2	*	21.7	20.2	12.7	7.3	1.4	*
4th child . . . . .	4.5	*	0.3	*	*	7.0	9.0	6.0	3.7	1.0	*
5th child . . . . .	1.7	*	*	*	*	1.8	3.3	2.8	1.8	0.4	*
6th and 7th child . . . . .	1.0	*	*	*	*	0.4	2.0	1.9	1.3	0.4	*
8th child and over . . . . .	0.2	*	*	*	*	*	0.3	0.5	0.4	0.1	*
Cuban . . . . .	61.7	*	*	*	*	*	*	*	*	*	*
1st child . . . . .	29.0	*	*	*	*	*	*	*	*	*	*
2d child . . . . .	22.0	*	*	*	*	*	*	*	*	*	*
3d child . . . . .	7.8	*	*	*	*	*	*	*	*	*	*
4th child . . . . .	2.1	*	*	*	*	*	*	*	*	*	*
5th child . . . . .	0.5	*	*	*	*	*	*	*	*	*	*
6th and 7th child . . . . .	0.3	*	*	*	*	*	*	*	*	*	*
8th child and over . . . . .	*	*	*	*	*	*	*	*	*	*	*
Other Hispanic <sup>3</sup> . . . . .	91.2	1.0	60.4	36.4	93.1	142.2	152.8	112.3	63.2	13.9	0.8
1st child . . . . .	36.0	1.0	48.6	32.6	70.3	70.4	52.3	30.3	13.3	2.5	0.2
2d child . . . . .	29.3	*	10.2	3.5	19.2	48.3	54.3	38.3	19.7	3.7	0.2
3d child . . . . .	16.1	*	1.5	0.3	3.2	17.7	30.1	26.2	16.2	3.3	0.2
4th child . . . . .	6.2	*	0.1	*	0.3	4.6	11.1	10.9	8.0	2.1	0.1
5th child . . . . .	2.2	*	*	*	*	1.0	3.7	4.0	3.4	1.1	*
6th and 7th child . . . . .	1.1	*	*	*	*	0.2	1.2	2.1	2.1	0.9	0.1
8th child and over . . . . .	0.2	*	*	*	*	*	0.1	0.4	0.5	0.3	*
<b>Non-Hispanic<sup>4</sup></b>											
Total <sup>5</sup> . . . . .	60.5	0.5	34.1	17.3	59.4	90.5	109.2	93.8	42.6	8.3	0.5
1st child . . . . .	24.9	0.5	27.6	15.7	45.6	43.5	43.0	29.8	10.7	2.0	0.1
2d child . . . . .	19.9	0.0	5.5	1.5	11.5	30.3	36.7	34.8	14.7	2.5	0.1
3d child . . . . .	9.7	*	0.9	0.1	2.0	12.1	18.6	17.8	9.6	1.7	0.1
4th child . . . . .	3.7	*	0.1	0.0	0.2	3.5	7.1	6.8	4.2	0.9	0.1
5th child . . . . .	1.3	*	0.0	*	0.0	0.9	2.5	2.5	1.7	0.5	0.0
6th and 7th child . . . . .	0.8	*	*	*	*	0.2	1.2	1.6	1.2	0.4	0.0
8th child and over . . . . .	0.3	*	*	*	*	0.0	0.2	0.5	0.6	0.3	0.0

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, 2003—Con.**

[Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15–44 years. Birth rates are live births per 1,000 women in specified age and racial group. Populations estimated as of July 1. 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	Age of mother										
	15–44 years <sup>1</sup>	10–14 years	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years	45–49 years <sup>2</sup>
			Total	15–17 years	18–19 years						
White . . . . .	58.5	0.2	27.4	12.4	50.0	83.5	110.8	97.6	43.2	8.1	0.5
1st child . . . . .	24.3	0.2	22.9	11.5	40.1	42.4	45.5	31.4	11.0	2.0	0.1
2d child . . . . .	19.7	*	4.0	0.8	8.7	28.2	38.3	37.0	15.0	2.5	0.1
3d child . . . . .	9.4	*	0.5	0.0	1.2	10.0	18.3	18.7	9.9	1.6	0.1
4th child . . . . .	3.3	*	0.0	*	0.1	2.3	6.2	6.7	4.2	0.9	0.0
5th child . . . . .	1.1	*	0.0	*	0.0	0.5	1.8	2.2	1.6	0.4	0.0
6th and 7th child . . . . .	0.6	*	*	*	*	0.1	0.7	1.3	1.1	0.4	0.0
8th child and over . . . . .	0.2	*	*	*	*	0.0	0.1	0.3	0.5	0.3	0.0
Black . . . . .	67.1	1.6	64.7	38.7	105.3	128.1	102.1	67.4	33.4	7.7	0.5
1st child . . . . .	25.4	1.6	49.7	34.1	74.0	50.7	25.7	15.0	6.4	1.4	0.1
2d child . . . . .	19.6	0.0	12.2	4.3	24.7	42.7	31.7	20.6	9.3	1.9	0.1
3d child . . . . .	11.9	*	2.4	0.4	5.6	22.6	23.1	15.2	7.8	1.7	0.1
4th child . . . . .	5.6	*	0.3	0.0	0.8	8.6	12.1	8.2	4.5	1.1	0.1
5th child . . . . .	2.5	*	0.0	*	0.1	2.7	5.5	4.1	2.3	0.7	0.0
6th and 7th child . . . . .	1.6	*	*	*	*	0.9	3.4	3.3	2.1	0.6	0.0
8th child and over . . . . .	0.5	*	*	*	*	0.0	0.6	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 or, for the Hispanic subgroups, fewer than 75,000 women in the denominator; see "Technical Notes." These guidelines for denominator size follow the suggestions of the U.S. Census Bureau.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup>Fertility rates computed by relating total births, regardless of age of mother, to women aged 15–44 years.

<sup>2</sup>Birth rates computed by relating births to women aged 45–54 years to women aged 45–49 years.

<sup>3</sup>Includes Central and South American and other and unknown Hispanic.

<sup>4</sup>Includes origin not stated.

<sup>5</sup>Includes races other than white and black.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. Persons of Hispanic origin may be of any race. In this table only non-Hispanic women are classified by race.

**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, 1989–2003**

[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 2000 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 or race of mother	Total fertility rate	Fertility rate <sup>1</sup>	10–14 years	Age of mother								
				15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years	45–49 years <sup>2</sup>
				Total	15–17 years	18–19 years						
All origins												
2003	2,042.5	66.1	0.6	41.6	22.4	70.7	102.6	115.6	95.1	43.8	8.7	0.5
2002	2,013.0	64.8	0.7	43.0	23.2	72.8	103.6	113.6	91.5	41.4	8.3	0.5
2001	2,034.0	65.3	0.8	45.3	24.7	76.1	106.2	113.4	91.9	40.6	8.1	0.5
2000	2,056.0	65.9	0.9	47.7	26.9	78.1	109.7	113.5	91.2	39.7	8.0	0.5
1999	2,007.5	64.4	0.9	48.8	28.2	79.1	107.9	111.2	87.1	37.8	7.4	0.4
1998	1,999.0	64.3	1.0	50.3	29.9	80.9	108.4	110.2	85.2	36.9	7.4	0.4
1997	1,971.0	63.6	1.1	51.3	31.4	82.1	107.3	108.3	83.0	35.7	7.1	0.4
1996	1,976.0	64.1	1.2	53.5	33.3	84.7	107.8	108.6	82.1	34.9	6.8	0.3
1995	1,978.0	64.6	1.3	56.0	35.5	87.7	107.5	108.8	81.1	34.0	6.6	0.3
1994	2,001.5	65.9	1.4	58.2	37.2	90.2	109.2	111.0	80.4	33.4	6.4	0.3
1993	2,019.5	67.0	1.4	59.0	37.5	91.1	111.3	113.2	79.9	32.7	6.1	0.3
1992	2,046.0	68.4	1.4	60.3	37.6	93.6	113.7	115.7	79.6	32.3	5.9	0.3
1991	2,062.5	69.3	1.4	61.8	38.6	94.0	115.3	117.2	79.2	31.9	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												
2003	2,785.5	96.9	1.3	82.3	49.7	132.0	163.4	144.4	102.0	50.8	12.2	0.7
2002	2,718.0	94.4	1.4	83.4	50.7	133.0	164.3	139.4	95.1	47.8	11.5	0.7
2001	2,748.5	96.0	1.6	86.4	52.8	135.5	163.5	140.4	97.6	47.9	11.6	0.7
2000	2,730.0	95.9	1.7	87.3	55.5	132.6	161.3	139.9	97.1	46.6	11.5	0.6
1999	2,649.0	93.0	1.9	86.8	56.9	129.5	157.3	135.8	92.3	44.5	10.6	0.6
1998	2,652.5	93.2	1.9	87.9	58.5	131.5	159.3	136.1	90.5	43.4	10.8	0.6
1997	2,680.5	94.2	2.1	89.6	61.1	132.4	162.6	137.5	89.6	43.4	10.7	0.6
1996	2,772.0	97.5	2.4	94.6	64.2	140.0	170.2	140.7	91.3	43.9	10.7	0.6
1995	2,798.5	98.8	2.6	99.3	68.3	145.4	171.9	140.4	90.5	43.7	10.7	0.6
1994	2,839.0	100.7	2.6	101.3	69.9	147.5	175.7	142.4	91.1	43.4	10.7	0.6
1993	2,894.5	103.3	2.6	101.8	68.5	151.1	180.0	146.0	93.2	44.1	10.6	0.6
1992 <sup>3</sup>	2,957.5	106.1	2.5	103.3	68.9	153.9	185.2	148.8	94.8	45.3	11.0	0.6
1991 <sup>3</sup>	2,963.5	106.9	2.4	104.6	69.2	155.5	184.6	150.0	95.1	44.7	10.7	0.6
1990 <sup>4</sup>	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 <sup>5</sup>	2,903.5	104.9	2.3	100.8	---	---	184.4	146.6	92.1	43.5	10.4	0.6
Mexican												
2003	2,957.5	105.5	1.5	93.2	56.9	148.8	176.9	151.5	104.7	50.2	12.8	0.7
2002	2,879.5	102.8	1.5	94.5	58.6	147.5	176.9	144.5	97.9	47.5	12.3	0.8
2001	2,928.5	105.7	1.7	95.4	59.3	147.0	177.0	146.4	101.9	50.0	12.6	0.7
2000	2,906.5	105.1	1.9	95.4	60.6	146.7	174.9	144.7	102.3	49.2	12.2	0.7
1999	2,823.0	101.5	2.1	94.3	60.8	145.6	170.8	141.4	97.4	47.2	10.7	0.7
1998	2,878.0	103.2	2.1	96.4	62.9	149.2	176.5	147.4	94.9	46.9	10.8	0.6
1997	2,957.0	106.6	2.3	103.4	71.3	151.6	180.9	150.0	95.3	47.4	11.5	0.6
1996	3,052.0	110.7	2.6	112.2	77.7	161.6	185.3	154.7	96.5	46.4	12.0	0.7
1995	3,033.5	109.9	2.7	115.9	79.1	170.7	190.4	146.6	93.0	45.5	11.9	0.7
1994	3,024.0	109.9	2.7	109.2	73.6	163.3	189.1	153.6	92.5	45.3	11.7	0.7
1993	3,041.5	110.9	2.5	103.6	68.4	156.6	187.9	159.5	97.2	45.5	11.3	0.8
1992 <sup>3</sup>	3,107.0	113.3	2.4	105.1	---	---	196.6	160.2	97.1	47.4	11.8	0.8
1991 <sup>3</sup>	3,103.5	114.9	2.5	108.3	70.0	164.7	192.4	156.1	99.7	49.1	11.9	0.7
1990 <sup>4</sup>	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 <sup>5</sup>	2,916.5	106.6	2.0	94.5	---	---	184.3	153.7	96.1	41.0	11.1	0.6

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, 1989–2003—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 2000 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 or race of mother	Total fertility rate	Fertility rate <sup>1</sup>	10–14 years	Age of mother								
				15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years	45–49 years <sup>2</sup>
				Total	15–17 years	18–19 years						
<b>Puerto Rican</b>												
2003	1,841.0	61.6	1.0	60.8	35.9	*	127.9	86.6	55.6	29.5	6.4	0.4
2002	1,947.5	65.4	1.4	61.4	39.7	*	136.5	90.6	61.5	31.3	6.3	0.5
2001	2,165.0	72.2	1.7	82.2	*	*	147.2	93.6	70.5	30.7	6.7	0.4
2000	2,178.5	73.5	1.7	82.9	54.7	120.4	149.5	101.6	61.1	32.0	6.6	0.3
1999	2,104.5	71.1	1.6	74.0	49.4	*	146.0	106.5	58.0	27.3	7.2	0.3
1998	2,043.5	69.7	1.8	76.2	51.7	*	146.7	88.7	61.9	25.8	7.2	0.4
1997	1,931.5	65.8	1.7	68.9	45.0	*	136.0	92.9	54.1	26.1	6.2	0.4
1996	1,965.0	66.5	1.9	76.5	48.6	*	133.7	95.6	54.3	25.2	5.6	*
1995	2,078.0	71.3	2.9	82.8	57.3	*	138.1	97.9	61.2	26.9	5.5	0.3
1994	2,341.5	78.2	3.1	99.6	68.8	*	169.0	103.8	59.5	27.5	5.6	0.2
1993	2,416.0	79.8	3.1	104.9	70.1	*	184.6	102.8	54.4	26.7	6.2	*
1992 <sup>3</sup>	2,568.5	87.9	3.4	106.5	---	---	199.1	102.6	65.3	29.9	6.6	*
1991 <sup>3</sup>	2,573.5	87.9	2.7	111.0	*	*	193.3	108.9	68.1	23.9	6.5	*
1990 <sup>4</sup>	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 <sup>5</sup>	2,421.0	86.6	3.8	112.7	---	---	171.0	98.0	65.2	26.9	6.3	*
<b>Cuban</b>												
2003	2,059.5	61.7	*	*	*	*	*	*	*	*	*	*
2002	1,940.5	59.0	*	*	*	*	*	*	*	*	*	*
2001	1,792.5	56.7	*	*	*	*	*	*	*	*	*	*
2000	1,528.0	49.3	*	23.5	14.2	43.4	64.2	104.0	68.1	37.3	7.9	*
1999	1,388.5	47.0	*	*	*	*	*	*	*	*	*	*
1998	1,402.5	46.5	*	*	*	*	*	*	*	*	*	*
1997	1,619.5	53.1	*	*	*	*	*	*	*	*	*	*
1996	1,617.0	55.1	*	*	*	*	*	*	*	*	*	*
1995	1,584.0	52.2	*	*	*	*	*	*	*	*	*	*
1994	1,587.0	53.6	*	*	*	*	*	*	*	*	*	*
1993	1,570.0	53.9	*	*	*	*	*	*	*	*	*	*
1992 <sup>3</sup>	1,453.5	49.4	*	*	---	---	*	*	*	*	*	*
1991 <sup>3</sup>	1,352.5	47.6	*	*	*	*	*	*	*	*	*	*
1990 <sup>4</sup>	1,459.5	52.6	*	30.3	18.2	46.1	64.6	95.4	67.6	28.2	4.9	*
1989 <sup>5</sup>	1,479.0	49.8	*	*	---	---	*	*	*	*	*	*
<b>Other Hispanic<sup>6</sup></b>												
2003	2,733.0	91.2	1.0	60.4	36.4	93.1	142.2	152.8	112.3	63.2	13.9	0.8
2002	2,610.5	86.1	1.1	63.0	34.7	110.3	143.3	147.2	98.4	56.1	12.2	0.8
2001	2,519.5	82.7	1.1	65.3	35.6	115.2	136.0	143.3	95.4	50.3	11.6	0.9
2000	2,563.5	85.1	1.2	69.9	44.4	102.0	133.2	143.9	103.6	47.7	12.5	0.7
1999	2,517.0	84.8	1.5	75.5	53.1	100.5	130.2	138.4	98.3	46.5	12.3	0.7
1998	2,448.5	83.5	1.8	75.0	53.3	100.3	122.7	133.6	97.8	45.4	12.8	0.6
1997	2,376.5	80.6	1.8	66.4	44.5	98.0	129.3	125.8	95.6	43.9	11.8	0.7
1996	2,516.5	84.2	2.2	64.8	43.4	95.6	149.6	127.9	98.0	49.1	11.0	0.7
1995	2,629.5	89.1	2.3	72.1	51.3	99.4	144.3	147.7	97.9	49.4	11.6	0.6
1994	2,693.0	93.2	2.5	82.6	62.7	105.0	151.2	137.0	104.4	48.4	11.9	0.6
1993	2,914.5	101.5	2.6	102.0	74.7	134.6	167.5	139.4	106.7	51.7	12.5	0.5
1992 <sup>3</sup>	2,989.0	104.7	2.4	108.2	---	---	168.0	151.9	104.4	49.9	12.5	0.5
1991 <sup>3</sup>	3,064.5	105.5	2.2	100.7	67.3	145.6	184.1	164.5	100.2	49.2	11.4	0.6
1990 <sup>4</sup>	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 <sup>5</sup>	2,683.0	95.8	1.7	66.4	---	---	159.2	150.4	85.1	60.3	12.7	0.8

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, 1989–2003—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 2000 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 or race of mother	Total fertility rate	Fertility rate <sup>1</sup>	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 <sup>2</sup>
				Total	15–17 years	18–19 years						
Non-Hispanic <sup>7</sup>												
Total <sup>6</sup>												
2003	1,897.5	60.5	0.5	34.1	17.3	59.4	90.5	109.2	93.8	42.6	8.3	0.5
2002	1,877.0	59.6	0.6	35.5	18.2	61.8	91.8	107.9	90.8	40.4	7.9	0.5
2001	1,898.5	60.1	0.6	37.9	19.6	65.2	94.9	107.7	90.9	39.5	7.7	0.5
2000	1,931.5	61.1	0.7	40.7	21.9	68.2	99.5	108.4	90.2	38.8	7.6	0.4
1999	1,894.0	60.0	0.8	42.2	23.3	70.2	98.4	106.7	86.2	37.0	7.1	0.4
1998	1,887.5	60.0	0.8	44.0	25.2	72.4	98.9	105.8	84.4	36.2	7.0	0.4
1997	1,853.0	59.3	0.9	45.0	26.7	73.7	97.4	103.5	82.0	34.8	6.7	0.3
1996	1,852.0	59.6	1.0	47.0	28.4	75.8	97.3	103.6	80.8	33.9	6.5	0.3
1995	1,856.5	60.2	1.1	49.3	30.5	78.6	97.4	104.1	79.9	33.0	6.2	0.3
1994	1,883.5	61.6	1.2	51.7	32.3	81.4	99.5	106.5	79.1	32.4	6.0	0.3
1993	1,901.5	62.7	1.2	52.7	32.9	82.3	101.7	108.7	78.4	31.6	5.7	0.3
1992 <sup>3</sup>	1,929.0	64.2	1.2	54.3	33.2	85.3	104.3	111.4	77.9	31.1	5.4	0.2
1991 <sup>3</sup>	1,953.0	65.2	1.3	56.1	34.4	86.1	106.5	113.1	77.5	30.8	5.1	0.2
1990 <sup>4</sup>	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 <sup>5</sup>	1,921.0	65.7	1.3	53.4	---	---	107.8	113.4	74.7	28.6	4.8	0.2
White												
2003	1,856.5	58.5	0.2	27.4	12.4	50.0	83.5	110.8	97.6	43.2	8.1	0.5
2002	1,828.5	57.4	0.2	28.5	13.1	51.9	84.3	109.3	94.4	40.9	7.6	0.5
2001	1,843.0	57.7	0.3	30.3	14.0	54.8	87.1	108.9	94.3	39.8	7.5	0.4
2000	1,866.0	58.5	0.3	32.6	15.8	57.5	91.2	109.4	93.2	38.8	7.3	0.4
1999	1,838.5	57.7	0.3	34.1	17.1	59.4	90.6	108.6	89.5	37.3	6.9	0.4
1998	1,825.0	57.6	0.3	35.3	18.3	60.9	91.2	107.4	87.2	36.4	6.8	0.4
1997	1,785.5	56.8	0.4	36.0	19.3	62.1	90.0	104.8	84.3	34.8	6.5	0.3
1996	1,781.0	57.1	0.4	37.6	20.6	64.0	90.1	104.9	82.8	33.9	6.2	0.3
1995	1,777.5	57.5	0.4	39.3	22.0	66.2	90.2	105.1	81.5	32.8	5.9	0.3
1994	1,782.5	58.2	0.5	40.4	22.7	67.6	90.9	106.6	80.2	32.0	5.7	0.2
1993	1,786.0	58.9	0.5	40.7	22.7	67.7	92.2	108.2	79.0	31.0	5.4	0.2
1992 <sup>3</sup>	1,803.5	60.0	0.5	41.7	22.7	69.8	93.9	110.6	78.3	30.4	5.1	0.2
1991 <sup>3</sup>	1,822.5	60.9	0.5	43.4	23.6	70.6	95.7	112.1	77.7	30.2	4.7	0.2
1990 <sup>4</sup>	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 <sup>5</sup>	1,770.0	60.5	0.4	39.9	---	---	94.7	111.7	75.0	27.8	4.3	0.2
Black												
2003	2,027.5	67.1	1.6	64.7	38.7	105.3	128.1	102.1	67.4	33.4	7.7	0.5
2002	2,047.0	67.4	1.9	68.3	41.0	110.3	131.0	102.1	66.1	32.1	7.5	0.4
2001	2,104.5	69.1	2.1	73.5	44.9	116.7	137.2	102.1	66.2	32.1	7.3	0.4
2000	2,178.5	71.4	2.4	79.2	50.1	121.9	145.4	102.8	66.5	31.8	7.2	0.4
1999	2,134.0	69.9	2.6	81.0	51.7	123.9	142.1	99.8	63.9	30.6	6.5	0.3
1998	2,164.0	70.9	2.9	85.7	56.8	128.2	142.5	99.9	64.4	30.4	6.7	0.3
1997	2,137.5	70.3	3.2	88.3	60.7	131.0	138.8	97.2	63.6	29.6	6.5	0.3
1996	2,140.0	70.7	3.6	91.9	64.8	134.1	137.0	96.7	63.2	29.1	6.2	0.3
1995	2,186.5	72.8	4.2	97.2	70.4	139.2	137.8	98.5	64.4	28.8	6.1	0.3
1994	2,314.5	77.5	4.6	105.7	77.0	150.4	146.8	104.1	66.3	29.1	6.0	0.3
1993	2,412.5	81.5	4.6	110.5	81.1	154.6	154.5	109.2	68.1	29.4	5.9	0.3
1992 <sup>3</sup>	2,482.5	84.5	4.8	114.7	82.9	161.1	160.8	112.8	68.4	29.1	5.7	0.2
1991 <sup>3</sup>	2,532.0	87.0	4.9	118.2	86.1	162.2	164.8	115.1	68.9	28.7	5.6	0.2
1990 <sup>4</sup>	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 <sup>5</sup>	2,424.0	84.8	5.2	111.9	---	---	156.3	113.8	65.7	26.3	5.3	0.3

--- Data not available.

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or, for the Hispanic subgroups, fewer than 50 women for 1990 and 2000 and 75,000 women for all other years in the denominator; see "Technical Notes." These guidelines for denominator size follow the suggestions of the U.S. Census Bureau.

0.0 Quantity more than zero but less than 0.05. <sup>1</sup>Fertility rates computed by relating total births, regardless of age of mother, to women 15–44 years.

<sup>2</sup>Beginning in 1997, rates computed by relating births to women aged 45–54 years to women aged 45–49 years. <sup>3</sup>Excludes data for New Hampshire, which did not report Hispanic origin.

<sup>4</sup>Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin. <sup>5</sup>Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

<sup>6</sup>Includes Central and South American and other and unknown Hispanic. <sup>7</sup>Includes origin not stated. <sup>8</sup>Includes races other than white and black.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

[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. Populations estimated as of July 1]

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 <sup>1</sup> . . . . .	4,089,950	14.1	66.1	2,042.5	41.6	22.4	70.7
Alabama . . . . .	59,552	13.2	62.5	1,918.0	52.4	28.9	87.1
Alaska . . . . .	10,086	15.5	72.5	2,374.5	38.6	19.3	68.2
Arizona . . . . .	90,967	16.3	79.2	2,385.0	61.1	35.5	102.0
Arkansas . . . . .	37,784	13.9	67.4	2,055.0	59.0	30.5	101.1
California . . . . .	540,997	15.2	69.9	2,131.5	40.1	21.8	68.1
Colorado . . . . .	69,339	15.2	69.5	2,119.5	43.9	24.9	73.2
Connecticut . . . . .	42,873	12.3	59.6	1,915.5	24.8	12.9	43.6
Delaware . . . . .	11,329	13.9	64.6	2,009.5	44.9	23.7	77.7
District of Columbia . . . . .	7,619	13.5	53.9	1,593.5	60.3	39.4	84.9
Florida . . . . .	212,250	12.5	63.4	2,005.0	42.5	22.2	74.2
Georgia . . . . .	135,979	15.7	69.3	2,121.5	53.5	29.0	91.3
Hawaii . . . . .	18,100	14.4	72.2	2,242.5	37.3	18.7	63.9
Idaho . . . . .	21,800	16.0	76.0	2,319.0	39.3	17.4	70.7
Illinois . . . . .	182,495	14.4	67.0	2,052.5	40.4	22.9	66.6
Indiana . . . . .	86,434	14.0	66.4	2,054.0	43.5	21.6	77.2
Iowa . . . . .	38,174	13.0	63.3	1,986.5	31.9	15.2	55.5
Kansas . . . . .	39,476	14.5	69.5	2,152.0	41.2	20.2	71.3
Kentucky . . . . .	55,236	13.4	63.1	1,951.5	49.6	24.7	86.5
Louisiana . . . . .	65,040	14.5	66.1	2,001.5	56.0	30.1	92.9
Maine . . . . .	13,855	10.6	52.0	1,746.0	24.9	12.4	43.6
Maryland . . . . .	74,930	13.6	62.4	1,977.5	33.3	18.2	56.9
Massachusetts . . . . .	80,184	12.5	57.2	1,735.5	23.0	12.0	39.9
Michigan . . . . .	131,094	13.0	61.7	1,939.0	34.4	18.2	59.3
Minnesota . . . . .	70,050	13.8	64.1	2,024.5	26.6	13.4	46.0
Mississippi . . . . .	42,380	14.7	67.9	2,030.0	62.5	35.3	101.9
Missouri . . . . .	77,045	13.5	64.1	1,994.0	43.2	21.5	75.4
Montana . . . . .	11,422	12.4	62.6	2,029.0	35.0	16.5	61.4
Nebraska . . . . .	25,917	14.9	71.4	2,209.0	36.0	18.5	61.0
Nevada . . . . .	33,647	15.0	72.2	2,208.0	53.0	29.1	91.2
New Hampshire . . . . .	14,393	11.2	52.7	1,771.5	18.2	7.1	35.9
New Jersey . . . . .	116,983	13.5	64.9	2,051.0	25.5	13.8	44.1
New Mexico . . . . .	27,821	14.8	71.4	2,200.5	62.7	37.4	100.5
New York . . . . .	253,714	13.2	61.0	1,866.0	28.2	14.9	48.1
North Carolina . . . . .	118,323	14.1	65.8	2,018.0	49.0	26.6	84.4
North Dakota . . . . .	7,972	12.6	61.6	1,933.5	26.8	12.1	46.6
Ohio . . . . .	149,679	13.1	62.7	1,964.0	39.4	20.2	68.1
Oklahoma . . . . .	50,981	14.5	69.9	2,110.5	55.9	28.8	94.8
Oregon . . . . .	45,953	12.9	62.5	1,901.5	34.4	17.1	60.4
Pennsylvania . . . . .	145,959	11.8	58.1	1,855.0	31.2	17.5	52.3
Rhode Island . . . . .	13,209	12.3	56.6	1,763.0	31.3	18.8	50.1
South Carolina . . . . .	55,649	13.4	62.9	1,929.5	51.5	28.7	86.2
South Dakota . . . . .	11,027	14.4	70.8	2,241.5	34.7	17.5	59.4
Tennessee . . . . .	78,890	13.5	63.1	1,950.5	53.5	28.2	91.1
Texas . . . . .	377,476	17.1	77.5	2,346.5	62.9	37.2	102.1
Utah . . . . .	49,860	21.2	92.2	2,566.5	34.6	16.4	60.7
Vermont . . . . .	6,589	10.6	51.1	1,683.0	18.9	6.7	37.1
Virginia . . . . .	101,254	13.7	63.3	1,973.5	36.1	17.4	64.6
Washington . . . . .	80,489	13.1	61.2	1,899.5	31.5	15.5	55.5
West Virginia . . . . .	20,935	11.6	58.1	1,798.5	44.8	21.1	79.7
Wisconsin . . . . .	70,040	12.8	60.7	1,943.0	31.3	15.7	54.5
Wyoming . . . . .	6,700	13.4	65.6	2,058.5	40.8	19.3	71.1
Puerto Rico . . . . .	50,696	13.1	59.4	1,756.5	59.5	41.0	87.2
Virgin Islands . . . . .	1,522	14.0	66.8	2,157.0	50.9	25.2	106.1
Guam . . . . .	3,281	20.1	89.4	2,678.5	64.3	36.4	109.5
American Samoa . . . . .	1,608	27.8	124.7	3,852.0	40.4	15.8	87.6
Northern Marianas . . . . .	1,349	17.7	45.1	1,290.5	42.3	33.1	53.5

<sup>1</sup>Excludes data for the territories.

**Table 11. Live births by race of mother: United States, each State and territory, 2003**

[By place of residence]

State	Number				
	All races	White	Black	American Indian <sup>1</sup>	Asian or Pacific Islander
United States <sup>2</sup> . . . . .	4,089,950	3,225,848	599,847	43,052	221,203
Alabama . . . . .	59,552	40,868	17,931	146	607
Alaska . . . . .	10,086	6,493	404	2,477	712
Arizona . . . . .	90,967	78,940	3,261	6,068	2,698
Arkansas . . . . .	37,784	29,750	7,236	259	539
California . . . . .	540,997	438,374	32,349	2,916	67,358
Colorado . . . . .	69,339	63,166	2,937	564	2,672
Connecticut . . . . .	42,873	35,388	5,187	262	2,036
Delaware . . . . .	11,329	7,941	2,907	32	449
District of Columbia . . . . .	7,619	2,108	5,250	5	256
Florida . . . . .	212,250	158,026	47,341	1,088	5,795
Georgia . . . . .	135,979	88,125	43,099	319	4,436
Hawaii . . . . .	18,100	5,086	583	71	12,360
Idaho . . . . .	21,800	20,974	106	369	351
Illinois . . . . .	182,495	141,820	31,565	260	8,850
Indiana . . . . .	86,434	75,541	9,375	136	1,382
Iowa . . . . .	38,174	35,688	1,287	260	939
Kansas . . . . .	39,476	35,007	2,763	480	1,226
Kentucky . . . . .	55,236	49,416	4,851	101	868
Louisiana . . . . .	65,040	37,312	26,224	403	1,101
Maine . . . . .	13,855	13,365	183	99	208
Maryland . . . . .	74,930	44,704	25,515	188	4,523
Massachusetts . . . . .	80,184	66,009	8,596	184	5,395
Michigan . . . . .	131,094	103,166	22,567	639	4,722
Minnesota . . . . .	70,050	59,404	5,362	1,416	3,868
Mississippi . . . . .	42,380	23,251	18,553	284	292
Missouri . . . . .	77,045	63,816	11,166	366	1,697
Montana . . . . .	11,422	9,848	50	1,400	124
Nebraska . . . . .	25,917	23,376	1,468	470	603
Nevada . . . . .	33,647	27,700	2,900	520	2,527
New Hampshire . . . . .	14,393	13,646	243	35	469
New Jersey . . . . .	116,983	85,858	20,200	188	10,737
New Mexico . . . . .	27,821	23,284	532	3,603	402
New York . . . . .	253,714	183,829	48,025	637	21,223
North Carolina . . . . .	118,323	86,407	27,171	1,637	3,108
North Dakota . . . . .	7,972	6,890	109	858	115
Ohio . . . . .	149,679	123,617	22,678	298	3,086
Oklahoma . . . . .	50,981	39,959	4,625	5,320	1,077
Oregon . . . . .	45,953	41,574	1,018	867	2,494
Pennsylvania . . . . .	145,959	118,394	22,056	333	5,176
Rhode Island . . . . .	13,209	11,225	1,258	163	563
South Carolina . . . . .	55,649	36,270	18,334	152	893
South Dakota . . . . .	11,027	8,903	122	1,875	127
Tennessee . . . . .	78,890	60,972	16,249	180	1,489
Texas . . . . .	377,476	321,542	41,885	902	13,147
Utah . . . . .	49,860	47,328	383	617	1,532
Vermont . . . . .	6,589	6,411	53	7	118
Virginia . . . . .	101,254	71,918	22,607	178	6,551
Washington . . . . .	80,489	66,581	4,015	2,051	7,842
West Virginia . . . . .	20,935	20,043	721	25	146
Wisconsin . . . . .	70,040	60,244	6,494	1,054	2,248
Wyoming . . . . .	6,700	6,291	53	290	66
Puerto Rico . . . . .	50,696	46,067	4,605	---	---
Virgin Islands . . . . .	1,522	351	1,147	2	22
Guam . . . . .	3,281	276	39	5	2,961
American Samoa . . . . .	1,608	2	—	—	1,606
Northern Marianas . . . . .	1,349	13	—	—	1,336

--- Data not available. — Quantity zero.

<sup>1</sup>Includes births to Aleuts and Eskimos.<sup>2</sup>Excludes data for the territories.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. California, Hawaii, Ohio (for December), Pennsylvania, Utah, and Washington reported multiple-race data in 2003. The multiple-race data for these States were bridged to the single-race categories of the 1977 Office of Management and Budget standards for comparability with other States; see "Technical Notes." 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, 2003**

[By place of residence]

State	All origins	Origin of mother									
		Total	Hispanic				Non-Hispanic				Not stated
			Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>1</sup>	White	Black	
United States <sup>2</sup>	4,089,950	912,329	654,504	58,400	14,867	135,586	48,972	3,149,034	2,321,904	576,033	28,587
Alabama	59,552	2,904	2,163	82	20	231	408	56,603	37,996	17,887	45
Alaska	10,086	770	286	61	12	80	331	7,546	4,917	264	1,770
Arizona	90,967	39,780	37,398	276	63	788	1,255	49,547	39,222	2,636	1,640
Arkansas	37,784	3,278	2,752	35	5	444	42	34,425	26,480	7,190	81
California	540,997	269,705	235,975	1,975	729	25,577	5,449	265,467	166,764	30,925	5,825
Colorado	69,339	21,387	17,003	272	71	796	3,245	47,942	42,348	2,807	10
Connecticut	42,873	7,547	897	4,261	94	2,034	261	35,096	28,047	4,812	230
Delaware	11,329	1,380	791	309	5	271	4	9,907	6,584	2,848	42
District of Columbia	7,619	962	101	12	3	803	43	6,641	1,844	4,570	16
Florida	212,250	54,857	13,355	9,514	10,558	20,187	1,243	157,083	104,289	46,295	310
Georgia	135,979	18,262	14,372	586	137	3,057	110	115,449	68,900	42,038	2,268
Hawaii	18,100	2,617	503	760	12	88	1,254	15,453	4,275	483	30
Idaho	21,800	2,939	2,349	26	4	65	495	18,714	17,923	103	147
Illinois	182,495	42,460	35,891	2,701	192	1,864	1,812	139,935	99,565	31,303	100
Indiana	86,434	6,779	5,861	298	23	465	132	79,301	68,511	9,327	354
Iowa	38,174	2,519	2,012	60	3	361	83	35,588	33,185	1,264	67
Kansas	39,476	5,442	4,489	102	18	319	514	33,612	29,230	2,725	422
Kentucky	55,236	1,959	1,465	104	91	259	40	53,234	47,568	4,812	43
Louisiana	65,040	1,675	673	95	84	160	663	63,315	35,726	26,140	50
Maine	13,855	166	29	30	4	38	65	13,630	13,153	176	59
Maryland	74,930	6,976	1,599	375	63	4,543	396	67,883	39,234	24,125	71
Massachusetts	80,184	9,800	499	4,334	78	4,708	181	69,975	57,884	6,579	409
Michigan	131,094	7,670	6,221	382	91	499	477	120,886	93,630	22,312	2,538
Minnesota	70,050	4,932	3,684	100	29	717	402	64,472	54,074	5,251	646
Mississippi	42,380	543	252	16	3	59	213	41,780	22,664	18,542	57
Missouri	77,045	3,483	2,631	117	41	390	304	73,490	60,488	11,012	72
Montana	11,422	379	174	10	7	22	166	10,851	9,299	49	192
Nebraska	25,917	3,453	2,693	28	15	528	189	21,884	19,404	1,444	580
Nevada	33,647	12,198	10,172	247	203	1,197	379	21,151	15,612	2,752	298
New Hampshire	14,393	528	133	130	16	181	68	13,261	12,590	173	604
New Jersey	116,983	26,534	5,300	6,758	739	13,537	200	90,251	61,911	17,601	198
New Mexico	27,821	14,843	7,220	70	42	108	7,403	12,968	8,606	476	10
New York	253,714	55,281	9,366	12,512	405	24,529	8,469	197,562	132,088	43,796	871
North Carolina	118,323	16,080	12,222	670	128	2,932	128	102,155	70,473	26,983	88
North Dakota	7,972	168	97	9	-	13	49	7,637	6,571	106	167
Ohio	149,679	5,352	2,985	1,250	54	659	404	143,952	118,304	22,326	375
Oklahoma	50,981	5,733	5,229	124	18	276	86	45,152	34,349	4,556	96
Oregon	45,953	8,439	7,827	82	35	327	168	37,219	33,074	977	295
Pennsylvania	145,959	10,832	2,374	5,703	159	1,575	1,021	133,218	109,259	18,974	1,909
Rhode Island	13,209	2,483	186	706	18	1,516	57	9,023	7,251	1,117	1,703
South Carolina	55,649	3,662	2,636	194	22	619	191	51,924	32,677	18,250	63
South Dakota	11,027	340	207	20	2	85	26	10,677	8,616	116	10
Tennessee	78,890	4,934	3,711	199	61	816	147	73,931	56,119	16,170	25
Texas	377,476	183,139	164,422	1,090	324	10,238	7,065	193,266	138,194	41,252	1,071
Utah	49,860	7,069	5,224	113	15	724	993	42,571	40,154	341	220
Vermont	6,589	59	24	13	2	9	11	6,486	6,311	52	44
Virginia	101,254	10,401	2,967	675	77	5,960	722	90,667	62,347	21,838	186
Washington	80,489	13,320	11,024	282	52	608	1,354	65,008	53,848	3,072	2,161
West Virginia	20,935	104	39	15	2	16	32	20,747	19,874	713	84
Wisconsin	70,040	5,539	4,428	606	38	294	173	64,487	54,845	6,421	14
Wyoming	6,700	667	593	11	-	14	49	6,012	5,627	52	21
Puerto Rico	50,696	---	---	---	---	---	---	---	---	---	50,696
Virgin Islands	1,522	344	1	79	-	50	214	1,038	104	914	140
Guam	3,281	54	27	11	1	7	8	3,150	241	35	77
American Samoa	1,608	---	---	---	---	---	---	---	---	---	1,608
Northern Marianas	1,349	---	---	---	---	---	---	---	---	---	1,349

- Quantity zero. --- Data not available.

<sup>1</sup>Includes races other than white and black.<sup>2</sup>Excludes data for the territories.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. California, Hawaii, Ohio (for December), Pennsylvania, Utah, and Washington reported multiple-race data in 2003. The multiple-race data for these States were bridged to the single-race categories of the 1977 Office of Management and Budget standards for comparability with other States; see "Technical Notes." 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 percentage of births with selected demographic characteristics, by race of mother and place of birth of mother: United States, 2003**

[Birth rates are live births per 1,000 population. Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15–44 years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Populations estimated as of July 1]

Characteristic	All races	White	Black	American Indian <sup>1</sup>	Asian or Pacific Islander
			Number		
Births . . . . .	4,089,950	3,225,848	599,847	43,052	221,203
			Rate		
Birth rate . . . . .	14.1	13.6	15.7	13.8	16.8
Fertility rate . . . . .	66.1	66.1	66.3	58.4	66.3
Total fertility rate . . . . .	2,042.5	2,061.0	1,999.0	1,731.5	1,873.0
Sex ratio <sup>2</sup> . . . . .	1,049	1,050	1,036	1,047	1,067
			Percent		
All births					
Births to mothers under 20 years . . . . .	10.3	9.4	17.3	18.2	3.5
4th- and higher-order births . . . . .	10.8	10.1	15.2	19.0	6.4
Births to unmarried mothers . . . . .	34.6	29.4	68.2	61.3	15.0
Mothers completing 12 years or more of school <sup>3</sup> . . . . .	78.4	78.2	76.0	69.5	90.1
Mothers born in the 50 States and DC . . . . .	76.3	78.3	86.0	94.4	17.0
Mothers born in the 50 States and DC					
Births to mothers under 20 years . . . . .	11.2	9.4	19.2	18.8	11.5
4th- and higher-order births . . . . .	10.3	9.2	15.5	19.3	7.6
Births to unmarried mothers . . . . .	35.4	27.5	72.4	62.9	31.6
Mothers completing 12 years or more of school <sup>3</sup> . . . . .	83.8	85.8	75.0	69.9	89.9
Mothers born outside the 50 States and DC					
Births to mothers under 20 years . . . . .	7.5	9.2	5.2	8.8	1.8
4th- and higher-order births . . . . .	12.2	13.6	13.2	13.2	6.1
Births to unmarried mothers . . . . .	31.9	36.0	41.9	34.4	11.6
Mothers completing 12 years or more of school <sup>3</sup> . . . . .	61.2	51.3	82.3	62.8	90.2

<sup>1</sup>Includes births to Aleuts and Eskimos.

<sup>2</sup>Male live births per 1,000 female live births.

<sup>3</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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 percentage 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, 2003**

[Birth rates are live births per 1,000 population. Fertility rates are computed by relating total births, regardless of age of mother, to women aged 15–44 years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Populations estimated as of July 1]

Characteristic	Hispanic							Non-Hispanic		
	All origins <sup>1</sup>	Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	White	Black
	Number									
Births . . . . .	4,089,950	912,329	654,504	58,400	14,867	135,586	48,972	3,149,034	2,321,904	576,033
	Rate									
Birth rate <sup>3</sup> . . . . .	14.1	22.9	24.7	15.1	9.9	23.0	( <sup>3</sup> )	12.7	11.8	15.9
Fertility rate <sup>3</sup> . . . . .	66.1	96.9	105.5	61.6	61.7	91.2	( <sup>3</sup> )	60.5	58.5	67.1
Total fertility rate <sup>3</sup> . . . . .	2,042.5	2,785.5	2,957.5	1,841.0	2,059.5	2,733.0	( <sup>3</sup> )	1,897.5	1,856.5	2,027.5
Sex ratio <sup>4</sup> . . . . .	1,049	1,041	1,040	1,043	1,035	1,044	1,036	1,051	1,053	1,036
	Percent									
All births										
Births to mothers under 20 years . . . . .	10.3	14.3	15.3	17.9	7.9	8.3	15.9	9.1	7.5	17.4
4th- and higher-order births . . . . .	10.8	13.7	14.8	12.2	4.8	10.4	11.8	9.9	8.8	15.3
Births to unmarried mothers . . . . .	34.6	45.0	43.7	59.8	31.4	46.0	46.7	31.6	23.6	68.5
Mothers completing 12 years or more of school <sup>5</sup> . . . . .	78.4	52.5	46.4	70.1	88.5	64.7	69.9	86.1	88.5	76.2
Mothers born in the 50 States and DC . . . . .	76.3	36.7	36.2	66.6	47.2	12.1	73.0	87.8	94.2	87.6
Mothers born in the 50 States and DC										
Births to mothers under 20 years . . . . .	11.2	20.6	21.4	19.5	11.8	18.8	18.8	10.0	7.8	19.2
4th- and higher-order births . . . . .	10.3	12.1	12.8	11.6	5.2	5.3	11.8	10.1	8.7	15.5
Births to unmarried mothers . . . . .	35.4	49.6	48.3	62.1	30.1	47.1	49.0	33.7	24.3	72.6
Mothers completing 12 years or more of school <sup>5</sup> . . . . .	83.8	69.3	67.4	70.0	86.9	81.2	73.0	85.7	88.4	75.0
Mothers born outside the 50 States and DC										
Births to mothers under 20 years . . . . .	7.5	10.7	11.8	14.4	4.4	6.9	7.6	2.6	2.9	4.5
4th- and higher-order births . . . . .	12.2	14.6	15.9	13.3	4.4	11.1	11.8	8.6	9.4	13.5
Births to unmarried mothers . . . . .	31.9	42.3	41.0	55.0	32.5	45.9	39.2	16.4	11.2	39.5
Mothers completing 12 years or more of school <sup>5</sup> . . . . .	61.2	42.6	34.3	70.3	89.8	62.4	61.1	89.7	90.9	85.4

<sup>1</sup>Includes origin not stated.

<sup>2</sup>Includes races other than white and black.

<sup>3</sup>Rates for Central and South American include other and unknown Hispanic.<sup>4</sup>Male live births per 1,000 female live births.

<sup>5</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

[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. Monthly populations estimated as of the first of each month]

Month	Number			Observed		Seasonally adjusted <sup>1</sup>	
	All races <sup>2</sup>	White	Black	Birth rate	Fertility rate	Birth rate	Fertility rate
Total . . . . .	4,089,950	3,225,848	599,847	14.1	66.1	...	...
January . . . . .	329,803	257,667	50,803	13.4	62.5	14.7	66.0
February . . . . .	307,248	241,252	46,156	13.8	64.5	14.7	66.0
March . . . . .	336,920	266,258	48,714	13.7	63.8	14.7	66.1
April . . . . .	330,106	262,671	46,252	13.8	64.6	14.6	65.6
May . . . . .	346,754	276,206	47,990	14.0	65.7	14.6	66.0
June . . . . .	337,425	267,731	48,114	14.1	66.0	14.6	65.9
July . . . . .	364,226	288,949	52,553	14.7	68.9	14.6	65.7
August . . . . .	360,103	283,960	53,094	14.5	68.1	14.6	66.0
September . . . . .	359,644	284,332	52,494	15.0	70.3	14.6	66.0
October . . . . .	354,048	279,270	51,704	14.3	66.9	14.6	66.0
November . . . . .	320,094	249,416	49,197	13.3	62.5	14.7	66.4
December . . . . .	343,579	268,136	52,776	13.8	64.9	14.5	65.6

... Category not applicable.

<sup>1</sup>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).

<sup>2</sup>Includes races other than white and black.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

Day of week and race of mother	Average number of births	Index of occurrence <sup>1</sup>				
		Total <sup>2</sup>	Vaginal	Method of delivery		
				Total	Cesarean Primary	Repeat
All races <sup>3</sup>	11,205	100.0	100.0	100.0	100.0	100.0
Sunday	7,563	67.5	74.7	49.0	59.5	32.5
Monday	11,733	104.7	101.7	112.4	101.7	129.4
Tuesday	13,001	116.0	113.2	123.4	120.2	128.5
Wednesday	12,598	112.4	110.3	117.9	116.4	120.2
Thursday	12,514	111.7	109.7	116.8	114.8	120.0
Friday	12,396	110.6	106.5	121.2	114.9	131.0
Saturday	8,605	76.8	83.7	59.0	72.3	38.0
White	8,838	100.0	100.0	100.0	100.0	100.0
Sunday	5,818	65.8	73.0	47.1	57.7	30.7
Monday	9,326	105.5	102.4	113.6	102.6	130.6
Tuesday	10,320	116.8	113.9	124.2	121.1	128.8
Wednesday	9,995	113.1	111.0	118.5	117.3	120.3
Thursday	9,918	112.2	110.3	117.2	115.1	120.4
Friday	9,834	111.3	106.9	122.5	115.7	133.0
Saturday	6,634	75.1	82.2	56.6	70.1	35.9
Black	1,643	100.0	100.0	100.0	100.0	100.0
Sunday	1,189	72.4	79.6	55.1	65.0	39.1
Monday	1,676	102.0	99.1	108.6	98.3	125.5
Tuesday	1,878	114.3	111.4	121.2	117.4	127.3
Wednesday	1,821	110.8	108.5	116.2	113.6	120.4
Thursday	1,808	110.0	107.7	115.5	113.6	118.6
Friday	1,773	107.9	104.5	116.1	112.1	122.5
Saturday	1,356	82.5	89.0	67.0	79.8	46.1

<sup>1</sup>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.

<sup>2</sup>Includes method of delivery not stated.

<sup>3</sup>Includes races other than white and black.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. In this table all women (including Hispanic women) are classified only according to their race; see "Technical Notes."

**Table 17. Number, birth rate, and percentage of births to unmarried women, by age, race, and Hispanic origin of mother: United States, 2003**

Measure and age of mother	All races <sup>1</sup>	White		Black		American Indian <sup>2,3</sup>	Asian or Pacific Islander <sup>2</sup>	Hispanic <sup>4</sup>
		Total <sup>2</sup>	Non-Hispanic	Total <sup>2</sup>	Non-Hispanic			
Number								
All ages . . . . .	1,415,995	947,012	546,991	409,333	394,831	26,401	33,249	410,620
Under 15 years . . . . .	6,469	3,499	1,353	2,715	2,633	152	103	2,224
15–19 years . . . . .	337,201	227,879	132,482	97,000	93,918	6,778	5,544	97,925
15 years . . . . .	17,331	10,647	4,627	6,020	5,820	398	266	6,226
16 years . . . . .	37,666	24,727	11,980	11,535	11,150	778	626	13,105
17 years . . . . .	65,574	44,380	24,454	18,823	18,154	1,365	1,006	20,473
18 years . . . . .	96,105	65,850	39,516	26,831	26,028	1,849	1,575	26,946
19 years . . . . .	120,525	82,275	51,905	33,791	32,766	2,388	2,071	31,175
20–24 years . . . . .	549,353	367,924	224,941	160,312	155,153	10,002	11,115	146,729
25–29 years . . . . .	287,205	190,605	101,454	83,421	80,087	5,293	7,886	91,644
30–34 years . . . . .	147,555	97,957	52,167	41,692	39,926	2,668	5,238	46,995
35–39 years . . . . .	69,071	46,038	26,352	19,260	18,400	1,193	2,580	20,158
40 years and over . . . . .	19,141	13,110	8,242	4,933	4,714	315	783	4,945
Rate per 1,000 in specified group								
15–44 years <sup>5</sup> . . . . .	44.9	40.4	28.6	66.3	---	---	22.2	92.2
15–19 years . . . . .	34.8	30.1	21.5	62.2	---	---	13.1	66.6
15–17 years . . . . .	20.3	17.2	11.0	38.1	---	---	7.5	43.0
18–19 years . . . . .	57.6	50.4	37.9	100.4	---	---	21.4	107.0
20–24 years . . . . .	71.2	63.0	47.2	118.0	---	---	26.6	133.7
25–29 years . . . . .	65.7	60.8	40.8	90.4	---	---	30.7	136.0
30–34 years . . . . .	44.0	42.0	27.8	51.2	---	---	31.5	99.2
35–39 years . . . . .	22.3	21.2	14.7	25.3	---	---	19.8	54.7
40–44 years <sup>6</sup> . . . . .	5.8	5.5	4.1	6.5	---	---	7.9	13.3
Percent of births								
All ages . . . . .	34.6	29.4	23.6	68.2	68.5	61.3	15.0	45.0
Under 15 years . . . . .	97.1	95.2	96.7	99.6	99.7	98.7	99.0	94.4
15–19 years . . . . .	81.3	76.4	76.7	96.1	96.3	88.1	73.0	76.2
15 years . . . . .	95.0	92.7	94.9	99.4	99.5	96.8	92.7	91.3
16 years . . . . .	91.1	87.8	89.6	99.0	99.1	95.5	86.5	86.5
17 years . . . . .	87.7	83.8	85.7	98.3	98.5	94.2	79.4	81.9
18 years . . . . .	81.6	76.8	78.3	96.5	96.7	87.4	75.6	75.0
19 years . . . . .	74.2	68.5	68.9	93.1	93.4	82.3	64.1	68.3
20–24 years . . . . .	53.2	46.5	43.1	81.7	82.1	68.3	36.5	53.7
25–29 years . . . . .	26.4	21.9	16.2	59.6	59.8	50.3	12.2	37.2
30–34 years . . . . .	15.1	12.3	8.3	42.7	42.8	41.5	6.9	27.8
35–39 years . . . . .	14.8	12.1	8.7	38.6	38.6	41.1	7.4	26.6
40 years and over . . . . .	17.9	15.3	12.0	39.3	39.2	44.4	10.0	29.2

--- Data not available.

<sup>1</sup>Includes races other than white and black and origin not stated.<sup>2</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>3</sup>Includes births to Aleuts and Eskimos.<sup>4</sup>Includes all persons of Hispanic origin of any race.<sup>5</sup>Birth rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15–44 years.<sup>6</sup>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 in the birth registration process; for Michigan and New York, mother's marital status is inferred; see "Technical Notes." Rates cannot be computed for unmarried non-Hispanic black women or for American Indian women because the necessary populations are not available.

**Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980–2003, and by age, race, and Hispanic origin of mother: United States, 1980–2003**

[Rates are live births to unmarried women per 1,000 unmarried women. Populations estimated as of July 1 for all years]

Year and race and Hispanic origin	Age of mother								
	15–44 years <sup>1</sup>	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years <sup>2</sup>
		Total	15–17 years	18–19 years					
<b>All races<sup>3</sup></b>									
2003 <sup>4</sup>	44.9	34.8	20.3	57.6	71.2	65.7	44.0	22.3	5.8
2002 <sup>4</sup>	43.7	35.4	20.8	58.6	70.5	61.5	40.8	20.8	5.4
2001 <sup>4</sup>	43.8	37.0	22.0	60.6	71.3	59.5	40.4	20.4	5.3
2000 <sup>4</sup>	44.1	39.0	23.9	62.2	72.2	58.5	39.3	19.7	5.0
1999 <sup>4</sup>	43.3	39.7	25.0	62.3	70.8	56.9	38.1	19.0	4.6
1998 <sup>4</sup>	43.3	40.9	26.5	63.6	70.4	55.4	38.1	18.7	4.6
1997 <sup>4</sup>	42.9	41.4	27.7	63.9	68.9	53.4	37.9	18.7	4.6
1996 <sup>4</sup>	43.8	42.2	28.5	64.9	68.9	54.5	40.2	19.9	4.8
1995 <sup>4</sup>	44.3	43.8	30.1	66.5	68.7	54.3	38.9	19.3	4.7
1994 <sup>4</sup>	46.2	45.8	31.7	69.1	70.9	57.4	39.6	19.7	4.7
1993 <sup>4</sup>	44.8	44.0	30.3	66.2	68.5	55.9	38.0	18.9	4.4
1992 <sup>4</sup>	44.9	44.2	30.2	66.7	67.9	55.6	37.6	18.8	4.1
1991 <sup>4</sup>	45.0	44.6	30.8	65.4	67.8	56.0	37.9	17.9	3.8
1990 <sup>4</sup>	43.8	42.5	29.6	60.7	65.1	56.0	37.6	17.3	3.6
1989 <sup>4</sup>	41.6	40.1	28.7	56.0	61.2	52.8	34.9	16.0	3.4
1988 <sup>4</sup>	38.5	36.4	26.4	51.5	56.0	48.5	32.0	15.0	3.2
1987 <sup>4</sup>	36.0	33.8	24.5	48.9	52.6	44.5	29.6	13.5	2.9
1986 <sup>4</sup>	34.2	32.3	22.8	48.0	49.3	42.2	27.2	12.2	2.7
1985 <sup>4</sup>	32.8	31.4	22.4	45.9	46.5	39.9	25.2	11.6	2.5
1984 <sup>4,5</sup>	31.0	30.0	21.9	42.5	43.0	37.1	23.3	10.9	2.5
1983 <sup>4,5</sup>	30.3	29.5	22.0	40.7	41.8	35.5	22.4	10.2	2.6
1982 <sup>4,5</sup>	30.0	28.7	21.5	39.6	41.5	35.1	21.9	10.0	2.7
1981 <sup>4,5</sup>	29.5	27.9	20.9	39.0	41.1	34.5	20.8	9.8	2.6
1980 <sup>4,5</sup>	29.4	27.6	20.6	39.0	40.9	34.0	21.1	9.7	2.6
1980 <sup>5,6</sup>	28.4	27.5	20.7	38.7	39.7	31.4	18.5	8.4	2.3
1975 <sup>5,6</sup>	24.5	23.9	19.3	32.5	31.2	27.5	17.9	9.1	2.6
1970 <sup>6,7</sup>	26.4	22.4	17.1	32.9	38.4	37.0	27.1	13.6	3.5
<b>White total</b>									
2003 <sup>4</sup>	40.4	30.1	17.2	50.4	63.0	60.8	42.0	21.2	5.5
2002 <sup>4</sup>	38.9	30.4	17.5	51.0	61.6	56.8	38.3	19.4	5.0
2001 <sup>4</sup>	38.5	31.3	18.1	52.1	61.8	54.6	37.2	18.6	4.9
2000 <sup>4</sup>	38.2	32.7	19.7	53.1	61.7	52.9	35.9	17.9	4.5
1999 <sup>4</sup>	37.4	33.2	20.6	52.9	60.2	50.8	34.9	17.4	4.1
1998 <sup>4</sup>	36.9	33.6	21.5	53.1	59.5	48.6	34.1	16.9	4.1
1997 <sup>4</sup>	36.3	33.6	22.0	52.9	57.9	47.0	33.6	16.6	3.9
1996 <sup>4</sup>	37.0	34.0	22.3	53.5	57.9	48.1	35.4	17.7	4.3
1995 <sup>4</sup>	37.0	35.0	23.3	54.7	57.2	47.4	33.7	16.8	4.2
1994 <sup>4</sup>	37.8	35.8	23.9	55.8	57.5	48.6	33.8	17.2	4.3
1993 <sup>4</sup>	35.6	33.3	21.9	52.0	53.8	46.0	31.9	16.3	3.9
1992 <sup>4</sup>	35.0	32.7	21.4	51.2	52.4	44.8	31.3	16.1	3.6
1991 <sup>4</sup>	34.5	32.7	21.7	49.4	51.4	44.3	30.9	15.2	3.2
1990 <sup>4</sup>	32.9	30.6	20.4	44.9	48.2	43.0	29.9	14.5	3.2
1989 <sup>4</sup>	30.2	28.0	19.3	40.2	43.8	39.1	26.8	13.1	2.9
1988 <sup>4</sup>	27.4	25.3	17.6	36.8	39.2	35.4	24.2	12.1	2.7
1987 <sup>4</sup>	25.3	23.2	16.2	34.5	36.6	32.0	22.3	10.7	2.4
1986 <sup>4</sup>	23.9	21.8	14.9	33.5	34.2	30.5	20.1	9.7	2.2
1985 <sup>4</sup>	22.5	20.8	14.5	31.2	31.7	28.5	18.4	9.0	2.0
1984 <sup>4,5</sup>	20.6	19.3	13.7	27.9	28.5	25.5	16.8	8.4	2.0
1983 <sup>4,5</sup>	19.8	18.7	13.6	26.4	27.1	23.8	15.9	7.8	2.0
1982 <sup>4,5</sup>	19.3	18.0	13.1	25.3	26.5	23.1	15.3	7.4	2.1
1981 <sup>4,5</sup>	18.6	17.2	12.6	24.6	25.8	22.3	14.2	7.2	1.9
1980 <sup>4,5</sup>	18.1	16.5	12.0	24.1	25.1	21.5	14.1	7.1	1.8

See footnotes at end of table.

**Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980–2003, and by age, race, and Hispanic origin of mother: United States, 1980–2003—Con.**

[Rates are live births to unmarried women per 1,000 unmarried women. Populations estimated as of July 1 for all years]

Year and race and Hispanic origin	Age of mother								
	15–44 years <sup>1</sup>	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years <sup>2</sup>
		Total	15–17 years	18–19 years					
<b>Non-Hispanic white</b>									
2003 <sup>4</sup>	28.6	21.5	11.0	37.9	47.2	40.8	27.8	14.7	4.1
2002 <sup>4</sup>	27.8	22.1	11.5	38.8	46.1	38.5	26.0	13.5	3.7
2001 <sup>4</sup>	27.8	23.1	12.1	40.3	46.4	37.5	25.4	13.2	3.6
2000 <sup>4</sup>	28.0	24.7	13.6	42.1	47.0	36.9	24.8	12.9	3.3
1999 <sup>4</sup>	27.9	25.6	14.6	42.7	46.3	36.2	24.8	13.0	3.1
1998 <sup>4</sup>	27.9	26.2	15.5	43.1	46.3	35.4	25.0	13.1	3.1
1997 <sup>4</sup>	27.5	26.4	16.2	43.3	44.8	34.4	24.9	12.7	2.9
1996 <sup>4</sup>	28.2	27.0	16.9	43.9	44.5	35.0	26.4	13.8	3.3
1995 <sup>4</sup>	28.1	27.7	17.6	44.6	43.9	34.4	25.1	12.9	3.2
1994 <sup>4</sup>	28.4	28.1	17.9	45.0	43.8	34.7	24.6	12.8	3.1
1993 <sup>4</sup>	---	---	---	---	---	---	---	---	---
1992 <sup>4</sup>	---	---	---	---	---	---	---	---	---
1991 <sup>4</sup>	---	---	---	---	---	---	---	---	---
1990 <sup>4,8</sup>	24.4	25.0	16.2	37.0	36.4	30.3	20.5	6.1	---
<b>Black total</b>									
2003 <sup>4</sup>	66.3	62.2	38.1	100.4	118.0	90.4	51.2	25.3	6.5
2002 <sup>4</sup>	66.2	64.8	39.9	104.1	119.2	85.9	49.9	24.9	6.3
2001 <sup>4</sup>	68.1	69.9	43.8	110.2	122.8	84.1	51.1	25.4	6.3
2000 <sup>4</sup>	70.5	75.0	48.3	115.0	129.0	85.9	50.2	25.4	6.3
1999 <sup>4</sup>	69.7	76.5	50.0	115.8	126.8	85.5	49.0	24.2	5.8
1998 <sup>4</sup>	71.6	81.5	55.0	121.5	127.8	86.5	50.5	24.3	6.0
1997 <sup>4</sup>	71.5	84.5	59.0	124.8	124.2	81.4	51.0	24.3	6.5
1996 <sup>4</sup>	72.8	87.5	62.6	127.2	122.6	81.2	53.4	25.2	6.1
1995 <sup>4</sup>	74.5	91.2	67.4	129.2	124.6	82.3	53.3	25.3	6.0
1994 <sup>4</sup>	80.8	99.3	73.9	139.6	135.2	91.3	56.5	26.0	5.9
1993 <sup>4</sup>	83.0	101.2	75.9	140.0	139.9	92.8	56.7	25.7	5.8
1992 <sup>4</sup>	85.7	104.8	77.2	146.4	142.6	96.8	57.3	25.6	5.4
1991 <sup>4</sup>	89.0	107.8	79.9	147.7	146.4	100.0	59.8	25.5	5.4
1990 <sup>4</sup>	90.5	106.0	78.8	143.7	144.8	105.3	61.5	25.5	5.1
1989 <sup>4</sup>	90.7	104.5	78.9	140.9	142.4	102.9	60.5	24.9	5.0
1988 <sup>4</sup>	86.5	96.1	73.5	130.5	133.6	97.2	57.4	24.1	5.0
1987 <sup>4</sup>	82.6	90.9	69.9	123.0	126.1	91.6	53.1	22.4	4.7
1986 <sup>4</sup>	79.0	88.5	67.0	121.1	118.0	84.6	50.0	20.6	4.4
1985 <sup>4</sup>	77.0	87.6	66.8	117.9	113.1	79.3	47.5	20.4	4.3
1984 <sup>4,5</sup>	75.2	86.1	66.5	113.6	107.9	77.8	43.8	19.4	4.3
1983 <sup>4,5</sup>	76.2	85.5	66.8	111.9	107.2	79.7	43.8	19.4	4.8
1982 <sup>4,5</sup>	77.9	85.1	66.3	112.7	109.3	82.7	44.1	19.5	5.2
1981 <sup>4,5</sup>	79.4	85.0	65.9	114.2	110.7	83.1	45.5	19.6	5.6
1980 <sup>4,5</sup>	81.1	87.9	68.8	118.2	112.3	81.4	46.7	19.0	5.5
<b>Asian or Pacific Islander total</b>									
2003 <sup>4</sup>	22.2	13.1	7.5	21.4	26.6	30.7	31.5	19.8	7.9
2002 <sup>4</sup>	21.3	13.4	7.5	22.2	26.5	27.5	28.6	18.7	6.8
2001 <sup>4</sup>	21.2	14.6	8.7	23.0	25.2	26.7	29.4	19.7	6.3
2000 <sup>4</sup>	20.9	15.2	9.6	23.2	24.2	25.4	29.7	18.4	6.9

See footnotes at end of table.

**Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980–2003, and by age, race, and Hispanic origin of mother: United States, 1980–2003—Con.**

[Rates are live births to unmarried women per 1,000 unmarried women. Populations estimated as of July 1 for all years]

Year and race and Hispanic origin	Age of mother								
	15–44 years <sup>1</sup>	15–19 years			20–24 years	25–29 years	30–34 years	35–39 years	40–44 years <sup>2</sup>
		Total	15–17 years	18–19 years					
Hispanic <sup>9</sup>									
2003 <sup>4</sup>	92.2	66.6	43.0	107.0	133.7	136.0	99.2	54.7	13.3
2002 <sup>4</sup>	87.9	66.1	43.0	105.3	131.4	123.1	88.1	51.3	12.6
2001 <sup>4</sup>	87.8	67.1	44.2	104.3	132.3	120.7	91.4	49.7	12.2
2000 <sup>4</sup>	87.3	68.5	47.0	102.2	130.5	121.6	89.4	46.1	12.2
1999 <sup>4</sup>	84.9	68.6	48.7	99.9	126.1	119.6	84.2	42.4	11.2
1998 <sup>4</sup>	82.8	69.3	49.8	101.2	120.6	115.9	78.2	38.8	12.0
1997 <sup>4</sup>	83.2	69.2	50.7	100.6	122.8	114.8	78.8	40.5	12.1
1996 <sup>4</sup>	86.2	69.3	49.7	102.3	131.6	122.0	84.6	41.2	12.3
1995 <sup>4</sup>	88.8	73.2	52.8	108.6	135.8	122.3	84.1	42.2	12.1
1994 <sup>4</sup>	95.8	77.7	55.7	115.4	144.5	131.7	91.2	47.4	13.9
1993 <sup>4</sup>	91.4	71.1	49.6	108.8	134.3	130.4	87.8	47.1	14.1
1992 <sup>4</sup>	92.8	70.3	49.2	106.6	138.2	133.4	89.9	47.8	14.6
1991 <sup>4</sup>	92.5	71.0	49.5	107.5	134.2	135.1	88.2	47.6	14.1
1990 <sup>4,8</sup>	89.6	65.9	45.9	98.9	129.8	131.7	88.1	50.8	13.7

--- Data not available.

<sup>1</sup>Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15–44 years.<sup>2</sup>Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40–44 years.<sup>3</sup>Includes races other than white, black, and Asian or Pacific Islander.<sup>4</sup>Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see "Technical Notes."<sup>5</sup>Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see "Technical Notes."<sup>6</sup>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."<sup>7</sup>Based on a 50-percent sample of births.<sup>8</sup>Rates for 1990 based on data for 48 States and the District of Columbia that reported Hispanic origin on the birth certificate. Rate shown for 1990 for ages 35–39 years are based on births to unmarried women aged 35–44 years.<sup>9</sup>Includes all persons of Hispanic origin of any race.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes." Rates cannot be computed for unmarried non-Hispanic black women or for American Indian women because the necessary populations are not available.



**Table 19. Number and percentages of births to unmarried women, by race and Hispanic origin of mother: United States, each State and territory, 2003**

[By place of residence]

State	Births to unmarried women						Percent unmarried					
	All races <sup>1</sup>	White		Black		Hispanic <sup>3</sup>	All races <sup>1</sup>	White		Black		Hispanic <sup>3</sup>
		Total <sup>2</sup>	Non-Hispanic	Total <sup>2</sup>	Non-Hispanic			Total <sup>2</sup>	Non-Hispanic	Total <sup>2</sup>	Non-Hispanic	
United States <sup>4</sup> . . . . .	1,415,995	947,012	546,991	409,333	394,831	410,620	34.6	29.4	23.6	68.2	68.5	45.0
Alabama . . . . .	20,827	8,274	7,577	12,434	12,409	707	35.0	20.2	19.9	69.3	69.4	24.3
Alaska . . . . .	3,487	1,556	1,154	187	115	311	34.6	24.0	23.5	46.3	43.6	40.4
Arizona . . . . .	37,762	30,833	9,968	2,028	1,628	21,017	41.5	39.1	25.4	62.2	61.8	52.8
Arkansas . . . . .	14,358	8,682	7,331	5,483	5,462	1,355	38.0	29.2	27.7	75.8	76.0	41.3
California . . . . .	181,364	150,305	33,916	20,099	19,287	116,468	33.5	34.3	20.3	62.1	62.4	43.2
Colorado . . . . .	18,519	16,311	7,722	1,530	1,456	8,827	26.7	25.8	18.2	52.1	51.9	41.3
Connecticut . . . . .	12,874	9,214	4,713	3,420	3,196	4,685	30.0	26.0	16.8	65.9	66.4	62.1
Delaware . . . . .	4,747	2,666	1,880	2,032	1,985	810	41.9	33.6	28.6	69.9	69.7	58.7
District of Columbia . . . . .	4,084	223	102	3,810	3,381	560	53.6	10.6	5.5	72.6	74.0	58.2
Florida . . . . .	84,762	51,729	29,943	31,695	31,095	22,477	39.9	32.7	28.7	67.0	67.2	41.0
Georgia . . . . .	51,854	22,950	14,824	28,244	27,781	8,154	38.1	26.0	21.5	65.5	66.1	44.7
Hawaii . . . . .	6,058	1,287	993	143	122	1,134	33.5	25.3	23.2	24.5	25.3	43.3
Idaho . . . . .	4,865	4,554	3,437	41	41	1,072	22.3	21.7	19.2	38.7	39.8	36.5
Illinois . . . . .	64,439	39,609	21,000	24,117	23,942	18,774	35.3	27.9	21.1	76.4	76.5	44.2
Indiana . . . . .	32,100	24,714	21,207	7,148	7,117	3,398	37.1	32.7	31.0	76.2	76.3	50.1
Iowa . . . . .	11,395	10,084	9,017	959	944	1,076	29.9	28.3	27.2	74.5	74.7	42.7
Kansas . . . . .	12,475	10,197	7,712	1,892	1,870	2,452	31.6	29.1	26.4	68.5	68.6	45.1
Kentucky . . . . .	18,683	14,925	14,109	3,557	3,542	859	33.8	30.2	29.7	73.3	73.6	43.8
Louisiana . . . . .	30,922	10,608	10,072	19,922	19,883	573	47.5	28.4	28.2	76.0	76.1	34.2
Maine . . . . .	4,642	4,468	4,400	63	58	55	33.5	33.4	33.5	34.4	33.0	33.1
Maryland . . . . .	26,084	10,661	8,241	14,917	14,182	3,214	34.8	23.8	21.0	58.5	58.8	46.1
Massachusetts . . . . .	22,263	16,360	11,425	5,003	3,741	6,118	27.8	24.8	19.7	58.2	56.9	62.4
Michigan . . . . .	45,386	27,865	24,058	16,646	16,522	3,362	34.6	27.0	25.7	73.8	74.0	43.8
Minnesota . . . . .	19,425	14,202	11,679	3,035	2,961	2,471	27.7	23.9	21.6	56.6	56.4	50.1
Mississippi . . . . .	19,926	5,740	5,491	13,945	13,941	242	47.0	24.7	24.2	75.2	75.2	44.6
Missouri . . . . .	27,426	18,383	16,912	8,598	8,497	1,585	35.6	28.8	28.0	77.0	77.2	45.5
Montana . . . . .	3,677	2,670	2,440	27	26	161	32.2	27.1	26.2	54.0	53.1	42.5
Nebraska . . . . .	7,687	6,250	4,605	1,033	1,019	1,503	29.7	26.7	23.7	70.4	70.6	43.5
Nevada . . . . .	13,172	10,159	4,580	2,022	1,930	5,627	39.1	36.7	29.3	69.7	70.1	46.1
New Hampshire . . . . .	3,571	3,429	3,028	102	73	210	24.8	25.1	24.1	42.0	42.2	39.8
New Jersey . . . . .	34,313	20,870	8,240	12,801	11,341	14,093	29.3	24.3	13.3	63.4	64.4	53.1
New Mexico . . . . .	13,479	10,377	2,380	326	281	8,113	48.4	44.6	27.7	61.3	59.0	54.7
New York . . . . .	92,597	56,594	25,739	31,946	29,071	33,424	36.5	30.8	19.5	66.5	66.4	60.5
North Carolina . . . . .	41,802	22,491	14,579	18,001	17,899	7,995	35.3	26.0	20.7	66.3	66.3	49.7
North Dakota . . . . .	2,276	1,599	1,490	32	30	56	28.5	23.2	22.7	29.4	28.3	33.3
Ohio . . . . .	54,130	36,551	33,925	17,096	16,846	2,719	36.2	29.6	28.7	75.4	75.5	50.8
Oklahoma . . . . .	18,915	12,721	10,349	3,291	3,243	2,466	37.1	31.8	30.1	71.2	71.2	43.0
Oregon . . . . .	14,586	13,017	9,360	652	627	3,645	31.7	31.3	28.3	64.0	64.2	43.2
Pennsylvania . . . . .	49,547	32,134	27,166	16,460	14,148	6,408	33.9	27.1	24.9	74.6	74.6	59.2
Rhode Island . . . . .	4,728	3,616	1,871	815	731	1,411	35.8	32.2	25.8	64.8	65.4	56.8
South Carolina . . . . .	22,857	9,380	7,832	13,269	13,224	1,574	41.1	25.9	24.0	72.4	72.5	43.0
South Dakota . . . . .	3,768	2,193	2,071	56	52	166	34.2	24.6	24.0	45.9	44.8	48.8
Tennessee . . . . .	29,367	17,141	14,854	11,934	11,889	2,338	37.2	28.1	26.5	73.4	73.5	47.4
Texas . . . . .	129,484	101,812	30,629	26,256	25,902	71,229	34.3	31.7	22.2	62.7	62.8	38.9
Utah . . . . .	8,590	7,794	5,062	181	165	2,726	17.2	16.5	12.6	47.3	48.4	38.6
Vermont . . . . .	1,978	1,929	1,896	28	27	17	30.0	30.1	30.0	52.8	51.9	*
Virginia . . . . .	30,816	16,164	12,154	14,080	13,706	4,420	30.4	22.5	19.5	62.3	62.8	42.5
Washington . . . . .	23,207	18,225	13,193	2,064	1,592	5,653	28.8	27.4	24.5	51.4	51.8	42.4
West Virginia . . . . .	7,235	6,665	6,598	538	533	35	34.6	33.3	33.2	74.6	74.8	33.7
Wisconsin . . . . .	21,300	14,881	12,444	5,347	5,291	2,542	30.4	24.7	22.7	82.3	82.4	45.9
Wyoming . . . . .	2,186	1,950	1,623	28	27	333	32.6	31.0	28.8	52.8	51.9	49.9
Puerto Rico . . . . .	26,962	23,825	---	3,125	---	---	53.2	51.7	---	67.9	---	---
Virgin Islands . . . . .	1,047	183	28	859	684	226	68.8	52.1	26.9	74.9	74.8	65.7
Guam . . . . .	1,821	39	33	12	12	17	55.5	14.1	13.7	*	*	*
American Samoa . . . . .	609	---	---	---	---	---	37.9	*	---	*	---	---
Northern Marianas . . . . .	780	4	---	---	---	---	57.8	*	---	*	---	---

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator. --- Data not available. -- Quantity zero.

<sup>1</sup>Includes races other than white and black and origin not stated.<sup>2</sup>Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. California, Hawaii, Ohio (for December), Pennsylvania, Utah, and Washington reported multiple-race data in 2003. The multiple-race data for these States were bridged to the single-race categories of the 1977 Office of Management and Budget standards for comparability with other States; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>3</sup>Includes all persons of Hispanic origin of any race.<sup>4</sup>Excludes data for the territories.

**Table 20. Birth rates by age and race of father: United States, 1980–2003**

[Rates are live births per 1,000 men in specified group. Populations enumerated as of April 1 for 1980, 1990, and 2000 and estimated as of July 1 for all other years. Figures for age of father not stated are distributed]

Year and race of father	Age of father									
	15–54 years <sup>1</sup>	15–19 years <sup>2</sup>	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 <sup>3</sup>										
2003	48.9	16.9	73.5	105.7	102.2	60.2	23.4	7.6	2.5	0.3
2002	48.4	17.4	75.6	105.0	99.1	57.7	22.6	7.4	2.4	0.3
2001	49.0	18.5	78.5	105.8	99.6	57.0	22.3	7.3	2.4	0.3
2000	50.0	19.8	82.1	106.5	99.5	56.3	22.2	7.3	2.5	0.3
1999	49.2	20.6	81.1	105.3	95.9	53.9	21.1	7.0	2.4	0.3
1998	49.6	21.3	82.3	104.4	94.4	53.1	21.0	7.1	2.5	0.3
1997	49.4	21.9	82.1	102.6	92.0	51.5	20.7	7.0	2.5	0.3
1996	50.2	22.7	83.4	102.8	91.3	51.1	20.5	6.9	2.5	0.3
1995	51.0	23.9	83.9	103.2	90.7	50.4	20.3	7.0	2.5	0.3
1994	52.4	24.6	85.6	105.3	91.1	50.5	20.3	7.2	2.6	0.3
1993	53.7	24.4	86.0	108.1	91.7	50.7	20.2	7.3	2.7	0.4
1992	55.3	24.4	87.1	111.1	93.0	51.1	20.4	7.3	2.7	0.4
1991	56.8	24.7	87.9	113.5	94.3	51.6	20.2	7.4	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 <sup>4</sup>	55.0	17.8	80.7	111.4	89.9	46.0	17.8	6.3	2.4	0.4
1983 <sup>4</sup>	55.1	18.2	82.6	113.0	89.1	45.2	17.4	6.4	2.3	0.4
1982 <sup>4</sup>	56.4	18.6	86.5	117.3	90.3	44.5	17.5	6.4	2.3	0.4
1981 <sup>4</sup>	56.3	18.4	88.4	119.1	88.7	43.3	17.0	6.2	2.3	0.4
1980 <sup>4</sup>	57.0	18.8	92.0	123.1	91.0	42.8	17.1	6.1	2.2	0.3
White										
2003	47.1	14.3	69.2	106.1	102.8	58.9	21.9	6.7	2.1	0.3
2002	46.4	14.8	70.8	104.8	99.4	56.4	21.0	6.6	2.0	0.3
2001	46.9	15.5	73.1	105.4	99.9	55.7	20.8	6.5	2.0	0.3
2000	47.6	16.6	75.8	105.4	99.5	54.7	20.7	6.5	2.1	0.3
1999	46.9	17.3	74.7	104.1	96.2	52.7	19.8	6.3	2.1	0.3
1998	47.1	17.7	75.6	102.7	94.3	51.9	19.6	6.3	2.1	0.3
1997	46.8	18.0	75.3	100.9	91.7	50.2	19.3	6.2	2.1	0.3
1996	47.7	18.7	76.7	101.4	91.1	49.9	19.2	6.1	2.1	0.2
1995	48.4	19.4	77.0	101.7	90.4	49.1	19.1	6.2	2.1	0.2
1994	49.3	19.5	77.4	103.1	90.4	48.9	18.9	6.3	2.2	0.3
1993	50.3	18.9	77.2	105.5	90.7	48.9	18.7	6.4	2.2	0.2
1992	51.8	18.8	77.8	108.2	91.9	49.1	18.8	6.4	2.2	0.3
1991	53.1	19.0	78.4	110.2	92.8	49.6	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 <sup>4</sup>	51.8	14.0	74.3	108.8	87.9	43.5	16.0	5.3	1.9	0.3
1983 <sup>4</sup>	52.0	14.4	76.3	110.2	86.8	42.6	15.5	5.3	1.8	0.3
1982 <sup>4</sup>	53.1	14.9	80.1	114.2	87.5	41.7	15.6	5.3	1.9	0.3
1981 <sup>4</sup>	52.9	15.0	81.7	115.8	85.8	40.3	15.0	5.2	1.8	0.3
1980 <sup>4</sup>	53.4	15.4	84.9	119.4	87.8	39.7	15.0	5.1	1.8	0.3

See footnotes at end of table.

**Table 20. Birth rates by age and race of father: United States, 1980–2003—Con.**

[Rates are live births per 1,000 men in specified group. Populations enumerated as of April 1 for 1980, 1990, and 2000 and estimated as of July 1 for all other years. Figures for age of father not stated are distributed]

Year and race of father	Age of father									
	15–54 years <sup>1</sup>	15–19 years <sup>2</sup>	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
Black										
2003	61.0	32.5	111.9	122.3	96.2	59.9	29.6	12.4	4.9	0.9
2002	61.2	33.3	116.2	123.6	94.0	57.8	28.5	12.0	4.7	0.9
2001	63.3	36.5	124.5	125.9	95.6	57.1	28.2	11.8	4.7	1.0
2000	66.2	39.6	135.5	131.0	95.2	56.9	28.4	11.7	5.0	1.0
1999	65.4	41.0	133.8	129.6	91.6	54.3	26.5	11.2	4.9	1.0
1998	66.8	42.8	137.0	130.3	90.9	54.0	26.7	11.6	5.0	1.0
1997	66.7	45.1	136.3	126.3	88.8	52.6	26.1	11.4	5.2	1.0
1996	67.2	46.7	137.6	123.9	87.0	51.8	25.7	11.3	5.3	1.1
1995	69.1	49.9	139.2	123.9	87.7	52.0	25.7	11.9	5.4	1.1
1994	74.0	54.1	149.1	129.6	91.4	53.8	26.4	12.8	5.8	1.1
1993	77.6	56.2	152.7	134.2	94.0	56.3	27.7	13.4	6.3	1.3
1992	80.4	57.0	157.1	138.6	95.8	56.7	28.4	13.7	6.1	1.4
1991	83.0	57.8	158.5	142.0	99.2	58.5	29.4	14.1	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 <sup>4</sup>	76.7	40.9	128.0	132.2	98.3	58.4	29.3	13.3	6.1	1.2
1983 <sup>4</sup>	77.2	40.7	129.1	134.4	99.0	59.6	29.6	13.5	6.0	1.2
1982 <sup>4</sup>	79.5	40.3	133.4	141.2	103.6	61.1	29.6	13.9	6.0	1.2
1981 <sup>4</sup>	80.4	38.9	138.4	145.6	104.3	61.3	29.7	13.3	5.7	1.2
1980 <sup>4</sup>	83.0	40.1	145.3	152.8	109.6	62.0	31.2	13.6	5.9	1.1

<sup>1</sup>Rates computed by relating total births, regardless of age of father, to men aged 15–54 years.

<sup>2</sup>Rates computed by relating births of fathers under 20 years of age to men aged 15–19 years.

<sup>3</sup>Includes races other than white and black.

<sup>4</sup>Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see "Technical Notes."

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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 13.4 percent of births in 2003.

**Table 21. Live births by educational attainment, and percentage of mothers completing 12 years or more and 16 years or more of school, by age and race and Hispanic origin of mother: Total of 48 States and the District of Columbia, 2003**

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		
<b>All races<sup>1</sup></b>									
All ages . . . . .	3,863,502	233,840	588,283	1,162,697	811,985	1,012,730	53,967	78.4	26.6
Under 15 years . . . . .	6,341	4,884	1,298	—	—	—	159	*	*
15-19 years . . . . .	394,919	33,508	196,889	137,333	21,114	—	6,075	40.7	*
15 years . . . . .	17,344	5,129	11,735	—	—	—	480	*	*
16 years . . . . .	39,332	4,963	32,475	1,119	—	—	775	2.9	*
17 years . . . . .	71,353	5,913	52,278	11,741	241	—	1,180	17.1	*
18 years . . . . .	112,293	7,972	50,769	48,493	3,516	—	1,543	47.0	*
19 years . . . . .	154,597	9,531	49,632	75,980	17,357	—	2,097	61.2	*
20-24 years . . . . .	980,514	63,057	204,945	423,305	220,117	56,387	12,703	72.3	5.8
25-29 years . . . . .	1,025,666	61,487	104,139	299,115	258,304	288,933	13,688	83.6	28.6
30-34 years . . . . .	916,840	42,846	54,016	190,800	199,543	417,131	12,504	89.3	46.1
35-39 years . . . . .	438,771	21,643	22,032	90,951	91,675	205,602	6,868	89.9	47.6
40 years and over . . . . .	100,451	6,415	4,964	21,193	21,232	44,677	1,970	88.4	45.4
<b>White total<sup>2</sup></b>									
All ages . . . . .	3,040,873	210,711	443,337	879,194	629,732	837,720	40,179	78.2	27.9
Under 15 years . . . . .	3,512	2,654	770	—	—	—	88	*	*
15-19 years . . . . .	284,360	28,528	139,800	97,463	14,252	—	4,317	39.9	*
15 years . . . . .	10,963	3,350	7,299	—	—	—	314	*	*
16 years . . . . .	26,861	3,952	21,584	768	—	—	557	2.9	*
17 years . . . . .	50,615	5,226	36,181	8,201	174	—	833	16.8	*
18 years . . . . .	81,801	7,218	37,295	33,847	2,335	—	1,106	44.8	*
19 years . . . . .	114,120	8,782	37,441	54,647	11,743	—	1,507	59.0	*
20-24 years . . . . .	750,290	58,793	157,422	316,774	163,806	43,939	9,556	70.8	5.9
25-29 years . . . . .	821,227	57,145	82,021	231,504	203,379	236,883	10,295	82.8	29.2
30-34 years . . . . .	745,992	38,746	42,990	147,820	159,135	348,034	9,267	88.9	47.2
35-39 years . . . . .	355,111	19,271	16,739	69,768	72,446	171,685	5,202	89.7	49.1
40 years and over . . . . .	80,381	5,574	3,595	15,865	16,714	37,179	1,454	88.4	47.1
<b>Non-Hispanic white</b>									
All ages . . . . .	2,158,797	33,454	212,021	620,663	513,666	760,496	18,497	88.5	35.5
Under 15 years . . . . .	1,316	1,042	250	—	—	—	24	*	*
15-19 years . . . . .	161,828	8,148	76,711	65,249	10,172	—	1,548	47.1	*
15 years . . . . .	4,548	1,364	3,088	—	—	—	96	*	*
16 years . . . . .	12,496	1,391	10,536	409	—	—	160	3.3	*
17 years . . . . .	26,846	1,574	20,006	4,869	112	—	285	18.8	*
18 years . . . . .	47,441	1,882	21,483	22,104	1,566	—	406	50.3	*
19 years . . . . .	70,497	1,937	21,598	37,867	8,494	—	601	66.3	*
20-24 years . . . . .	488,194	10,422	83,319	224,817	128,393	37,466	3,777	80.6	7.7
25-29 years . . . . .	582,914	6,599	31,320	161,587	166,223	212,531	4,654	93.4	36.8
30-34 years . . . . .	580,329	4,249	13,443	105,645	133,308	318,774	4,910	96.9	55.4
35-39 years . . . . .	280,645	2,217	5,519	51,239	61,266	157,579	2,825	97.2	56.7
40 years and over . . . . .	63,571	777	1,459	12,126	14,304	34,146	759	96.4	54.4
<b>Black total<sup>2</sup></b>									
All ages . . . . .	573,776	14,570	121,098	220,995	132,461	75,613	9,039	76.0	13.4
Under 15 years . . . . .	2,588	2,059	464	—	—	—	65	*	*
15-19 years . . . . .	96,294	4,206	50,240	34,553	5,826	—	1,469	42.6	*
15 years . . . . .	5,744	1,627	3,972	—	—	—	145	*	*
16 years . . . . .	11,047	877	9,689	291	—	—	190	2.7	*
17 years . . . . .	18,180	575	14,211	3,055	59	—	280	17.4	*
18 years . . . . .	26,567	587	11,849	12,782	975	—	374	52.5	*
19 years . . . . .	34,756	540	10,519	18,425	4,792	—	480	67.7	*
20-24 years . . . . .	187,923	2,698	40,520	88,414	45,546	8,306	2,439	76.7	4.5
25-29 years . . . . .	133,853	2,254	17,335	50,587	38,799	22,803	2,075	85.1	17.3
30-34 years . . . . .	93,416	1,855	7,815	29,141	26,379	26,455	1,771	89.4	28.9
35-39 years . . . . .	47,722	1,112	3,761	14,602	12,886	14,429	932	89.6	30.8
40 years and over . . . . .	11,980	386	963	3,698	3,025	3,620	288	88.5	31.0

See footnotes at end of table.

**Table 21. Live births by educational attainment, and percentage of mothers completing 12 years or more and 16 years or more of school, by age and race and Hispanic origin of mother: Total of 48 States and the District of Columbia, 2003—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		
Non-Hispanic black									
All ages . . . . .	553,987	12,376	117,279	214,309	128,458	73,396	8,169	76.2	13.4
Under 15 years . . . . .	2,531	2,019	450	—	—	—	62	*	*
15–19 years . . . . .	93,623	3,940	48,944	33,691	5,678	—	1,370	42.7	*
15 years . . . . .	5,595	1,577	3,880	—	—	—	138	*	*
16 years . . . . .	10,741	845	9,441	275	—	—	180	2.6	*
17 years . . . . .	17,640	528	13,842	2,953	56	—	261	17.3	*
18 years . . . . .	25,875	529	11,574	12,490	938	—	344	52.6	*
19 years . . . . .	33,772	461	10,207	17,973	4,684	—	447	68.0	*
20–24 years . . . . .	182,032	2,133	39,330	86,037	44,230	8,043	2,259	76.9	4.5
25–29 years . . . . .	128,686	1,642	16,608	48,887	37,574	22,138	1,837	85.6	17.5
30–34 years . . . . .	89,775	1,425	7,432	28,098	25,557	25,695	1,568	90.0	29.1
35–39 years . . . . .	45,795	887	3,589	14,003	12,486	14,012	818	90.0	31.2
40 years and over . . . . .	11,545	330	926	3,593	2,933	3,508	255	88.9	31.1
Hispanic <sup>3</sup>									
All ages . . . . .	888,177	179,657	234,793	263,657	118,461	75,687	15,922	52.5	8.7
Under 15 years . . . . .	2,250	1,653	538	—	—	—	59	*	*
15–19 years . . . . .	124,616	20,695	64,310	33,008	4,227	—	2,376	30.5	*
15 years . . . . .	6,569	2,048	4,319	—	—	—	202	*	*
16 years . . . . .	14,645	2,597	11,321	381	—	—	346	2.7	*
17 years . . . . .	24,201	3,706	16,513	3,433	63	—	486	14.7	*
18 years . . . . .	34,864	5,411	16,053	12,006	807	—	587	37.4	*
19 years . . . . .	44,337	6,933	16,104	17,188	3,357	—	755	47.1	*
20–24 years . . . . .	265,614	49,087	75,075	93,818	36,383	6,567	4,684	52.4	2.5
25–29 years . . . . .	239,989	51,257	51,384	71,223	37,833	24,022	4,270	56.5	10.2
30–34 years . . . . .	165,152	34,900	29,919	42,897	26,180	28,455	2,801	60.1	17.5
35–39 years . . . . .	74,008	17,231	11,402	18,912	11,397	13,688	1,378	60.6	18.8
40 years and over . . . . .	16,548	4,834	2,165	3,799	2,441	2,955	354	56.8	18.2

— Quantity zero.

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

<sup>1</sup>Includes races other than white and black.<sup>2</sup>Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>3</sup>Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."

**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 and race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 2003**

Period of gestation <sup>1</sup> and race and Hispanic origin of mother	Weight gain during pregnancy										Median weight gain in pounds
	All births	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 <sup>2</sup>											
Number											
All races <sup>3</sup> . . . . .	3,548,953	410,229	357,405	458,300	585,514	454,516	418,727	228,945	428,973	206,344	...
White total <sup>4</sup> . . . . .	2,787,474	297,601	270,105	360,388	467,186	371,152	339,605	187,293	344,316	149,828	...
Non-Hispanic white . . . . .	2,155,140	209,691	191,953	273,520	364,606	301,256	276,213	155,532	288,331	94,038	...
Black total <sup>4</sup> . . . . .	567,498	92,425	65,566	69,982	83,575	57,462	57,291	30,703	68,200	42,294	...
Non-Hispanic black . . . . .	545,108	89,567	63,330	67,261	80,128	54,794	54,955	29,358	65,593	40,122	...
Hispanic <sup>5</sup> . . . . .	642,624	89,493	79,745	88,603	104,476	71,213	64,337	32,378	57,131	55,248	...
Under 37 weeks											
All races <sup>3</sup> . . . . .	446,127	74,658	54,205	58,190	65,791	45,957	42,005	23,039	47,909	34,373	...
White total <sup>4</sup> . . . . .	323,512	48,655	37,925	42,906	49,059	35,270	32,146	17,939	36,835	22,777	...
Non-Hispanic white . . . . .	245,822	34,007	27,164	32,544	37,889	28,240	25,827	14,801	31,057	14,293	...
Black total <sup>4</sup> . . . . .	100,594	22,643	13,279	12,078	13,313	8,379	7,940	4,103	9,307	9,552	...
Non-Hispanic black . . . . .	97,637	22,095	12,934	11,716	12,913	8,118	7,670	3,980	9,030	9,181	...
Hispanic <sup>5</sup> . . . . .	79,155	14,951	11,001	10,606	11,437	7,172	6,481	3,185	5,924	8,398	...
37–39 weeks											
All races <sup>3</sup> . . . . .	1,840,887	206,842	187,372	244,844	313,404	241,613	218,550	116,542	212,395	99,325	...
White total <sup>4</sup> . . . . .	1,453,012	152,418	142,680	193,129	250,810	197,615	177,547	95,375	170,584	72,854	...
Non-Hispanic white . . . . .	1,132,187	108,662	102,628	147,745	197,456	161,398	145,178	79,633	143,168	46,319	...
Black total <sup>4</sup> . . . . .	285,044	44,031	32,885	36,383	43,419	29,983	29,633	15,521	33,735	19,454	...
Non-Hispanic black . . . . .	273,918	42,660	31,749	34,956	41,644	28,572	28,466	14,863	32,538	18,470	...
Hispanic <sup>5</sup> . . . . .	325,928	44,501	40,890	46,283	54,296	36,926	32,799	16,034	27,880	26,319	...
40 weeks and over											
All races <sup>3</sup> . . . . .	1,255,561	128,090	115,499	154,873	205,866	166,612	157,852	89,183	168,291	69,295	...
White total <sup>4</sup> . . . . .	1,006,388	96,115	89,267	124,055	166,970	138,004	129,669	73,837	136,636	51,835	...
Non-Hispanic white . . . . .	774,234	66,768	62,008	93,030	129,014	111,458	105,044	60,990	113,905	32,017	...
Black total <sup>4</sup> . . . . .	180,423	25,553	19,326	21,447	26,773	19,047	19,662	11,044	25,062	12,509	...
Non-Hispanic black . . . . .	172,228	24,625	18,574	20,517	25,502	18,052	18,768	10,484	23,930	11,776	...
Hispanic <sup>5</sup> . . . . .	236,120	29,887	27,779	31,618	38,640	27,016	24,979	13,122	23,275	19,804	...
All gestation periods <sup>2</sup>											
Percent distribution											
All races <sup>3</sup> . . . . .	100.0	12.3	10.7	13.7	17.5	13.6	12.5	6.8	12.8	...	30.5
White total <sup>4</sup> . . . . .	100.0	11.3	10.2	13.7	17.7	14.1	12.9	7.1	13.1	...	30.7
Non-Hispanic white . . . . .	100.0	10.2	9.3	13.3	17.7	14.6	13.4	7.5	14.0	...	31.0
Black total <sup>4</sup> . . . . .	100.0	17.6	12.5	13.3	15.9	10.9	10.9	5.8	13.0	...	29.9
Non-Hispanic black . . . . .	100.0	17.7	12.5	13.3	15.9	10.9	10.9	5.8	13.0	...	29.8
Hispanic <sup>5</sup> . . . . .	100.0	15.2	13.6	15.1	17.8	12.1	11.0	5.5	9.7	...	28.7
Under 37 weeks											
All races <sup>3</sup> . . . . .	100.0	18.1	13.2	14.1	16.0	11.2	10.2	5.6	11.6	...	28.3
White total <sup>4</sup> . . . . .	100.0	16.2	12.6	14.3	16.3	11.7	10.7	6.0	12.2	...	29.4
Non-Hispanic white . . . . .	100.0	14.7	11.7	14.1	16.4	12.2	11.2	6.4	13.4	...	30.2
Black total <sup>4</sup> . . . . .	100.0	24.9	14.6	13.3	14.6	9.2	8.7	4.5	10.2	...	25.6
Non-Hispanic black . . . . .	100.0	25.0	14.6	13.2	14.6	9.2	8.7	4.5	10.2	...	25.6
Hispanic <sup>5</sup> . . . . .	100.0	21.1	15.5	15.0	16.2	10.1	9.2	4.5	8.4	...	25.7

See footnotes at end of table.

**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 and race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 2003—Con.**

Period of gestation <sup>1</sup> and race and Hispanic origin of mother	Weight gain during pregnancy										Median weight gain in pounds
	All births	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	
37–39 weeks		Percent distribution									
All races <sup>3</sup> . . . . .	100.0	11.9	10.8	14.1	18.0	13.9	12.5	6.7	12.2	...	30.5
White total <sup>4</sup> . . . . .	100.0	11.0	10.3	14.0	18.2	14.3	12.9	6.9	12.4	...	30.6
Non-Hispanic white . . . . .	100.0	10.0	9.5	13.6	18.2	14.9	13.4	7.3	13.2	...	30.9
Black total <sup>4</sup> . . . . .	100.0	16.6	12.4	13.7	16.3	11.3	11.2	5.8	12.7	...	30.0
Non-Hispanic black . . . . .	100.0	16.7	12.4	13.7	16.3	11.2	11.1	5.8	12.7	...	30.0
Hispanic <sup>5</sup> . . . . .	100.0	14.9	13.6	15.4	18.1	12.3	10.9	5.4	9.3	...	28.6
40 weeks and over											
All races <sup>3</sup> . . . . .	100.0	10.8	9.7	13.1	17.4	14.0	13.3	7.5	14.2	...	30.9
White total <sup>4</sup> . . . . .	100.0	10.1	9.4	13.0	17.5	14.5	13.6	7.7	14.3	...	31.1
Non-Hispanic white . . . . .	100.0	9.0	8.4	12.5	17.4	15.0	14.2	8.2	15.3	...	32.3
Black total <sup>4</sup> . . . . .	100.0	15.2	11.5	12.8	15.9	11.3	11.7	6.6	14.9	...	30.4
Non-Hispanic black . . . . .	100.0	15.3	11.6	12.8	15.9	11.3	11.7	6.5	14.9	...	30.4
Hispanic <sup>5</sup> . . . . .	100.0	13.8	12.8	14.6	17.9	12.5	11.5	6.1	10.8	...	30.0

... Category not applicable.

<sup>1</sup>Expressed in completed weeks.

<sup>2</sup>Includes births with period of gestation not stated.

<sup>3</sup>Includes races other than white and black and origin not stated.

<sup>4</sup>Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."

<sup>5</sup>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. Percentage 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, 2003**

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

Period of gestation <sup>1</sup> 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 <sup>2</sup>										
All races <sup>3</sup> . . . . .	8.1	13.9	10.7	8.3	6.9	5.9	5.6	5.7	6.1	12.2
White total <sup>4</sup> . . . . .	7.1	11.8	9.3	7.4	6.1	5.3	5.1	5.3	5.7	10.4
Non-Hispanic white . . . . .	7.1	12.2	9.8	7.6	6.2	5.4	5.1	5.3	5.9	11.0
Black total <sup>4</sup> . . . . .	13.4	20.9	16.3	13.4	11.7	10.0	9.1	8.6	8.3	18.8
Non-Hispanic black . . . . .	13.6	21.1	16.5	13.5	11.9	10.2	9.2	8.7	8.3	19.0
Hispanic <sup>5</sup> . . . . .	7.0	10.9	8.2	6.8	5.8	5.2	4.8	4.9	4.9	9.5
Mexican . . . . .	6.5	10.0	7.5	6.2	5.4	4.8	4.3	4.5	4.5	8.5
Puerto Rican . . . . .	10.1	17.3	13.2	10.4	8.5	7.4	7.1	6.8	6.2	17.5
Cuban . . . . .	7.0	14.1	10.6	7.9	6.1	6.5	5.5	3.8	4.4	12.0
Central and South American . . . . .	6.6	11.5	8.2	6.8	5.8	4.5	4.2	4.9	4.9	9.7
Other and unknown Hispanic . . . . .	8.2	12.6	9.9	7.7	6.8	6.7	6.5	5.2	5.7	13.7
Under 37 weeks										
All races <sup>3</sup> . . . . .	43.6	55.5	47.8	42.6	39.1	37.1	36.0	37.1	37.0	53.4
White total <sup>4</sup> . . . . .	41.3	52.1	45.6	40.6	37.2	35.6	35.1	36.4	36.6	50.6
Non-Hispanic white . . . . .	42.8	54.9	48.3	42.4	38.8	36.7	36.6	37.4	37.8	54.6
Black total <sup>4</sup> . . . . .	51.4	62.9	54.6	49.9	46.3	44.0	40.6	40.9	39.3	61.0
Non-Hispanic black . . . . .	51.6	63.0	54.8	50.1	46.6	44.3	40.6	41.2	39.3	61.1
Hispanic <sup>5</sup> . . . . .	36.6	45.7	38.6	35.1	31.8	31.0	29.5	31.3	29.7	43.4
37–39 weeks										
All races <sup>3</sup> . . . . .	4.0	5.9	5.1	4.4	3.7	3.3	3.0	3.1	3.2	5.0
White total <sup>4</sup> . . . . .	3.4	5.0	4.3	3.8	3.2	2.9	2.6	2.8	2.9	4.2
Non-Hispanic white . . . . .	3.4	5.0	4.3	3.8	3.1	2.8	2.6	2.8	2.9	4.1
Black total <sup>4</sup> . . . . .	6.7	8.9	8.2	7.2	6.4	5.4	5.2	4.8	4.6	7.7
Non-Hispanic black . . . . .	6.7	9.0	8.3	7.2	6.5	5.5	5.3	4.8	4.6	7.8
Hispanic <sup>5</sup> . . . . .	3.7	5.0	4.3	3.8	3.5	3.2	2.7	2.9	2.9	4.4
40 weeks and over										
All races <sup>3</sup> . . . . .	1.6	2.8	2.3	1.8	1.5	1.3	1.2	1.1	1.1	2.1
White total <sup>4</sup> . . . . .	1.3	2.3	1.9	1.5	1.3	1.1	1.0	0.9	1.0	1.6
Non-Hispanic white . . . . .	1.3	2.3	2.0	1.5	1.2	1.1	0.9	0.9	0.9	1.5
Black total <sup>4</sup> . . . . .	3.0	4.6	4.0	3.4	2.9	2.3	2.3	1.9	1.7	3.8
Non-Hispanic black . . . . .	3.1	4.7	4.0	3.4	3.0	2.3	2.3	1.9	1.8	3.8
Hispanic <sup>5</sup> . . . . .	1.5	2.6	1.9	1.6	1.4	1.1	1.1	1.0	1.1	1.9

<sup>1</sup>Expressed in completed weeks.<sup>2</sup>Includes births with period of gestation not stated.<sup>3</sup>Includes races other than white and black and origin not stated.<sup>4</sup>Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>5</sup>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. Percentage of births with selected medical or health characteristics, by race of mother, by place of birth of mother: United States, 2003**

Characteristic	All races	White	Black	American Indian <sup>1</sup>	Asian or Pacific Islander
<b>All births</b>					
<b>Mother</b>					
Prenatal care beginning in the first trimester <sup>2</sup> . . . . .	84.1	85.7	75.9	70.8	85.4
Late or no prenatal care <sup>2</sup> . . . . .	3.5	3.0	6.0	7.6	3.1
Smoker <sup>2,3</sup> . . . . .	10.7	11.6	8.1	18.1	2.2
Drinker <sup>2,4</sup> . . . . .	0.7	0.8	0.7	2.2	0.3
Weight gain of less than 16 lbs <sup>5</sup> . . . . .	12.3	11.3	17.6	17.3	9.6
Median weight gain <sup>5</sup> . . . . .	30.5	30.7	29.9	29.8	30.2
Cesarean delivery rate . . . . .	27.5	27.3	29.1	24.1	26.6
<b>Infant</b>					
Preterm births <sup>6</sup> . . . . .	12.3	11.5	17.6	13.5	10.5
Birthweight . . . . .					
Very low birthweight <sup>7</sup> . . . . .	1.4	1.2	3.1	1.3	1.1
Low birthweight <sup>8</sup> . . . . .	7.9	6.9	13.4	7.4	7.8
4,000 grams or more <sup>9</sup> . . . . .	8.9	9.8	4.9	10.9	5.3
5-minute Apgar score of less than 7 <sup>10</sup> . . . . .	1.4	1.3	2.3	1.5	1.0
<b>Births to mothers born in the 50 States and DC</b>					
<b>Mother</b>					
Prenatal care beginning in the first trimester <sup>2</sup> . . . . .	85.7	88.0	75.9	70.5	83.7
Late or no prenatal care <sup>2</sup> . . . . .	3.0	2.4	5.8	7.7	3.2
Smoker <sup>2,3</sup> . . . . .	13.1	13.9	9.3	19.0	7.3
Drinker <sup>2,4</sup> . . . . .	0.9	0.8	0.8	2.3	0.6
Weight gain of less than 16 lbs <sup>5</sup> . . . . .	11.9	10.6	17.9	17.4	9.4
Median weight gain <sup>5</sup> . . . . .	30.7	30.9	30.0	30.0	30.8
Cesarean delivery rate . . . . .	27.7	27.6	28.8	24.0	23.6
<b>Infant</b>					
Preterm births <sup>6</sup> . . . . .	12.7	11.6	18.2	13.6	12.2
Birthweight . . . . .					
Very low birthweight <sup>7</sup> . . . . .	1.5	1.2	3.1	1.3	1.3
Low birthweight <sup>8</sup> . . . . .	8.3	7.2	13.9	7.3	8.8
4,000 grams or more <sup>9</sup> . . . . .	9.1	10.0	4.5	11.1	6.3
5-minute Apgar score of less than 7 <sup>10</sup> . . . . .	1.5	1.3	2.3	1.5	1.2
<b>Births to mothers born outside the 50 States and DC</b>					
<b>Mother</b>					
Prenatal care beginning in the first trimester <sup>2</sup> . . . . .	79.1	77.8	76.2	76.2	85.8
Late or no prenatal care <sup>2</sup> . . . . .	5.1	5.4	6.8	6.2	3.1
Smoker <sup>2,3</sup> . . . . .	1.5	1.7	1.0	2.6	1.1
Drinker <sup>2,4</sup> . . . . .	0.3	0.3	0.2	*	0.3
Weight gain of less than 16 lbs <sup>5</sup> . . . . .	13.8	14.6	15.6	16.0	9.7
Median weight gain <sup>5</sup> . . . . .	28.9	28.6	28.8	27.6	30.1
Cesarean delivery rate . . . . .	26.9	26.3	31.0	26.6	27.2
<b>Infant</b>					
Preterm births <sup>6</sup> . . . . .	11.0	10.9	13.9	12.4	10.1
Birthweight . . . . .					
Very low birthweight <sup>7</sup> . . . . .	1.1	1.0	2.4	1.1	1.0
Low birthweight <sup>8</sup> . . . . .	6.6	6.0	9.6	8.2	7.6
4,000 grams or more <sup>9</sup> . . . . .	8.2	9.0	7.7	6.8	5.1
5-minute Apgar score of less than 7 <sup>10</sup> . . . . .	1.1	1.0	1.8	1.4	1.0

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

<sup>1</sup>Includes births to Aleuts and Eskimos.

<sup>2</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."

<sup>3</sup>Excludes data for California, which did not report tobacco use on the birth certificate.

<sup>4</sup>Excludes data for California, which did not report alcohol use on the birth certificate.

<sup>5</sup>Excludes data for California, which did not report weight gain on the birth certificate. Median weight shown in pounds.

<sup>6</sup>Born prior to 37 completed weeks of gestation.

<sup>7</sup>Birthweight of less than 1,500 grams (3 lb 4 oz).      <sup>8</sup>Birthweight of less than 2,500 grams (5 lb 8 oz).

<sup>9</sup>Equivalent to 8 lb 14 oz.

<sup>10</sup>Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. In this table all women (including Hispanic women) are classified only according to their race; see "Technical Notes."

**Table 25. Percentage 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, 2003**

Characteristic	All origins <sup>1</sup>	Origin of mother								
		Total	Hispanic					Non-Hispanic		
			Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	White	Black
<b>All births</b>										
<b>Mother</b>										
Prenatal care beginning in the first trimester <sup>3</sup> . . . .	84.1	77.5	76.5	81.2	92.1	79.2	77.0	86.1	89.0	75.9
Late or no prenatal care <sup>3</sup> . . . . .	3.5	5.3	5.6	3.7	1.3	4.7	5.4	3.0	2.1	6.0
Smoker <sup>3,4</sup> . . . . .	10.7	2.7	2.0	7.9	2.4	1.1	6.6	12.6	14.3	8.3
Drinker <sup>3,5</sup> . . . . .	0.7	0.4	0.4	0.6	0.3	0.3	0.9	0.8	0.9	0.8
Weight gain of less than 16 lbs <sup>6</sup> . . . . .	12.3	15.2	16.9	12.8	7.8	12.3	13.2	11.6	10.2	17.7
Median weight gain <sup>6</sup> . . . . .	30.5	28.7	27.3	30.7	31.9	30.1	30.3	30.7	31.0	29.8
Cesarean delivery rate . . . . .	27.5	26.5	25.8	27.6	39.8	28.4	25.9	27.8	27.6	29.2
<b>Infant</b>										
Preterm births <sup>7</sup> . . . . .	12.3	11.9	11.7	13.8	11.8	11.4	12.6	12.5	11.3	17.8
<b>Birthweight</b>										
Very low birthweight <sup>8</sup> . . . . .	1.4	1.2	1.1	2.0	1.4	1.2	1.3	1.5	1.2	3.1
Low birthweight <sup>9</sup> . . . . .	7.9	6.7	6.3	10.0	7.0	6.7	8.0	8.3	7.0	13.6
4,000 grams or more <sup>10</sup> . . . . .	8.9	8.2	8.5	6.2	8.3	8.0	7.0	9.0	10.4	4.8
5-minute Apgar score of less than 7 <sup>11</sup> . . . . .	1.4	1.1	1.1	1.5	0.8	0.9	1.2	1.5	1.3	2.3
<b>Births to mothers born in the 50 States and DC</b>										
<b>Mother</b>										
Prenatal care beginning in the first trimester <sup>3</sup> . . . .	85.7	80.8	80.6	80.7	91.5	84.2	77.8	86.3	89.1	75.9
Late or no prenatal care <sup>3</sup> . . . . .	3.0	4.1	4.1	3.9	1.4	3.1	5.2	2.9	2.1	5.8
Smoker <sup>3,4</sup> . . . . .	13.1	5.8	4.7	9.1	3.5	3.5	8.7	13.8	14.9	9.3
Drinker <sup>3,5</sup> . . . . .	0.9	0.8	0.8	0.6	0.5	0.5	1.1	0.9	0.9	0.8
Weight gain of less than 16 lbs <sup>6</sup> . . . . .	11.9	13.6	14.7	12.2	7.9	9.0	13.1	11.7	10.2	18.0
Median weight gain <sup>6</sup> . . . . .	30.7	30.3	30.1	30.8	32.6	31.0	30.5	30.8	31.0	30.0
Cesarean delivery rate . . . . .	27.7	26.8	26.6	27.0	35.8	26.8	25.6	27.8	27.7	28.9
<b>Infant</b>										
Preterm births <sup>7</sup> . . . . .	12.7	13.0	13.0	13.6	12.4	11.6	13.3	12.7	11.4	18.3
<b>Birthweight</b>										
Very low birthweight <sup>8</sup> . . . . .	1.5	1.4	1.3	2.0	1.7	1.6	1.3	1.5	1.2	3.2
Low birthweight <sup>9</sup> . . . . .	8.3	7.8	7.4	10.0	7.8	7.6	8.7	8.4	7.1	14.0
4,000 grams or more <sup>10</sup> . . . . .	9.1	7.3	7.6	6.3	7.3	7.4	6.8	9.3	10.4	4.4
5-minute Apgar score of less than 7 <sup>11</sup> . . . . .	1.5	1.2	1.2	1.4	0.9	1.0	1.2	1.5	1.3	2.4
<b>Births to mothers born in the 50 States and DC</b>										
<b>Mother</b>										
Prenatal care beginning in the first trimester <sup>3</sup> . . . .	79.1	75.6	74.1	82.3	92.6	78.5	75.2	84.5	86.9	76.5
Late or no prenatal care <sup>3</sup> . . . . .	5.1	5.9	6.5	3.4	1.1	4.9	5.8	3.8	3.1	6.9
Smoker <sup>3,4</sup> . . . . .	1.5	0.9	0.5	5.7	1.5	0.8	1.5	2.4	4.5	1.0
Drinker <sup>3,5</sup> . . . . .	0.3	0.2	0.2	0.4	*	0.3	0.3	0.5	0.8	0.2
Weight gain of less than 16 lbs <sup>6</sup> . . . . .	13.8	16.2	18.2	13.9	7.7	12.7	13.3	10.7	9.0	15.9
Median weight gain <sup>6</sup> . . . . .	28.9	27.3	25.9	30.3	31.0	29.8	29.8	30.3	30.7	28.5
Cesarean delivery rate . . . . .	26.9	26.4	25.3	28.9	43.3	28.6	26.8	27.6	26.0	31.7
<b>Infant</b>										
Preterm births <sup>7</sup> . . . . .	11.0	11.2	11.0	14.2	11.3	11.4	10.5	10.7	9.5	14.2
<b>Birthweight</b>										
Very low birthweight <sup>8</sup> . . . . .	1.1	1.0	0.9	2.0	1.1	1.1	0.9	1.3	1.0	2.6
Low birthweight <sup>9</sup> . . . . .	6.6	6.0	5.7	10.0	6.3	6.6	5.9	7.5	6.2	10.0
4,000 grams or more <sup>10</sup> . . . . .	8.2	8.7	9.0	6.1	9.2	8.1	7.4	7.4	10.4	7.7
5-minute Apgar score of less than 7 <sup>11</sup> . . . . .	1.1	1.0	1.1	1.6	0.8	0.9	1.0	1.2	0.9	1.9

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator. <sup>1</sup>Includes origin not stated. <sup>2</sup>Includes races other than white and black.

<sup>3</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."

<sup>4</sup>Excludes data for California, which did not report tobacco use on the birth certificate. <sup>5</sup>Excludes data for California, which did not report alcohol use on the birth certificate.

<sup>6</sup>Excludes data for California, which did not report weight gain on the birth certificate. Median weight gain shown in pounds. <sup>7</sup>Born prior to 37 completed weeks of gestation.

<sup>8</sup>Birthweight of less than 1,500 grams (3 lb 4 oz). <sup>9</sup>Birthweight of less than 2,500 grams (5 lb 8 oz).

<sup>10</sup> Equivalent to 8 lb 14 oz. <sup>11</sup>Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

[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 <sup>1</sup>	Medical risk factor reported	Age of mother							Not stated <sup>2</sup>
			All ages	Under 20 years	20–24 years	25–29 years	30–34 years	35–39 years	40–54 years	
All races <sup>3</sup>										
Anemia <sup>4</sup>	3,863,502	91,535	23.8	33.0	28.3	22.1	19.6	19.1	19.6	21,412
Cardiac disease <sup>4</sup>	3,863,502	18,639	4.9	2.6	3.4	4.5	6.1	7.4	8.9	21,412
Acute or chronic lung disease <sup>4</sup>	3,863,502	46,356	12.1	14.5	12.6	11.6	11.2	11.5	12.5	21,412
Diabetes	4,089,950	133,547	32.8	9.9	18.6	31.1	43.0	58.0	75.9	21,150
Genital herpes <sup>4,5</sup>	3,486,026	31,567	9.1	6.3	8.0	8.3	10.2	12.6	13.1	19,121
Hydramnios/Oligohydramnios <sup>4</sup>	3,863,502	53,141	13.8	14.5	13.8	13.3	13.6	14.4	17.0	21,412
Hemoglobinopathy <sup>4</sup>	3,863,502	3,112	0.8	1.0	0.9	0.7	0.8	0.8	0.7	21,412
Hypertension, chronic	4,089,950	35,953	8.8	2.9	5.0	8.0	10.9	16.3	26.1	21,150
Hypertension, pregnancy-associated	4,089,950	152,268	37.4	41.2	36.9	36.9	35.5	37.9	47.8	21,150
Eclampsia	4,089,950	12,059	3.0	4.1	3.1	2.6	2.6	3.0	3.7	21,150
Incompetent cervix <sup>4</sup>	3,863,502	11,464	3.0	1.5	2.1	2.9	3.8	4.6	5.1	21,412
Previous infant 4,000+ grams <sup>4</sup>	3,863,502	36,422	9.5	1.1	5.3	9.8	13.2	16.0	18.5	21,412
Previous preterm or small-for-gestational-age infant <sup>4</sup>	3,863,502	44,671	11.6	4.1	11.1	12.3	12.9	14.6	15.9	21,412
Renal disease <sup>4</sup>	3,863,502	11,668	3.0	3.2	3.3	3.2	2.8	2.5	2.5	21,412
Rh sensitization <sup>4,6</sup>	3,824,026	26,040	6.8	5.4	6.2	6.7	7.7	7.8	7.4	21,401
Uterine bleeding <sup>4,5</sup>	3,486,026	18,494	5.3	4.0	4.7	5.3	5.8	6.5	8.0	19,121
White										
Anemia <sup>4</sup>	3,040,873	63,274	20.9	29.0	24.6	19.4	17.9	17.4	17.8	17,412
Cardiac disease <sup>4</sup>	3,040,873	15,582	5.2	2.6	3.5	4.8	6.5	7.8	9.4	17,412
Acute or chronic lung disease <sup>4</sup>	3,040,873	34,801	11.5	12.6	11.7	11.2	11.1	11.3	12.4	17,412
Diabetes	3,225,848	100,954	31.5	10.0	18.3	29.3	40.3	53.8	70.2	16,400
Genital herpes <sup>4,5</sup>	2,719,331	24,126	8.9	5.6	7.0	7.8	10.5	13.3	14.3	15,506
Hydramnios/Oligohydramnios <sup>4</sup>	3,040,873	40,374	13.4	13.8	13.3	12.9	13.1	13.9	15.9	17,412
Hemoglobinopathy <sup>4</sup>	3,040,873	1,229	0.4	0.3	0.3	0.4	0.5	0.6	0.5	17,412
Hypertension, chronic	3,225,848	24,422	7.6	2.5	4.3	7.0	9.4	13.3	21.0	16,400
Hypertension, pregnancy-associated	3,225,848	121,834	38.0	40.4	37.4	38.4	36.2	37.9	46.9	16,400
Eclampsia	3,225,848	8,772	2.7	3.6	2.9	2.5	2.5	2.7	3.6	16,400
Incompetent cervix <sup>4</sup>	3,040,873	7,660	2.5	1.3	1.7	2.3	3.2	4.0	4.5	17,412
Previous infant 4,000+ grams <sup>4</sup>	3,040,873	32,403	10.7	1.3	5.8	10.8	14.7	17.9	20.8	17,412
Previous preterm or small-for-gestational-age infant <sup>4</sup>	3,040,873	34,285	11.3	3.8	10.4	11.9	12.7	14.4	15.4	17,412
Renal disease <sup>4</sup>	3,040,873	10,098	3.3	3.6	3.7	3.5	3.0	2.7	2.8	17,412
Rh sensitization <sup>4,6</sup>	3,005,866	23,384	7.8	6.3	7.1	7.6	8.8	9.0	8.4	17,402
Uterine bleeding <sup>4,5</sup>	2,719,331	15,207	5.6	4.2	5.0	5.6	6.0	6.8	8.1	15,506
Black										
Anemia <sup>4</sup>	573,776	22,222	38.9	42.5	41.3	38.5	35.1	32.2	32.6	2,525
Cardiac disease <sup>4</sup>	573,776	2,221	3.9	2.6	3.0	3.9	5.1	6.4	8.0	2,525
Acute or chronic lung disease <sup>4</sup>	573,776	9,167	16.0	19.4	16.4	15.2	14.1	14.4	14.3	2,525
Diabetes	599,847	18,352	30.7	9.0	18.2	33.0	49.7	67.2	89.4	2,655
Genital herpes <sup>4,5</sup>	531,891	6,290	11.9	8.5	12.1	13.4	12.7	12.5	9.9	2,247
Hydramnios/Oligohydramnios <sup>4</sup>	573,776	9,305	16.3	16.6	15.2	15.5	17.2	18.7	23.7	2,525
Hemoglobinopathy <sup>4</sup>	573,776	1,708	3.0	3.0	3.2	2.9	3.1	2.6	2.3	2,525
Hypertension, chronic	599,847	9,921	16.6	4.3	8.2	16.2	27.4	43.5	64.6	2,655
Hypertension, pregnancy-associated	599,847	24,003	40.2	43.7	37.0	36.4	42.7	46.7	58.2	2,655
Eclampsia	599,847	2,751	4.6	5.7	4.2	3.9	4.6	5.8	5.1	2,655
Incompetent cervix <sup>4</sup>	573,776	3,228	5.7	1.9	3.7	6.6	9.4	10.3	9.2	2,525
Previous infant 4,000+ grams <sup>4</sup>	573,776	2,371	4.2	0.6	2.8	5.2	6.7	7.8	8.2	2,525
Previous preterm or small-for-gestational-age infant <sup>4</sup>	573,776	8,000	14.0	4.8	13.7	16.9	17.8	17.6	19.3	2,525
Renal disease <sup>4</sup>	573,776	1,073	1.9	1.9	1.9	1.9	1.9	1.8	*	2,525
Rh sensitization <sup>4,6</sup>	571,013	2,129	3.7	3.1	3.7	3.8	4.2	4.0	4.6	2,525
Uterine bleeding <sup>4,5</sup>	531,891	2,253	4.3	3.4	3.7	4.1	5.4	5.3	8.2	2,247

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

<sup>1</sup>Total number of births to residents of areas reporting specified medical risk factor.<sup>2</sup>No response reported for the medical risk factor item.<sup>3</sup>Includes races other than white and black.<sup>4</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."<sup>5</sup>Texas does not report this risk factor.<sup>6</sup>Kansas does not report this risk factor.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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 race of mother: United States, 2003**

[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 <sup>1</sup>	Asian or Pacific Islander
Medical risk factors			Number		
Anemia <sup>2</sup> . . . . .	91,535	63,274	22,222	2,113	3,926
Diabetes . . . . .	133,547	100,954	18,352	2,139	12,102
Hypertension, pregnancy-associated . . . . .	152,268	121,834	24,003	2,120	4,311
Uterine bleeding <sup>2,3</sup> . . . . .	18,494	15,207	2,253	263	771
Complications of labor and/or delivery					
Meconium, moderate or heavy . . . . .	197,865	146,301	38,349	2,098	11,117
Premature rupture of membrane <sup>2</sup> . . . . .	83,103	62,759	14,401	1,331	4,612
Dysfunctional labor <sup>2</sup> . . . . .	109,836	85,039	16,027	1,515	7,255
Breech/Malpresentation . . . . .	156,804	127,933	19,075	1,499	8,297
Cephalopelvic disproportion <sup>2</sup> . . . . .	56,111	45,314	6,074	588	4,135
Fetal distress <sup>2,4</sup> . . . . .	132,377	98,501	25,049	1,372	7,455
Obstetric procedures					
Amniocentesis <sup>2</sup> . . . . .	66,901	54,686	6,092	435	5,688
Electronic fetal monitoring <sup>2</sup> . . . . .	3,289,703	2,591,505	493,605	34,831	169,762
Induction of labor . . . . .	840,137	696,703	104,123	8,501	30,810
Ultrasound <sup>2</sup> . . . . .	2,592,258	2,069,050	355,001	24,983	143,224
Stimulation of labor <sup>2</sup> . . . . .	645,075	512,549	89,024	6,553	36,949
Medical risk factors			Rate		
Anemia <sup>2</sup> . . . . .	23.8	20.9	38.9	52.4	19.0
Diabetes . . . . .	32.8	31.5	30.7	50.1	55.1
Hypertension, pregnancy-associated . . . . .	37.4	38.0	40.2	49.7	19.6
Uterine bleeding <sup>2,3</sup> . . . . .	5.3	5.6	4.3	6.7	4.0
Complications of labor and/or delivery					
Meconium, moderate or heavy . . . . .	48.6	45.5	64.1	49.1	50.6
Premature rupture of membrane <sup>2</sup> . . . . .	21.6	20.7	25.2	33.0	22.2
Dysfunctional labor <sup>2</sup> . . . . .	28.5	28.1	28.0	37.5	35.0
Breech/Malpresentation . . . . .	38.5	39.8	31.9	35.2	37.8
Cephalopelvic disproportion <sup>2</sup> . . . . .	14.6	15.0	10.6	14.6	19.9
Fetal distress <sup>2,4</sup> . . . . .	38.1	36.4	47.2	34.8	38.4
Obstetric procedures					
Amniocentesis <sup>2</sup> . . . . .	17.4	18.0	10.6	10.8	27.4
Electronic fetal monitoring <sup>2</sup> . . . . .	854.2	855.1	862.1	861.7	817.6
Induction of labor . . . . .	206.0	216.6	174.0	198.8	140.0
Ultrasound <sup>2</sup> . . . . .	673.1	682.7	620.1	618.0	689.8
Stimulation of labor <sup>2</sup> . . . . .	167.5	169.1	155.5	162.1	177.9

<sup>1</sup>Includes births to Aleuts and Eskimos.<sup>2</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."<sup>3</sup>Texas does not report this risk factor.<sup>4</sup>Texas does not report this complication.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

[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 <sup>1</sup>	Origin of mother								
		Hispanic						Non-Hispanic		
		Total	Mexican	Puerto Rican	Cuban	Central and South American	Other and unknown Hispanic	Total <sup>2</sup>	White	Black
Medical risk factors		Number								
Anemia <sup>3</sup>	91,535	21,217	14,476	1,713	299	2,727	2,002	69,831	42,710	21,438
Diabetes	133,547	29,022	20,329	2,372	367	4,258	1,696	103,717	72,492	17,508
Hypertension, pregnancy-associated	152,268	23,569	15,982	1,847	479	3,576	1,685	127,766	98,511	23,229
Uterine bleeding <sup>3,4</sup>	18,494	2,697	1,525	241	42	454	435	15,691	12,565	2,143
Complications of labor and/or delivery		Number								
Meconium, moderate/heavy	197,865	48,400	34,326	3,088	453	7,949	2,584	148,180	98,960	36,727
Premature rupture of membrane <sup>3</sup>	83,103	14,667	9,897	1,151	215	2,367	1,037	67,889	48,231	13,985
Dysfunctional labor <sup>3</sup>	109,836	22,822	14,880	1,796	591	3,953	1,602	86,477	62,538	15,442
Breech/Malpresentation	156,804	26,967	18,008	2,122	595	4,470	1,772	128,684	101,192	18,166
Cephalopelvic disproportion <sup>3</sup>	56,111	9,239	6,479	646	140	1,439	535	46,495	36,034	5,901
Fetal distress <sup>3,5</sup>	132,377	19,509	11,896	1,922	360	4,028	1,303	112,108	79,272	24,346
Obstetric procedures		Number								
Amniocentesis <sup>3</sup>	66,901	7,831	3,934	843	305	2,075	674	58,579	46,892	5,763
Electronic fetal monitoring <sup>3</sup>	3,289,703	726,986	517,951	45,579	12,777	110,643	40,036	2,546,356	1,873,108	476,993
Induction of labor	840,137	125,518	84,986	9,564	2,864	18,105	9,999	709,690	571,669	100,473
Ultrasound <sup>3</sup>	2,592,258	537,689	371,064	35,760	9,561	87,677	33,627	2,040,502	1,537,340	341,764
Stimulation of labor <sup>3</sup>	645,075	131,642	91,306	9,797	1,590	22,064	6,885	510,148	382,310	85,797
Medical risk factors		Rate								
Anemia <sup>3</sup>	23.8	24.0	22.7	32.8	20.4	20.6	43.1	23.8	19.9	38.9
Diabetes	32.8	31.9	31.2	40.8	24.7	31.6	34.8	33.1	31.4	30.5
Hypertension, pregnancy-associated <sup>3</sup>	37.4	25.9	24.5	31.7	32.3	26.5	34.5	40.8	42.6	40.5
Uterine bleeding <sup>3,4</sup>	5.3	3.8	3.2	4.7	2.9	3.7	11.0	5.7	6.3	4.2
Complications of labor and/or delivery		Rate								
Meconium, moderate/heavy	48.6	53.2	52.5	53.0	30.5	58.8	52.9	47.2	42.8	63.9
Premature rupture of membrane <sup>3</sup>	21.6	16.5	15.5	22.0	14.7	17.8	22.3	23.1	22.5	25.3
Dysfunctional labor <sup>3</sup>	28.5	25.7	23.2	34.4	40.4	29.7	34.5	29.4	29.1	28.0
Breech/Malpresentation	38.5	29.6	27.6	36.4	40.1	33.1	36.4	41.1	43.8	31.6
Cephalopelvic disproportion <sup>3</sup>	14.6	10.4	10.1	12.4	9.6	10.8	11.5	15.8	16.8	10.7
Fetal distress <sup>3,5</sup>	38.1	27.7	25.0	37.6	25.2	32.8	33.1	40.9	39.4	47.6
Obstetric procedures		Rate								
Amniocentesis <sup>3</sup>	17.4	8.8	6.1	16.1	20.8	15.6	14.5	19.9	21.8	10.4
Electronic fetal monitoring <sup>3</sup>	854.2	819.6	808.6	872.4	872.7	831.2	861.2	866.0	871.2	862.8
Induction of labor	206.0	137.8	130.0	164.1	192.9	133.9	204.7	226.1	247.0	174.8
Ultrasound <sup>3</sup>	673.1	606.2	579.3	684.4	653.0	658.7	723.4	694.0	715.0	618.2
Stimulation of labor <sup>3</sup>	167.5	148.4	142.5	187.5	108.6	165.8	148.1	173.5	177.8	155.2

<sup>1</sup>Includes origin not stated.<sup>2</sup>Includes races other than white and black.<sup>3</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."<sup>4</sup>Texas does not report this risk factor.<sup>5</sup>Texas does not report this complication.

NOTES: Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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.

**Table 29. Number of live births by smoking status of mother, percentage smokers, and percent distribution by average number of cigarettes smoked by mothers per day, according to age and race of mother: Total of 47 reporting States and the District of Columbia, 2003**

Smoking status, smoking measure, and race of mother	Age of mother										
	All ages	Under 15 years	15–19 years							35–39 years	40–54 years
			Total	15–17 years	18–19 years	20–24 years	25–29 years	30–34 years			
Number											
All races <sup>1</sup>											
Total . . . . .	3,322,505	5,629	345,580	111,832	233,748	856,641	885,042	781,987	366,092	81,534	
Smoker . . . . .	354,586	297	53,056	13,289	39,767	137,255	82,482	50,173	24,890	6,433	
Nonsmoker . . . . .	2,948,476	5,296	290,759	97,957	192,802	714,848	797,511	726,854	338,777	74,431	
Not stated . . . . .	19,443	36	1,765	586	1,179	4,538	5,049	4,960	2,425	670	
White											
Total . . . . .	2,602,499	2,919	241,936	74,469	167,467	644,521	706,918	642,021	298,724	65,460	
Smoker . . . . .	301,069	241	45,649	11,252	34,397	117,011	69,662	42,757	20,568	5,181	
Nonsmoker . . . . .	2,285,689	2,661	194,980	62,795	132,185	523,983	633,134	595,112	276,101	59,718	
Not stated . . . . .	15,741	17	1,307	422	885	3,527	4,122	4,152	2,055	561	
Black											
Total . . . . .	541,427	2,506	91,881	33,516	58,365	178,617	126,098	87,215	44,107	11,003	
Smoker . . . . .	43,739	44	5,741	1,569	4,172	16,661	10,479	6,045	3,686	1,083	
Nonsmoker . . . . .	495,364	2,444	85,852	31,848	54,004	161,241	115,054	80,712	40,203	9,858	
Not stated . . . . .	2,324	18	288	99	189	715	565	458	218	62	
Percent smokers											
Total <sup>1</sup> . . . . .	10.7	5.3	15.4	11.9	17.1	16.1	9.4	6.5	6.8	8.0	
White . . . . .	11.6	8.3	19.0	15.2	20.6	18.3	9.9	6.7	6.9	8.0	
Black . . . . .	8.1	1.8	6.3	4.7	7.2	9.4	8.3	7.0	8.4	9.9	
Percent distribution <sup>2</sup>											
All races <sup>1</sup>											
Smoker . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1–5 cigarettes . . . . .	33.2	52.3	41.1	45.6	39.6	34.4	30.5	29.1	28.8	27.6	
6–10 cigarettes . . . . .	42.4	34.9	42.3	40.4	42.9	43.5	42.7	41.3	39.6	38.4	
11–15 cigarettes . . . . .	5.2	*	3.8	2.9	4.1	4.8	5.6	6.4	6.9	7.1	
16–20 cigarettes . . . . .	16.8	9.3	11.6	9.9	12.1	15.5	18.6	20.0	20.9	21.9	
21–30 cigarettes . . . . .	1.7	*	1.0	1.0	1.0	1.4	1.9	2.3	2.7	3.3	
31–40 cigarettes . . . . .	0.5	*	0.2	0.2	0.3	0.4	0.6	0.9	1.0	1.4	
41 cigarettes or more . . . . .	0.1	*	0.1	*	0.1	0.1	0.1	0.1	0.1	*	
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 . . . . .	30.0	47.8	37.5	41.5	36.1	30.7	27.4	26.5	26.0	24.2	
6–10 cigarettes . . . . .	43.7	37.8	44.5	43.4	44.9	45.2	43.6	41.6	39.5	38.5	
11–15 cigarettes . . . . .	5.7	*	4.1	3.2	4.4	5.2	6.1	6.9	7.5	7.9	
16–20 cigarettes . . . . .	18.1	11.0	12.5	10.7	13.1	16.9	20.1	21.4	22.7	23.8	
21–30 cigarettes . . . . .	1.8	*	1.1	1.0	1.1	1.5	2.1	2.5	3.1	3.8	
31–40 cigarettes . . . . .	0.6	*	0.3	0.2	0.3	0.4	0.6	0.9	1.1	1.6	
41 cigarettes or more . . . . .	0.1	*	0.1	*	0.1	0.1	0.1	0.1	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 . . . . .	52.8	73.7	66.1	70.6	64.5	56.8	48.9	44.7	41.8	42.7	
6–10 cigarettes . . . . .	34.5	*	26.1	22.3	27.6	32.8	36.9	38.9	40.0	37.9	
11–15 cigarettes . . . . .	2.5	*	1.6	1.6	1.7	2.1	2.7	3.2	4.1	3.7	
16–20 cigarettes . . . . .	8.9	*	5.2	4.7	5.4	7.4	10.1	11.6	12.5	14.0	
21–30 cigarettes . . . . .	0.8	*	0.6	*	0.5	0.6	0.9	1.0	1.0	*	
31–40 cigarettes . . . . .	0.3	*	*	*	*	0.2	0.4	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.

<sup>1</sup>Includes races other than white and black.<sup>2</sup>Excludes data for Indiana and New York State (but includes New York City), and South Dakota, which did not report average number of cigarettes smoked per day in standard categories.

NOTES: Excludes data for California, which did not require reporting of tobacco use during pregnancy. Also excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes." Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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 percentage 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 47 reporting States and the District of Columbia, 2003**

Origin of mother	Smoking status				Age of mother									
	Total births	Smoker	Non-smoker	Not stated	All ages	Under 15 years	15-19 years							
							Total	15-17 years	18-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-54 years
Percent smokers														
All origins <sup>1</sup> . . . . .	3,322,505	354,586	2,948,476	19,443	10.7	5.3	15.4	11.9	17.1	16.1	9.4	6.5	6.8	8.0
Hispanic . . . . .	618,472	16,401	599,698	2,373	2.7	1.8	3.3	2.8	3.6	3.3	2.2	1.9	2.2	2.7
Mexican . . . . .	405,131	8,231	395,286	1,614	2.0	2.0	2.4	2.0	2.7	2.5	1.6	1.5	1.8	2.1
Puerto Rican . . . . .	50,440	3,989	46,318	133	7.9	*	7.6	5.9	8.7	9.3	8.0	6.2	6.6	8.2
Cuban . . . . .	13,927	334	13,574	19	2.4	*	5.5	*	6.4	3.4	1.9	1.5	2.2	*
Central and South American . . . . .	107,826	1,158	106,399	269	1.1	*	1.5	1.3	1.7	1.3	1.0	0.8	1.0	1.3
Other and unknown Hispanic . . . . .	41,148	2,689	38,121	338	6.6	*	7.9	7.6	8.1	8.5	5.7	4.3	4.8	6.2
Non-Hispanic <sup>2</sup> . . . . .	2,685,341	335,794	2,333,575	15,972	12.6	6.9	19.7	15.9	21.5	19.7	11.0	7.2	7.6	8.7
White . . . . .	1,992,033	283,663	1,695,771	12,599	14.3	16.8	27.9	24.8	29.1	24.2	12.2	7.7	7.8	9.0
Black . . . . .	523,062	43,068	477,853	2,141	8.3	1.8	6.3	4.7	7.2	9.5	8.6	7.2	8.6	10.1

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

<sup>1</sup>Includes origin not stated.

<sup>2</sup>Includes races other than white and black.

NOTES: Excludes data for California, which did not require reporting of tobacco use during pregnancy. Also excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes." Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. In this table all women (including Hispanic women) are classified only according to their race; see "Technical Notes."

**Table 31. Number of live births, percentage of mothers who smoked cigarettes during pregnancy, and percent distribution by average number of cigarettes smoked by mothers per day, according to educational attainment and race and Hispanic origin of mother: Total of 47 reporting States and the District of Columbia, 2003**

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 <sup>1</sup>	3,322,505	175,122	498,587	1,012,812	709,728	885,116	41,140
White total <sup>2</sup>	2,602,499	154,199	362,569	756,306	552,072	747,611	29,742
Non-Hispanic white	1,992,033	32,235	202,124	578,389	472,654	689,864	16,767
Black total <sup>2</sup>	541,427	14,277	116,208	208,564	123,642	70,565	8,171
Non-Hispanic black	523,062	12,111	112,612	202,330	119,981	68,522	7,506
Hispanic <sup>3</sup>	618,472	124,347	163,545	182,241	81,246	56,079	11,014
Percent smokers							
Total	10.7	7.6	22.8	15.0	8.4	1.6	9.3
White total <sup>2</sup>	11.6	7.5	25.3	17.4	9.5	1.7	9.9
Non-Hispanic white	14.3	31.0	41.9	21.7	10.7	1.8	15.6
Black total <sup>2</sup>	8.1	9.2	16.2	7.9	4.6	1.2	9.1
Non-Hispanic black	8.3	10.5	16.5	8.1	4.7	1.2	9.3
Hispanic <sup>3</sup>	2.7	1.2	4.2	3.0	2.3	0.8	2.2
Percent distribution <sup>4</sup>							
All races <sup>1</sup>							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	75.7	70.5	75.6	75.3	77.0	80.5	75.7
11-20 cigarettes	22.0	25.7	21.8	22.5	21.1	18.0	22.0
21 cigarettes or more	2.3	3.8	2.6	2.2	1.9	1.5	2.3
White total <sup>2</sup>							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	73.7	68.5	72.9	73.4	75.6	79.8	74.0
11-20 cigarettes	23.8	27.4	24.2	24.2	22.4	18.6	23.4
21 cigarettes or more	2.5	4.0	2.9	2.4	2.1	1.5	2.6
Non-Hispanic white							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	73.0	65.5	71.7	72.9	75.2	79.6	73.2
11-20 cigarettes	24.4	30.1	25.2	24.7	22.7	18.8	24.0
21 cigarettes or more	2.6	4.5	3.0	2.4	2.1	1.6	2.8
Black total <sup>2</sup>							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	87.3	84.6	87.0	88.0	87.7	88.6	80.9
11-20 cigarettes	11.5	13.3	11.7	10.9	11.3	10.7	17.5
21 cigarettes or more	1.2	2.1	1.3	1.1	1.0	*	*
Non-Hispanic black							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	87.4	84.4	87.0	88.0	87.7	88.8	80.9
11-20 cigarettes	11.4	13.5	11.7	10.9	11.4	10.5	17.4
21 cigarettes or more	1.2	2.1	1.3	1.1	0.9	*	*
Hispanic <sup>3</sup>							
Smoker	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 cigarettes or less	86.7	88.4	87.2	86.4	85.3	86.1	83.1
11-20 cigarettes	12.2	10.3	11.6	12.8	13.5	13.4	16.3
21 cigarettes or more	1.0	*	1.2	0.7	1.2	*	*

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

<sup>1</sup>Includes races other than white and black and origin not stated.

<sup>2</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."

<sup>3</sup>Includes all persons of Hispanic origin of any race.

<sup>4</sup>Excludes data for Indiana, New York State (but includes New York City), and South Dakota, which did not report average number of cigarettes smoked per day in standard categories.

NOTES: Excludes data for California, which did not require reporting of tobacco use during pregnancy. Also excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."



**Table 32. Percentage low birthweight by smoking status, age, and race and Hispanic origin of mother: Total of 47 reporting States and the District of Columbia, 2003**

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

Smoking status 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					
<b>All races<sup>1</sup></b>										
Total . . . . .	8.2	13.0	10.0	10.8	9.7	8.3	7.3	7.6	8.9	11.4
Smoker . . . . .	12.4	12.2	11.8	12.8	11.5	11.1	11.9	13.8	17.4	20.7
Nonsmoker . . . . .	7.7	13.0	9.7	10.5	9.3	7.7	6.8	7.1	8.3	10.5
Not stated . . . . .	11.9	*	13.8	12.6	14.4	11.8	10.6	11.3	12.8	16.4
<b>White total<sup>2</sup></b>										
Total . . . . .	7.1	10.2	8.6	9.2	8.3	7.0	6.4	6.8	8.0	10.4
Smoker . . . . .	11.3	12.9	11.2	12.2	10.9	10.2	10.8	12.5	15.3	18.3
Nonsmoker . . . . .	6.5	9.8	7.9	8.7	7.5	6.2	5.9	6.3	7.4	9.7
Not stated . . . . .	10.9	*	12.8	11.2	13.6	10.5	10.0	10.4	11.6	15.6
<b>Non-Hispanic white</b>										
Total . . . . .	7.2	10.3	8.8	9.6	8.5	7.2	6.4	6.7	8.0	10.3
Smoker . . . . .	11.2	11.9	11.2	12.2	10.8	10.1	10.7	12.3	15.2	18.1
Nonsmoker . . . . .	6.5	9.9	7.8	8.8	7.5	6.2	5.8	6.2	7.3	9.5
Not stated . . . . .	11.0	*	14.4	12.6	15.1	10.5	10.0	10.2	12.0	15.9
<b>Black total<sup>2</sup></b>										
Total . . . . .	13.4	16.3	14.2	14.4	14.0	13.1	12.3	13.4	15.5	17.1
Smoker . . . . .	20.2	*	17.5	17.4	17.5	17.4	19.2	23.9	30.1	31.9
Nonsmoker . . . . .	12.8	16.4	13.9	14.2	13.7	12.6	11.7	12.6	14.2	15.4
Not stated . . . . .	19.1	*	17.7	*	17.2	18.5	15.4	22.3	22.9	*
<b>Non-Hispanic black</b>										
Total . . . . .	13.6	16.4	14.3	14.5	14.1	13.3	12.5	13.6	15.8	17.2
Smoker . . . . .	20.3	*	17.6	17.5	17.6	17.5	19.3	24.0	30.2	31.9
Nonsmoker . . . . .	13.0	16.4	14.0	14.3	13.8	12.8	11.8	12.8	14.4	15.6
Not stated . . . . .	18.9	*	17.8	*	17.3	18.5	15.5	21.7	22.4	*
<b>Hispanic<sup>3</sup></b>										
Total . . . . .	7.0	10.0	8.1	8.7	7.8	6.6	6.2	6.9	8.1	10.9
Smoker . . . . .	13.0	*	12.1	12.5	11.9	12.2	12.7	14.0	16.7	21.1
Nonsmoker . . . . .	6.8	9.7	8.0	8.6	7.6	6.4	6.1	6.8	7.9	10.6
Not stated . . . . .	9.7	*	8.7	*	*	9.0	8.9	10.8	11.0	*

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

<sup>1</sup>Includes races other than white and black and origin not stated.<sup>2</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>3</sup>Includes all persons of Hispanic origin of any race.

NOTES: Excludes data for California, which did not require reporting of tobacco use during pregnancy. Also excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."





**Table 34. Percentage of mothers beginning prenatal care in the first trimester and percentage of mothers with late or no prenatal care, by race and Hispanic origin of mother: United States, each State and territory, 2003**

[By place of residence]

State	Percent beginning care in first trimester						Percent late <sup>1</sup> or no care							
	All races <sup>2</sup>	White			Black			All races <sup>2</sup>	White			Black		
		Total <sup>3</sup>	Non-Hispanic	Hispanic <sup>4</sup>	Total <sup>3</sup>	Non-Hispanic	Hispanic <sup>4</sup>		Total <sup>3</sup>	Non-Hispanic	Hispanic <sup>4</sup>	Total <sup>3</sup>	Non-Hispanic	Hispanic <sup>4</sup>
United States <sup>5</sup>	84.1	85.7	89.0	75.9	75.9	77.5	3.5	3.0	2.1	6.0	6.0	5.3		
Alabama	83.8	87.3	90.0	75.7	75.7	52.0	3.5	3.0	1.6	4.8	4.8	21.6		
Alaska	79.8	83.7	82.9	81.8	81.0	79.6	5.2	4.7	5.1	*	*	5.2		
Arizona	76.6	76.9	88.0	76.0	79.5	66.7	7.3	7.3	2.7	8.2	5.5	11.1		
Arkansas	81.3	83.2	84.6	73.5	73.4	71.5	4.3	3.7	3.2	6.9	6.9	7.6		
California	87.3	87.4	90.8	84.1	84.1	85.2	2.5	2.5	1.8	3.2	3.2	3.0		
Colorado	79.3	79.8	86.1	70.9	70.7	67.0	4.4	4.3	2.8	6.8	6.8	7.4		
Connecticut	88.7	89.8	92.7	81.0	81.4	78.2	1.5	1.3	0.9	3.0	2.9	2.8		
Delaware	84.4	86.2	88.8	78.8	79.6	71.9	4.4	3.4	2.9	7.3	7.1	6.8		
District of Columbia	76.1	86.4	89.6	71.1	71.0	69.6	6.6	2.5	2.0	8.5	9.1	4.7		
Florida	85.8	88.1	90.1	77.9	77.8	84.2	2.8	2.3	1.8	4.8	4.8	3.1		
Georgia	84.0	86.2	90.5	79.1	79.1	69.1	3.8	3.3	2.0	4.8	4.8	8.3		
Hawaii	82.4	85.5	86.3	89.3	89.1	80.8	3.6	2.1	1.9	*	*	3.0		
Idaho	81.4	81.6	83.9	87.8	87.4	68.3	3.4	3.4	2.8	*	*	6.9		
Illinois	85.4	87.7	91.0	74.2	74.1	80.0	2.8	2.0	1.5	6.7	6.7	3.2		
Indiana	81.5	83.0	84.7	69.3	69.3	66.0	3.8	3.3	2.9	8.1	8.1	7.7		
Iowa	88.9	89.5	90.6	76.8	76.8	74.8	2.0	1.8	1.7	5.5	5.5	4.1		
Kansas	87.8	88.5	90.5	80.1	80.2	77.2	2.3	2.1	1.7	4.4	4.5	4.7		
Kentucky	87.0	87.7	88.2	80.7	80.7	74.0	2.6	2.4	2.2	4.8	4.8	6.4		
Louisiana	84.1	90.0	90.3	75.5	75.5	83.3	3.4	1.7	1.6	5.8	5.8	3.8		
Maine	87.5	87.9	87.9	74.9	75.6	80.7	1.7	1.6	1.6	*	*	*		
Maryland	83.7	88.7	91.0	74.6	75.3	70.1	3.9	2.3	1.8	6.7	6.7	6.4		
Massachusetts	90.0	91.4	92.4	81.5	80.3	83.9	2.0	1.6	1.4	5.2	6.0	2.6		
Michigan	86.1	89.0	89.8	72.8	72.7	77.6	3.1	2.2	2.0	7.3	7.4	4.7		
Minnesota	86.5	88.8	90.5	72.3	72.3	71.0	2.2	1.6	1.3	5.4	5.4	5.0		
Mississippi	84.9	90.7	91.0	77.8	77.8	79.6	2.9	1.6	1.5	4.4	4.4	6.9		
Missouri	88.4	89.7	90.2	81.0	80.9	81.0	2.2	1.8	1.6	4.4	4.4	3.9		
Montana	84.4	86.9	87.4	86.0	87.8	80.6	2.7	2.0	1.9	*	*	*		
Nebraska	83.4	84.4	86.9	72.7	72.8	69.8	2.8	2.6	2.0	3.8	3.6	6.3		
Nevada	75.8	75.8	84.6	70.7	70.6	64.1	6.4	6.3	3.4	8.6	8.8	9.9		
New Hampshire	92.8	93.0	93.4	85.1	85.5	84.4	1.1	1.0	0.9	*	*	*		
New Jersey	80.2	83.4	89.2	64.4	63.5	68.6	4.7	3.6	2.3	10.6	11.2	6.8		
New Mexico	68.9	70.2	77.0	68.7	69.1	66.2	8.1	7.5	5.0	5.9	5.5	9.1		
New York	82.4	85.2	88.6	73.1	72.8	76.2	4.5	3.5	2.7	8.3	8.5	5.5		
North Carolina	84.5	86.9	90.8	76.8	76.8	69.6	2.9	2.4	1.5	4.9	4.9	6.0		
North Dakota	87.3	89.7	90.0	85.2	84.8	79.5	2.7	1.9	1.8	*	*	*		
Ohio	87.7	89.3	89.8	78.8	78.8	79.0	3.0	2.4	2.3	6.1	6.1	4.6		
Oklahoma	77.8	79.6	82.0	69.8	69.8	65.5	4.8	4.2	3.8	7.1	7.1	6.7		
Oregon	81.2	81.5	84.5	78.0	77.6	70.0	4.0	3.9	3.3	5.5	5.6	6.2		
Pennsylvania <sup>6</sup>	76.0	79.2	80.4	57.2	57.4	61.2	5.6	4.5	4.2	12.6	12.7	8.8		
Rhode Island	90.9	92.2	93.5	82.8	82.1	86.9	1.1	1.0	0.9	2.3	2.2	1.4		
South Carolina	77.5	81.0	83.6	70.5	70.6	56.9	4.9	3.9	3.2	6.7	6.7	11.0		
South Dakota	78.4	82.8	83.4	64.8	65.5	64.0	3.9	2.2	2.0	*	*	9.4		
Tennessee	83.4	86.2	88.1	73.0	73.0	63.7	3.8	3.0	2.2	7.2	7.2	12.4		
Texas	80.9	81.1	88.4	77.0	77.0	75.5	4.7	4.7	2.5	5.5	5.5	6.3		
Utah	80.3	81.2	83.9	63.2	61.8	65.1	4.4	4.0	3.2	13.6	14.3	8.6		
Vermont	90.6	90.8	90.8	74.0	73.5	81.5	1.6	1.6	1.5	*	*	*		
Virginia	85.3	87.9	90.4	76.9	77.3	71.2	3.6	2.8	2.0	5.8	5.8	7.7		
Washington <sup>6</sup>	74.0	75.0	77.6	67.9	68.9	63.1	5.8	5.4	4.8	8.2	8.0	8.0		
West Virginia	85.8	86.2	86.4	73.5	73.5	69.3	2.3	2.3	2.2	3.7	3.8	*		
Wisconsin	84.9	86.9	88.5	73.6	73.7	70.7	3.1	2.6	2.3	6.4	6.3	5.9		
Wyoming	86.4	87.0	87.9	96.2	96.2	80.1	2.5	2.3	2.2	*	*	*		

See footnotes at end of table.

**Table 34. Percentage of mothers beginning prenatal care in the first trimester and percentage of mothers with late or no prenatal care, by race and Hispanic origin of mother: United States, each State and territory, 2003—Con.**

[By place of residence]

State	Percent beginning care in first trimester						Percent late <sup>1</sup> or no care					
	All races <sup>2</sup>	White		Black		Hispanic <sup>4</sup>	All races <sup>2</sup>	White		Black		Hispanic <sup>4</sup>
		Total <sup>3</sup>	Non-Hispanic	Total <sup>3</sup>	Non-Hispanic			Total <sup>3</sup>	Non-Hispanic	Total <sup>3</sup>	Non-Hispanic	
Puerto Rico . . . . .	82.4	83.2	---	74.7	---	---	2.6	2.4	---	4.6	---	---
Virgin Islands . . . . .	63.4	71.1	76.0	60.8	60.5	65.8	11.4	8.3	*	12.5	12.4	9.4
Guam . . . . .	62.2	87.2	86.7	89.7	91.4	87.0	12.0	*	*	*	*	*
American Samoa . . . . .	---	---	---	---	---	---	---	---	---	---	---	---
Northern Marianas . . . . .	29.9	*	---	*	---	---	27.8	*	---	*	---	---

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

--- Data not available.

<sup>1</sup>Care beginning in 3d trimester.<sup>2</sup>Includes races other than white and black and origin not stated.<sup>3</sup>Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. California, Hawaii, Ohio (for December), Pennsylvania, Utah, and Washington reported multiple-race data in 2003. The multiple-race data for these States were bridged to the single-race categories of the 1977 Office of Management and Budget standards for comparability with other States; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>4</sup>Includes all persons of Hispanic origin of any race.<sup>5</sup>Excludes data for the territories. Also excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."<sup>6</sup>Levels for Pennsylvania and Washington are not comparable with those of other states; see "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: Total of 48 States and the District of Columbia, 2003**

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 <sup>2</sup>	3,863,502	3,189,794	2,475,340	714,454	469,649	134,057	94,601	39,456	70,002
No visits	39,537	...	...	...	...	39,456	...	39,456	81
1–2 visits	37,687	10,642	7,193	3,449	8,987	16,836	16,836	...	1,222
3–4 visits	76,376	24,488	14,677	9,811	26,761	23,485	23,485	...	1,642
5–6 visits	168,879	75,954	45,404	30,550	67,135	23,319	23,319	...	2,471
7–8 visits	321,019	202,657	127,146	75,511	101,612	13,504	13,504	...	3,246
9–10 visits	767,280	622,517	430,248	192,269	130,441	8,130	8,130	...	6,192
11–12 visits	1,027,397	943,826	733,402	210,424	75,703	3,470	3,470	...	4,398
13–14 visits	640,635	609,678	507,357	102,321	26,999	1,576	1,576	...	2,382
15–16 visits	453,807	434,410	379,868	54,542	16,884	1,138	1,138	...	1,375
17–18 visits	98,043	93,962	81,341	12,621	3,367	296	296	...	418
19 visits or more	139,116	132,828	118,201	14,627	5,233	437	437	...	618
Not stated	93,726	38,832	30,503	8,329	6,527	2,410	2,410	...	45,957
Median number of visits	12.3	12.6	12.8	11.5	9.6	5.5	5.5	...	10.3
White total <sup>3</sup>	3,040,873	2,562,458	2,001,335	561,123	336,407	91,183	65,011	26,172	50,825
No visits	26,242	...	...	...	...	26,172	...	26,172	70
1–2 visits	24,920	7,418	5,110	2,308	5,614	11,031	11,031	...	857
3–4 visits	50,620	16,595	10,083	6,512	17,072	15,778	15,778	...	1,175
5–6 visits	117,974	54,079	32,260	21,819	45,963	16,173	16,173	...	1,759
7–8 visits	239,346	154,402	97,266	57,136	72,903	9,546	9,546	...	2,495
9–10 visits	594,969	490,312	340,664	149,648	94,878	5,811	5,811	...	3,968
11–12 visits	832,463	769,803	600,818	168,985	56,462	2,604	2,604	...	3,594
13–14 visits	526,824	503,244	419,726	83,518	20,419	1,188	1,188	...	1,973
15–16 visits	367,482	353,012	309,187	43,825	12,505	818	818	...	1,147
17–18 visits	79,797	76,824	66,915	9,909	2,416	221	221	...	336
19 visits or more	111,978	107,482	96,135	11,347	3,681	317	317	...	498
Not stated	68,258	29,287	23,171	6,116	4,494	1,524	1,524	...	32,953
Median number of visits	12.3	12.6	12.8	11.6	9.7	5.6	5.6	...	10.5
Non-Hispanic white	2,158,797	1,892,768	1,501,689	391,079	189,306	45,721	33,333	12,388	31,002
No visits	12,449	...	...	...	...	12,388	...	12,388	61
1–2 visits	12,474	3,898	2,772	1,126	2,679	5,407	5,407	...	490
3–4 visits	26,664	9,845	6,145	3,700	8,570	7,597	7,597	...	652
5–6 visits	67,295	34,393	21,438	12,955	23,704	8,086	8,086	...	1,112
7–8 visits	151,199	104,571	67,779	36,792	39,918	5,081	5,081	...	1,629
9–10 visits	406,077	346,412	245,705	100,707	53,617	3,251	3,251	...	2,797
11–12 visits	627,661	588,479	464,577	123,902	34,862	1,596	1,596	...	2,724
13–14 visits	402,527	387,025	324,008	63,017	13,209	731	731	...	1,562
15–16 visits	267,029	258,718	228,341	30,377	6,974	450	450	...	887
17–18 visits	62,221	60,218	52,488	7,730	1,618	120	120	...	265
19 visits or more	86,458	83,593	75,594	7,999	2,298	201	201	...	366
Not stated	36,743	15,616	12,842	2,774	1,857	813	813	...	18,457
Median number of visits	12.5	12.6	12.8	11.9	9.9	5.8	5.8	...	10.8
Black total <sup>3</sup>	573,776	425,303	318,287	107,016	101,347	33,528	22,089	11,439	13,598
No visits	11,447	...	...	...	...	11,439	...	11,439	8
1–2 visits	10,054	2,507	1,584	923	2,774	4,486	4,486	...	287
3–4 visits	20,020	6,183	3,593	2,590	7,578	5,919	5,919	...	340
5–6 visits	37,971	15,983	9,640	6,343	16,076	5,370	5,370	...	542
7–8 visits	57,620	32,639	19,993	12,646	21,569	2,883	2,883	...	529
9–10 visits	120,374	90,069	60,430	29,639	26,782	1,679	1,679	...	1,844
11–12 visits	126,893	111,531	83,781	27,750	14,315	546	546	...	501
13–14 visits	76,350	70,948	58,028	12,920	4,912	228	228	...	262
15–16 visits	60,834	56,904	49,134	7,770	3,560	210	210	...	160
17–18 visits	12,817	11,958	9,908	2,050	756	51	51	...	52
19 visits or more	20,370	18,895	16,318	2,577	1,285	92	92	...	98
Not stated	19,026	7,686	5,878	1,808	1,740	625	625	...	8,975
Median number of visits	11.7	12.4	12.6	11.0	9.2	5.1	5.1	...	10.1

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: Total of 48 States and the District of Columbia, 2003—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	
Non-Hispanic black . . . . .	553,987	411,013	307,917	103,096	97,826	32,406	21,258	11,148	12,742
No visits . . . . .	11,156	...	...	...	...	11,148	...	11,148	8
1–2 visits . . . . .	9,745	2,427	1,541	886	2,697	4,342	4,342	...	279
3–4 visits . . . . .	19,441	6,019	3,492	2,527	7,369	5,731	5,731	...	322
5–6 visits . . . . .	36,638	15,427	9,301	6,126	15,538	5,157	5,157	...	516
7–8 visits . . . . .	55,410	31,403	19,266	12,137	20,745	2,754	2,754	...	508
9–10 visits . . . . .	115,300	86,443	58,007	28,436	25,743	1,605	1,605	...	1,509
11–12 visits . . . . .	122,353	107,542	80,807	26,735	13,824	519	519	...	468
13–14 visits . . . . .	73,892	68,710	56,272	12,438	4,729	212	212	...	241
15–16 visits . . . . .	59,256	55,431	47,899	7,532	3,481	197	197	...	147
17–18 visits . . . . .	12,506	11,670	9,662	2,008	741	45	45	...	50
19 visits or more . . . . .	19,934	18,492	15,968	2,524	1,261	89	89	...	92
Not stated . . . . .	18,356	7,449	5,702	1,747	1,698	607	607	...	8,602
Median number of visits . . . . .	11.7	12.4	12.6	11.1	9.2	5.1	5.1	...	10.0
Hispanic <sup>4</sup> . . . . .	888,177	673,271	501,115	172,156	150,083	45,894	32,179	13,715	18,929
No visits . . . . .	13,722	...	...	...	...	13,715	...	13,715	7
1–2 visits . . . . .	12,659	3,573	2,363	1,210	2,992	5,727	5,727	...	367
3–4 visits . . . . .	24,428	6,838	3,984	2,854	8,705	8,368	8,368	...	517
5–6 visits . . . . .	51,848	20,127	11,068	9,059	22,778	8,292	8,292	...	651
7–8 visits . . . . .	89,820	50,603	29,921	20,682	33,781	4,572	4,572	...	864
9–10 visits . . . . .	192,173	145,849	96,151	49,698	42,266	2,597	2,597	...	1,461
11–12 visits . . . . .	205,724	181,967	136,392	45,575	21,903	989	989	...	865
13–14 visits . . . . .	124,882	116,700	95,969	20,731	7,320	443	443	...	419
15–16 visits . . . . .	100,162	94,047	80,550	13,497	5,511	334	334	...	270
17–18 visits . . . . .	17,489	16,537	14,353	2,184	804	76	76	...	72
19 visits or more . . . . .	25,109	23,479	20,155	3,324	1,398	96	96	...	136
Not stated . . . . .	30,161	13,551	10,209	3,342	2,625	685	685	...	13,300
Median number of visits . . . . .	11.8	12.4	12.7	11.1	9.4	5.4	5.4	...	9.9

... Category not applicable.

<sup>1</sup>Births occurring in Pennsylvania and Washington to residents of all other reporting areas are categorized as not stated.<sup>2</sup>Includes races other than white and black and origin not stated.<sup>3</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>4</sup>Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between prenatal care data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."

**Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 2003**

[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 <sup>1</sup>	Obstetric procedure reported	Age of mother							Not stated <sup>2</sup>
			All ages	Under 20 years	20–24 years	25–29 years	30–34 years	35–39 years	40–54 years	
All races <sup>3</sup>										
Amniocentesis <sup>4</sup> . . . . .	3,863,502	66,901	17.4	4.8	5.8	7.7	13.2	66.8	101.3	12,272
Electronic fetal monitoring <sup>4</sup> . . . . .	3,863,502	3,289,703	854.2	866.6	862.5	856.6	848.3	837.8	825.6	12,272
Induction of labor . . . . .	4,089,950	840,137	206.0	203.2	210.2	213.9	203.7	190.7	184.4	12,294
Stimulation of labor <sup>4</sup> . . . . .	3,863,502	645,075	167.5	186.9	175.5	170.6	160.9	146.2	132.6	12,272
Tocolysis . . . . .	4,089,950	85,961	21.1	23.7	22.7	21.0	19.7	18.7	19.0	12,348
Ultrasound <sup>4</sup> . . . . .	3,863,502	2,592,258	673.1	639.6	658.2	676.2	689.2	693.2	686.2	12,272
White										
Amniocentesis <sup>4</sup> . . . . .	3,040,873	54,686	18.0	5.0	5.9	7.7	13.3	68.4	105.8	10,235
Electronic fetal monitoring <sup>4</sup> . . . . .	3,040,873	2,591,505	855.1	865.3	862.7	858.1	850.6	839.9	826.6	10,235
Induction of labor . . . . .	3,225,848	696,703	216.6	213.8	222.2	224.9	213.7	199.7	192.6	9,491
Stimulation of labor <sup>4</sup> . . . . .	3,040,873	512,549	169.1	191.0	178.8	171.6	161.9	148.2	134.0	10,235
Tocolysis . . . . .	3,225,848	68,200	21.2	24.2	22.9	21.3	19.8	18.6	18.8	9,538
Ultrasound <sup>4</sup> . . . . .	3,040,873	2,069,050	682.7	652.8	670.5	684.2	695.7	699.9	692.2	10,235
Black										
Amniocentesis <sup>4</sup> . . . . .	573,776	6,092	10.6	4.1	5.5	7.1	11.0	40.8	62.3	1,248
Electronic fetal monitoring <sup>4</sup> . . . . .	573,776	493,605	862.1	874.6	868.1	860.1	853.4	842.3	836.5	1,248
Induction of labor . . . . .	599,847	104,123	174.0	180.1	174.3	176.4	171.1	161.8	162.4	1,382
Stimulation of labor <sup>4</sup> . . . . .	573,776	89,024	155.5	175.7	162.7	154.8	141.2	124.9	117.5	1,248
Tocolysis . . . . .	599,847	12,651	21.1	21.2	21.5	20.7	21.4	20.7	19.8	1,377
Ultrasound <sup>4</sup> . . . . .	573,776	355,001	620.1	602.2	610.7	625.6	635.5	642.5	641.8	1,248

<sup>1</sup>Total number of births to residents of areas reporting specified obstetric procedures.<sup>2</sup>No response reported for the obstetric procedures item.<sup>3</sup>Includes races other than white and black.<sup>4</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."

NOTES: Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. 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 or delivery and rates by age of mother, by race of mother: United States, 2003**

[Rates are number of live births with specified complication per 1,000 live births in specified group]

Complication and race of mother	All births <sup>1</sup>	Complication reported	Age of mother							Not stated <sup>2</sup>
			All ages	Under 20 years	20–24 years	25–29 years	30–34 years	35–39 years	40–54 years	
All races <sup>3</sup>										
Febrile <sup>4</sup>	3,863,502	59,787	15.5	20.5	16.2	15.6	14.7	12.3	10.6	15,296
Meconium, moderate/heavy	4,089,950	197,865	48.6	55.2	49.7	47.7	46.3	46.9	47.4	15,320
Premature rupture of membrane <sup>4</sup>	3,863,502	83,103	21.6	22.3	20.5	20.6	22.1	23.2	27.0	15,296
Abruptio placenta <sup>4</sup>	3,863,502	20,386	5.3	5.2	5.1	4.8	5.4	6.2	8.0	15,296
Placenta previa <sup>4</sup>	3,863,502	12,953	3.4	1.1	1.8	2.8	4.5	6.5	9.2	15,296
Other excessive bleeding <sup>4</sup>	3,863,502	22,787	5.9	5.8	5.6	5.7	6.0	6.6	8.4	15,296
Seizures during labor <sup>4</sup>	3,863,502	1,304	0.3	0.8	0.4	0.3	0.2	0.3	0.2	15,296
Precipitous labor	4,089,950	74,807	18.4	12.8	17.5	18.3	19.9	21.5	21.3	15,471
Prolonged labor <sup>4</sup>	3,863,502	26,130	6.8	7.8	6.7	6.7	6.7	6.3	7.1	15,296
Dysfunctional labor <sup>4</sup>	3,863,502	109,836	28.5	29.8	27.3	27.9	28.8	30.2	32.8	15,296
Breech/Malpresentation	4,089,950	156,804	38.5	27.8	30.7	37.5	44.5	51.0	58.8	19,563
Cephalopelvic disproportion <sup>4</sup>	3,863,502	56,111	14.6	15.9	13.8	14.5	15.0	14.3	15.0	15,296
Cord prolapse <sup>4</sup>	3,863,502	6,385	1.7	1.3	1.6	1.6	1.7	2.0	2.2	15,296
Anesthetic complication <sup>4,5</sup>	3,486,026	2,415	0.7	0.5	0.6	0.7	0.8	0.9	1.0	15,253
Fetal distress <sup>4,5</sup>	3,486,026	132,377	38.1	44.1	37.8	36.2	36.8	39.0	45.8	15,253
White										
Febrile <sup>4</sup>	3,040,873	45,331	15.0	20.1	16.1	15.1	13.8	11.7	10.0	12,584
Meconium, moderate/heavy	3,225,848	146,301	45.5	51.2	46.6	44.7	43.7	44.4	45.2	11,842
Premature rupture of membrane <sup>4</sup>	3,040,873	62,759	20.7	20.9	19.4	20.0	21.4	22.4	26.5	12,584
Abruptio placenta <sup>4</sup>	3,040,873	15,392	5.1	4.9	4.8	4.6	5.2	5.9	8.0	12,584
Placenta previa <sup>4</sup>	3,040,873	10,072	3.3	1.1	1.7	2.8	4.4	6.1	8.6	12,584
Other excessive bleeding <sup>4</sup>	3,040,873	17,939	5.9	6.1	5.7	5.7	5.9	6.4	8.1	12,584
Seizures during labor <sup>4</sup>	3,040,873	938	0.3	0.7	0.3	0.2	0.2	0.3	0.3	12,584
Precipitous labor	3,225,848	57,757	18.0	11.8	16.6	17.8	19.8	21.6	21.7	11,960
Prolonged labor <sup>4</sup>	3,040,873	20,972	6.9	8.1	7.0	6.8	6.7	6.3	7.4	12,584
Dysfunctional labor <sup>4</sup>	3,040,873	85,039	28.1	29.6	27.2	27.4	28.0	29.5	32.2	12,584
Breech/Malpresentation	3,225,848	127,933	39.8	29.3	31.7	38.5	45.7	51.8	59.4	15,418
Cephalopelvic disproportion <sup>4</sup>	3,040,873	45,314	15.0	16.6	14.6	14.9	15.0	14.3	15.1	12,584
Cord prolapse <sup>4</sup>	3,040,873	4,881	1.6	1.2	1.5	1.6	1.7	2.0	2.2	12,584
Anesthetic complication <sup>4,5</sup>	2,719,331	1,937	0.7	0.5	0.6	0.7	0.8	1.0	0.9	12,553
Fetal distress <sup>4,5</sup>	2,719,331	98,501	36.4	42.0	36.1	34.6	35.3	37.3	44.4	12,553
Black										
Febrile <sup>4</sup>	573,776	8,666	15.1	21.6	15.4	13.2	13.0	11.8	8.7	1,669
Meconium, moderate/heavy	599,847	38,349	64.1	67.5	61.7	63.1	66.2	65.7	63.7	1,803
Premature rupture of membrane <sup>4</sup>	573,776	14,401	25.2	25.1	24.0	23.5	27.1	29.8	30.3	1,669
Abruptio placenta <sup>4</sup>	573,776	3,892	6.8	6.3	6.3	6.3	7.7	8.7	9.7	1,669
Placenta previa <sup>4</sup>	573,776	1,680	2.9	1.1	1.7	2.9	4.4	7.4	9.0	1,669
Other excessive bleeding <sup>4</sup>	573,776	2,657	4.6	3.9	4.0	4.6	5.4	6.5	8.0	1,669
Seizures during labor <sup>4</sup>	573,776	288	0.5	0.9	0.5	0.3	0.3	0.5	*	1,669
Precipitous labor	599,847	11,818	19.8	14.6	20.0	21.5	21.7	20.8	20.2	1,815
Prolonged labor <sup>4</sup>	573,776	3,006	5.3	6.2	5.1	4.8	5.5	4.9	5.1	1,669
Dysfunctional labor <sup>4</sup>	573,776	16,027	28.0	29.5	26.4	27.0	29.3	31.4	29.8	1,669
Breech/Malpresentation	599,847	19,075	31.9	23.2	26.7	32.6	39.4	48.0	54.3	1,987
Cephalopelvic disproportion <sup>4</sup>	573,776	6,074	10.6	13.7	10.2	9.4	10.4	9.4	11.2	1,669
Cord prolapse <sup>4</sup>	573,776	1,119	2.0	1.7	1.7	2.0	2.3	2.5	2.4	1,669
Anesthetic complication <sup>4,5</sup>	531,891	312	0.6	0.5	0.5	0.6	0.7	0.6	*	1,660
Fetal distress <sup>4,5</sup>	531,891	25,049	47.2	50.8	45.0	44.6	48.1	51.5	58.7	1,660

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

<sup>1</sup>Total number of births to residents of areas reporting specified complication.<sup>2</sup>No response reported for the complications item.<sup>3</sup>Includes races other than white and black.<sup>4</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."<sup>5</sup>Texas does not report this complication.

NOTES: Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

Place of delivery and race and Hispanic origin of mother	All births	Physician			Midwife				Unspecified
		Total	Doctor of medicine	Doctor of osteopathy	Total	Certified nurse midwife	Other midwife	Other	
<b>All races<sup>1</sup></b>									
Total . . . . .	4,089,950	3,733,750	3,554,819	178,931	328,153	310,342	17,811	20,599	7,448
In hospital <sup>2</sup> . . . . .	4,053,987	3,730,008	3,551,650	178,358	305,513	300,931	4,582	11,535	6,931
Not in hospital . . . . .	35,723	3,622	3,049	573	22,588	9,362	13,226	9,015	498
Freestanding birthing center . . . . .	9,779	923	611	312	8,664	5,828	2,836	185	7
Clinic or doctor's office . . . . .	397	225	196	29	108	57	51	62	2
Residence . . . . .	23,221	1,813	1,613	200	13,403	3,272	10,131	7,631	374
Other . . . . .	2,326	661	629	32	413	205	208	1,137	115
Not specified . . . . .	240	120	120	–	52	49	3	49	19
<b>White total<sup>3</sup></b>									
Total . . . . .	3,225,848	2,940,517	2,787,768	152,749	262,462	246,108	16,354	16,513	6,356
In hospital <sup>2</sup> . . . . .	3,193,825	2,937,737	2,785,519	152,218	241,079	237,436	3,643	9,034	5,975
Not in hospital . . . . .	31,829	2,681	2,150	531	21,335	8,626	12,709	7,445	368
Freestanding birthing center . . . . .	9,096	908	597	311	8,021	5,337	2,684	160	7
Clinic or doctor's office . . . . .	334	191	167	24	96	51	45	46	1
Residence . . . . .	20,698	1,193	1,018	175	12,860	3,082	9,778	6,356	289
Other . . . . .	1,701	389	368	21	358	156	202	883	71
Not specified . . . . .	194	99	99	–	48	46	2	34	13
<b>Non-Hispanic white</b>									
Total . . . . .	2,321,904	2,126,099	2,005,392	120,707	177,765	163,709	14,056	12,336	5,704
In hospital <sup>2</sup> . . . . .	2,293,934	2,123,733	2,003,534	120,199	158,723	156,009	2,714	6,013	5,465
Not in hospital . . . . .	27,836	2,294	1,786	508	19,008	7,668	11,340	6,299	235
Freestanding birthing center . . . . .	7,723	880	572	308	6,697	4,607	2,090	139	7
Clinic or doctor's office . . . . .	289	168	145	23	82	44	38	38	1
Residence . . . . .	18,556	981	817	164	11,917	2,897	9,020	5,455	203
Other . . . . .	1,268	265	252	13	312	120	192	667	24
Not specified . . . . .	134	72	72	–	34	32	2	24	4
<b>Black total<sup>3</sup></b>									
Total . . . . .	599,847	552,884	534,344	18,540	43,433	42,539	894	2,726	804
In hospital <sup>2</sup> . . . . .	597,024	552,099	533,587	18,512	42,708	42,063	645	1,502	715
Not in hospital . . . . .	2,788	769	741	28	723	474	249	1,212	84
Freestanding birthing center . . . . .	430	6	5	1	406	316	90	18	–
Clinic or doctor's office . . . . .	18	11	10	1	5	3	2	2	–
Residence . . . . .	1,883	533	515	18	280	125	155	1,016	54
Other . . . . .	457	219	211	8	32	30	2	176	30
Not specified . . . . .	35	16	16	–	2	2	–	12	5
<b>Non-Hispanic black</b>									
Total . . . . .	576,033	531,655	513,916	17,739	41,055	40,226	829	2,609	714
In hospital <sup>2</sup> . . . . .	573,347	530,913	513,201	17,712	40,376	39,783	593	1,427	631
Not in hospital . . . . .	2,661	729	702	27	678	442	236	1,175	79
Freestanding birthing center . . . . .	408	5	4	1	386	299	87	17	–
Clinic or doctor's office . . . . .	17	10	10	–	5	3	2	2	–
Residence . . . . .	1,803	503	485	18	257	112	145	993	50
Other . . . . .	433	211	203	8	30	28	2	163	29
Not specified . . . . .	25	13	13	–	1	1	–	7	4
<b>Hispanic<sup>4</sup></b>									
Total . . . . .	912,329	822,611	790,349	32,262	85,070	82,968	2,102	3,975	673
In hospital <sup>2</sup> . . . . .	908,745	822,205	789,967	32,238	82,940	82,078	862	3,032	568
Not in hospital . . . . .	3,549	390	366	24	2,116	876	1,240	939	104
Freestanding birthing center . . . . .	1,341	29	26	3	1,291	692	599	21	–
Clinic or doctor's office . . . . .	40	19	17	2	12	4	8	9	–
Residence . . . . .	1,753	216	205	11	771	143	628	696	70
Other . . . . .	415	126	118	8	42	37	5	213	34
Not specified . . . . .	35	16	16	–	14	14	–	4	1

– Quantity zero. <sup>1</sup>Includes races other than white and black and origin not stated.<sup>2</sup>Includes births occurring en route to or on arrival at hospital.<sup>3</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>4</sup>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, 1989–2003**

Year and race and Hispanic origin of mother	Births by method of delivery							Cesarean delivery rate		Rate of vaginal birth after previous cesarean <sup>5</sup>
	All births	Vaginal		Cesarean			Not stated	Total <sup>3</sup>	Primary <sup>4</sup>	
		Total <sup>1</sup>	After previous cesarean	Total <sup>2</sup>	Primary	Repeat				
<b>All races<sup>6</sup></b>										
2003	4,089,950	2,949,853	51,602	1,119,388	684,484	434,699	20,709	27.5	19.1	10.6
2002	4,021,726	2,958,423	59,248	1,043,846	634,426	409,420	19,457	26.1	18.0	12.6
2001	4,025,933	3,027,993	74,048	978,411	601,383	377,028	19,529	24.4	16.9	16.4
2000	4,058,814	3,108,188	89,978	923,991	577,638	346,353	26,635	22.9	16.1	20.6
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	3,087,537	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 <sup>7</sup>	4,110,563	3,111,421	84,299	914,096	575,066	339,030	85,046	22.7	16.0	19.9
1989 <sup>8</sup>	3,798,734	2,793,463	71,019	826,955	521,873	305,082	178,316	22.8	16.1	18.9
<b>White total<sup>9</sup></b>										
2003	3,225,848	2,332,605	39,696	876,595	531,486	344,954	16,648	27.3	18.8	10.3
2002	3,174,760	2,340,512	46,004	818,347	493,002	325,345	15,901	25.9	17.7	12.4
2001	3,177,626	2,394,930	58,053	766,771	467,285	299,486	15,925	24.3	16.7	16.2
2000	3,194,005	2,449,264	70,414	723,209	449,161	274,048	21,532	22.8	15.9	20.4
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 <sup>7</sup>	3,252,473	2,453,857	67,191	732,713	458,656	274,057	65,903	23.0	16.1	19.7
1989 <sup>8</sup>	3,022,537	2,212,843	56,851	667,114	418,177	248,937	142,580	23.2	16.2	18.6
<b>Non-Hispanic white</b>										
2003	2,321,904	1,671,414	28,751	637,482	398,368	238,990	13,008	27.6	19.5	10.7
2002	2,298,156	1,687,144	33,440	598,682	370,339	228,343	12,330	26.2	18.3	12.8
2001	2,326,578	1,746,551	43,215	567,488	353,977	213,511	12,539	24.5	17.2	16.8
2000	2,362,968	1,804,550	52,912	540,794	342,732	198,062	17,624	23.1	16.4	21.1
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 <sup>10</sup>	2,527,207	1,916,414	63,828	566,788	352,470	214,318	44,005	22.8	16.0	22.9
1991 <sup>10</sup>	2,589,878	1,941,726	60,174	587,802	368,721	219,081	60,350	23.2	16.4	21.5
1990 <sup>7,11</sup>	2,626,500	1,972,754	55,952	603,467	378,508	224,959	50,279	23.4	16.5	19.9
1989 <sup>8,11</sup>	2,526,367	1,806,753	47,559	556,585	349,858	206,727	163,029	23.6	16.6	18.7

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, 1989–2003—Con.**

Year and race and Hispanic origin of mother	Births by method of delivery							Cesarean delivery rate		Rate of vaginal birth after previous cesarean <sup>5</sup>
	All births	Vaginal			Cesarean			Total <sup>3</sup>	Primary <sup>4</sup>	
		Total <sup>1</sup>	After previous cesarean	Total <sup>2</sup>	Primary	Repeat	Not stated			
<b>Black total<sup>9</sup></b>										
2003	599,847	423,033	8,484	173,834	107,603	66,217	2,980	29.1	20.6	11.4
2002	593,691	427,801	9,567	163,295	100,621	62,674	2,595	27.6	19.4	13.2
2001	606,156	447,458	11,747	156,071	97,429	58,642	2,627	25.9	18.3	16.7
2000	622,598	468,497	14,382	150,401	94,767	55,634	3,700	24.3	17.3	20.5
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 <sup>7</sup>	679,236	516,581	13,496	146,472	93,476	52,996	16,183	22.1	15.7	20.3
1989 <sup>8</sup>	611,147	452,921	11,104	127,907	82,695	45,212	30,319	22.0	15.8	19.7
<b>Non-Hispanic black</b>										
2003	576,033	405,671	8,109	167,506	103,694	63,802	2,856	29.2	20.7	11.3
2002	578,335	416,516	9,317	159,297	98,245	61,052	2,522	27.7	19.4	13.2
2001	589,917	435,455	11,417	151,908	94,912	56,996	2,554	25.9	18.3	16.7
2000	604,346	454,736	13,910	146,042	92,044	53,998	3,568	24.3	17.3	20.5
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 <sup>10</sup>	657,450	502,669	14,950	143,153	91,086	52,067	11,628	22.2	15.7	22.3
1991 <sup>10</sup>	666,758	507,522	13,847	142,417	90,664	51,753	16,819	21.9	15.5	21.1
1990 <sup>7,11</sup>	661,701	503,720	13,157	142,838	91,175	51,663	15,143	22.1	15.7	20.3
1989 <sup>8,12</sup>	611,269	440,310	10,726	125,290	81,177	44,113	45,669	22.2	15.9	19.6
<b>Hispanic<sup>13</sup></b>										
2003	912,329	667,656	11,153	241,159	134,231	106,912	3,514	26.5	17.0	9.4
2002	876,642	653,516	12,610	219,777	122,603	97,174	3,349	25.2	16.1	11.5
2001	851,851	648,821	14,846	199,874	113,529	86,345	3,156	23.6	15.2	14.7
2000	815,868	633,220	17,062	179,583	104,597	74,986	3,065	22.1	14.5	18.5
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 <sup>10</sup>	643,271	494,338	13,111	133,369	81,211	52,158	15,564	21.2	14.4	20.1
1991 <sup>10</sup>	623,085	472,126	11,615	129,752	80,228	49,524	21,207	21.6	14.8	19.0
1990 <sup>7,11</sup>	595,073	458,242	10,395	122,969	76,027	46,942	13,862	21.2	14.5	18.1
1989 <sup>8,12</sup>	532,249	385,462	8,549	105,268	64,905	40,363	41,519	21.5	14.7	17.5

<sup>1</sup>For 2003 includes unknown type of vaginal delivery; see "Technical Notes."<sup>2</sup>For 2003 includes unknown type of cesarean delivery; see "Technical Notes."<sup>3</sup>Percent of all live births by cesarean delivery.<sup>4</sup>Number of primary cesareans per 100 live births to women who have not had a previous cesarean.<sup>5</sup>Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.<sup>6</sup>Includes races other than white and black and origin not stated.<sup>7</sup>Excludes data for Oklahoma, which did not report method of delivery on the birth certificate.<sup>8</sup>Excludes data for Louisiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.<sup>9</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>10</sup>Excludes data for New Hampshire, which did not report Hispanic origin.<sup>11</sup>Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.<sup>12</sup>Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.<sup>13</sup>Includes all persons of Hispanic origin of any race.

**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, 2003**

Age and race and Hispanic origin of mother	Births by method of delivery							Cesarean delivery rate		Rate of vaginal birth after previous cesarean <sup>5</sup>
	All births	Vaginal			Cesarean			Total <sup>3</sup>	Primary <sup>4</sup>	
		Total <sup>1</sup>	After previous cesarean	Total <sup>2</sup>	Primary	Repeat	Not stated			
All races <sup>6</sup>	4,089,950	2,949,853	51,602	1,119,388	684,484	434,699	20,709	27.5	19.1	10.6
Under 20 years	421,241	339,393	1,171	80,182	70,150	10,030	1,666	19.1	17.2	10.5
20–24 years	1,032,305	795,078	9,003	232,579	154,407	78,157	4,648	22.6	16.4	10.3
25–29 years	1,086,366	795,736	14,123	285,231	172,845	112,353	5,399	26.4	18.1	11.2
30–34 years	975,546	665,025	16,004	305,102	170,728	134,296	5,419	31.4	20.8	10.6
35–39 years	467,642	293,643	9,194	171,142	90,685	80,403	2,857	36.8	24.2	10.3
40–54 years	106,850	60,978	2,107	45,152	25,669	19,460	720	42.5	30.4	9.8
White total <sup>7</sup>	3,225,848	2,332,605	39,696	876,595	531,486	344,954	16,648	27.3	18.8	10.3
Under 20 years	302,024	244,706	708	56,101	49,264	6,835	1,217	18.7	16.8	9.4
20–24 years	790,910	612,917	6,360	174,405	116,293	58,102	3,588	22.2	16.1	9.9
25–29 years	871,496	640,765	10,764	226,343	136,887	89,434	4,388	26.1	17.8	10.7
30–34 years	795,902	544,355	12,646	247,011	136,885	110,068	4,536	31.2	20.5	10.3
35–39 years	379,773	240,412	7,495	137,017	71,959	65,015	2,344	36.3	23.6	10.3
40–54 years	85,743	49,450	1,723	35,718	20,198	15,500	575	41.9	29.7	10.0
Non-Hispanic white	2,321,904	1,671,414	28,751	637,482	398,368	238,990	13,008	27.6	19.5	10.7
Under 20 years	174,019	140,063	326	33,137	29,808	3,327	819	19.1	17.6	8.9
20–24 years	522,275	403,708	3,719	115,906	80,222	35,680	2,661	22.3	16.7	9.4
25–29 years	627,437	462,787	7,202	161,278	103,308	57,952	3,372	25.8	18.5	11.1
30–34 years	626,315	431,212	9,848	191,321	110,359	80,912	3,782	30.7	20.8	10.9
35–39 years	303,354	193,777	6,212	107,661	58,334	49,293	1,916	35.7	23.7	11.2
40–54 years	68,504	39,867	1,444	28,179	16,337	11,826	458	41.4	29.8	10.9
Black total <sup>7</sup>	599,847	423,033	8,484	173,834	107,603	66,217	2,980	29.1	20.6	11.4
Under 20 years	103,677	81,467	430	21,813	18,862	2,951	397	21.1	18.9	12.7
20–24 years	196,268	145,662	2,217	49,712	31,975	17,733	894	25.4	18.2	11.1
25–29 years	139,947	98,252	2,502	40,995	23,174	17,817	700	29.4	19.5	12.3
30–34 years	97,529	62,270	2,077	34,694	19,106	15,583	565	35.8	24.1	11.8
35–39 years	49,889	28,710	1,019	20,839	11,154	9,684	340	42.1	28.7	9.5
40–54 years	12,537	6,672	239	5,781	3,332	2,449	84	46.4	34.1	8.9
Non-Hispanic black	576,033	405,671	8,109	167,506	103,694	63,802	2,856	29.2	20.7	11.3
Under 20 years	100,151	78,599	414	21,165	18,288	2,877	387	21.2	19.0	12.6
20–24 years	189,020	140,017	2,129	48,132	30,843	17,287	871	25.6	18.3	11.0
25–29 years	133,821	93,804	2,383	39,351	22,249	17,098	666	29.6	19.6	12.2
30–34 years	93,346	59,483	1,987	33,324	18,381	14,940	539	35.9	24.2	11.7
35–39 years	47,661	27,374	966	19,972	10,716	9,255	315	42.2	28.9	9.5
40–54 years	12,034	6,394	230	5,562	3,217	2,345	78	46.5	34.3	8.9
Hispanic <sup>8</sup>	912,329	667,656	11,153	241,159	134,231	106,912	3,514	26.5	17.0	9.4
Under 20 years	130,880	106,994	394	23,487	19,916	3,571	399	18.0	15.7	9.9
20–24 years	273,311	212,886	2,728	59,513	36,802	22,707	912	21.8	14.9	10.7
25–29 years	246,361	179,603	3,650	65,781	33,872	31,907	977	26.8	16.1	10.3
30–34 years	169,054	112,629	2,835	55,702	26,397	29,300	723	33.1	19.4	8.8
35–39 years	75,801	46,157	1,272	29,246	13,467	15,775	398	38.8	23.1	7.5
40–54 years	16,922	9,387	274	7,430	3,777	3,652	105	44.2	29.3	7.0

<sup>1</sup>Includes unknown type of vaginal delivery; see "Technical Notes."<sup>2</sup>Includes unknown type of cesarean delivery; see "Technical Notes."<sup>3</sup>Percent of all live births by cesarean delivery.<sup>4</sup>Number of primary cesareans per 100 live births to women who have not had a previous cesarean.<sup>5</sup>Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.<sup>6</sup>Includes races other than white and black and origin not stated.<sup>7</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>8</sup>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, 2003**

[By place of residence]

State	Cesarean delivery rate <sup>1</sup>						Rate of vaginal births after previous cesarean <sup>2</sup>					
	All races <sup>3</sup>	White		Black		Hispanic <sup>5</sup>	All races <sup>3</sup>	White		Black		Hispanic <sup>5</sup>
		Total <sup>4</sup>	Non-Hispanic	Total <sup>4</sup>	Non-Hispanic			Total <sup>4</sup>	Non-Hispanic	Total <sup>4</sup>	Non-Hispanic	
United States <sup>6</sup>	27.5	27.3	27.6	29.1	29.2	26.5	10.6	10.3	10.7	11.4	11.3	9.4
Alabama	29.6	29.4	29.9	30.3	30.3	22.9	6.9	6.9	6.5	7.0	6.9	12.1
Alaska	21.4	24.3	23.9	27.0	29.2	22.0	16.5	11.1	10.5	*	*	*
Arizona	22.2	22.2	23.7	24.7	25.5	20.8	7.8	7.1	8.1	8.2	8.1	6.0
Arkansas	29.5	29.1	29.7	31.3	31.3	24.3	8.7	8.8	7.7	7.9	7.8	16.7
California	27.9	27.8	28.5	31.3	31.4	27.2	6.6	6.3	6.8	7.1	7.1	6.1
Colorado	22.2	22.1	22.9	24.4	24.4	20.6	14.9	14.3	13.6	25.6	25.5	15.5
Connecticut	27.2	27.3	28.1	27.9	28.2	24.0	11.2	10.7	10.6	13.0	13.5	10.5
Delaware	29.1	28.5	28.5	31.4	31.6	27.5	10.9	10.5	9.6	11.0	11.0	14.9
District of Columbia	27.4	28.9	29.2	26.8	28.2	20.2	10.3	12.1	*	10.1	9.5	*
Florida	30.8	31.0	29.8	30.2	30.1	33.3	5.7	5.4	6.2	6.4	6.5	4.1
Georgia	27.2	26.9	28.4	28.1	28.1	21.0	9.2	9.1	8.2	8.9	8.7	13.3
Hawaii	22.0	21.1	21.1	20.2	21.1	22.3	16.7	12.9	13.3	*	*	13.2
Idaho	21.1	21.1	21.0	*	*	21.6	14.1	14.3	13.6	*	*	17.6
Illinois	25.7	25.5	26.5	26.2	26.2	23.1	13.5	13.5	12.7	13.1	13.1	15.3
Indiana	25.6	25.5	25.5	26.2	26.3	25.3	10.2	10.1	9.9	11.0	10.9	12.8
Iowa	25.4	25.5	25.4	26.9	27.0	26.6	10.4	10.3	10.5	11.8	12.0	7.9
Kansas	26.5	26.6	26.9	27.2	27.2	25.1	9.0	8.7	8.6	8.9	9.1	9.3
Kentucky	30.1	30.2	30.3	29.4	29.4	27.7	6.6	6.4	6.0	8.6	8.6	14.5
Louisiana	31.7	32.8	32.8	30.3	30.3	33.0	5.1	3.9	3.9	6.8	6.8	*
Maine	26.3	26.3	26.3	25.1	26.1	30.7	8.2	7.9	8.1	*	*	*
Maryland	28.5	27.4	27.7	30.7	31.2	24.2	15.4	15.6	15.2	14.7	14.5	18.4
Massachusetts	29.2	29.4	30.0	29.6	30.4	25.8	12.6	12.3	12.1	14.0	15.8	12.7
Michigan	26.4	26.5	26.7	25.8	25.9	25.1	11.4	11.5	11.3	10.9	10.9	13.3
Minnesota	23.3	23.6	23.8	23.9	23.9	22.2	13.9	12.8	11.9	22.8	23.4	20.2
Mississippi	32.5	33.0	33.2	31.9	31.9	24.6	5.8	4.8	4.8	6.9	6.9	*
Missouri	27.3	27.4	27.6	26.5	26.5	23.9	11.2	10.7	10.5	14.2	14.4	13.7
Montana	23.6	23.2	23.1	*	*	24.3	15.8	17.2	17.2	*	*	*
Nebraska	27.7	27.9	28.2	25.4	25.2	26.6	8.6	8.3	7.8	13.0	12.7	11.7
Nevada	27.5	26.8	29.4	31.6	31.8	23.6	8.0	8.0	7.0	10.1	10.1	9.4
New Hampshire	26.5	26.2	26.4	33.3	35.3	25.5	11.2	11.2	11.1	*	*	*
New Jersey	33.1	33.0	33.6	34.4	34.2	31.8	14.3	13.7	13.7	16.5	17.9	12.9
New Mexico	20.3	20.9	21.8	21.1	21.0	20.4	18.7	17.1	17.8	*	*	16.5
New York	28.4	28.5	29.1	29.1	29.3	27.1	16.2	15.9	16.1	17.3	17.5	15.4
North Carolina	27.4	26.9	28.1	29.2	29.2	22.0	10.7	10.8	9.8	10.1	10.1	15.5
North Dakota	24.3	24.3	24.1	21.1	21.7	30.4	13.7	13.7	13.7	*	*	*
Ohio	25.1	24.9	25.0	25.7	25.7	23.1	14.6	13.9	13.9	17.7	17.8	15.8
Oklahoma	29.4	29.1	29.8	32.5	32.6	24.9	7.6	7.5	7.2	5.7	5.8	9.8
Oregon	24.9	24.6	25.1	30.3	30.1	22.8	13.6	13.7	12.1	*	*	19.6
Pennsylvania <sup>7</sup>	26.1	26.2	26.3	25.9	26.4	24.6	20.4	19.3	19.4	26.4	26.2	18.3
Rhode Island	28.3	29.0	30.3	25.7	25.4	26.1	11.2	10.3	10.2	15.3	*	11.5
South Carolina	29.9	29.7	30.3	30.3	30.3	25.3	8.3	8.2	7.4	8.2	8.2	15.4
South Dakota	25.4	25.6	25.8	23.0	24.1	20.2	14.6	13.8	13.5	*	*	*
Tennessee	28.6	28.9	29.3	27.7	27.7	24.2	9.6	8.3	8.1	14.2	14.2	11.2
Texas	30.2	29.8	31.0	33.2	33.3	28.9	6.6	6.6	5.7	5.9	5.9	7.3
Utah	19.2	19.0	18.5	27.3	28.9	21.9	21.8	21.7	22.1	*	*	20.4
Vermont	22.6	22.4	22.4	*	*	*	24.0	23.5	23.5	*	*	*
Virginia	28.3	28.0	28.4	28.3	28.5	25.0	10.7	10.0	9.5	12.3	12.1	13.5
Washington <sup>7</sup>	25.5	25.3	25.5	28.2	28.7	23.8	17.7	17.3	16.5	20.9	20.0	21.6
West Virginia	31.6	31.5	31.5	34.0	34.3	28.8	8.8	8.8	8.8	*	*	*
Wisconsin	21.9	22.2	22.3	21.2	21.1	21.1	15.4	14.7	14.6	18.3	18.3	15.7
Wyoming	23.8	23.9	23.9	*	*	24.4	13.4	13.4	13.7	*	*	*

See footnotes at end of table.

**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, 2003—Con.**

[By place of residence]

State	Cesarean delivery rate <sup>1</sup>						Rate of vaginal births after previous cesarean <sup>2</sup>					
	All races <sup>3</sup>	White		Black		Hispanic <sup>5</sup>	All races <sup>3</sup>	White		Black		Hispanic <sup>5</sup>
		Total <sup>4</sup>	Non-Hispanic	Total <sup>4</sup>	Non-Hispanic			Total <sup>4</sup>	Non-Hispanic	Total <sup>4</sup>	Non-Hispanic	
Puerto Rico . . . . .	46.1	46.3	---	44.2	---	---	3.2	3.1	---	3.3	---	---
Virgin Islands . . . . .	26.6	29.3	21.2	25.5	24.8	30.6	24.3	*	*	22.5	24.3	*
Guam . . . . .	24.4	16.1	16.3	*	*	*	10.8	*	*	*	*	*
American Samoa . . . . .	---	---	---	---	---	---	---	---	---	---	---	---
Northern Marianas . . . . .	20.3	*	---	*	---	---	*	*	---	*	---	---

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator. --- Data not available. <sup>1</sup>Percent of all live births by cesarean delivery.  
<sup>2</sup>Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery. <sup>3</sup>Includes races other than white and black and origin not stated.  
<sup>4</sup>Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. California, Hawaii, Ohio (for December), Pennsylvania, Utah, and Washington reported multiple-race data in 2003. The multiple-race data for these States were bridged to the single-race categories of the 1977 Office of Management and Budget standards for comparability with other States; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes." <sup>5</sup>Includes all persons of Hispanic origin of any race. <sup>6</sup>Excludes data for the territories.  
<sup>7</sup>Rate of vaginal birth after cesarean delivery for Pennsylvania and Washington may be over-reported because of changes resulting from their implementation of the 2003 Revision of the U.S. Standard Certificate of Live Birth; see "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, 2003**

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 <sup>3</sup>
		Total <sup>1</sup>	Primary <sup>2</sup>	
<b>Medical risk factors</b>				
Anemia <sup>4</sup> . . . . .	91,535	28.2	19.2	13.4
Cardiac disease <sup>4</sup> . . . . .	18,639	32.2	23.0	11.3
Acute or chronic lung disease <sup>4</sup> . . . . .	46,356	31.1	22.3	12.4
Diabetes . . . . .	133,547	43.0	31.2	8.0
Genital herpes <sup>4,5</sup> . . . . .	31,567	36.6	29.2	13.4
Hydramnios/Oligohydramnios <sup>4</sup> . . . . .	53,141	41.4	35.3	9.5
Hemoglobinopathy <sup>4</sup> . . . . .	3,112	31.2	22.4	11.8
Hypertension, chronic . . . . .	35,953	47.8	37.1	6.4
Hypertension, pregnancy-associated . . . . .	152,268	43.1	37.1	6.9
Eclampsia . . . . .	12,059	55.4	49.7	4.6
Incompetent cervix <sup>4</sup> . . . . .	11,464	41.6	33.4	14.2
Renal disease <sup>4</sup> . . . . .	11,668	29.3	20.9	12.7
Rh sensitization <sup>4,6</sup> . . . . .	26,040	27.7	19.5	12.6
Uterine bleeding <sup>4,5</sup> . . . . .	18,494	37.9	29.8	13.2
<b>Complications of labor and/or delivery</b>				
Febrile <sup>4</sup> . . . . .	59,787	32.2	31.1	39.2
Meconium, moderate/heavy . . . . .	197,865	23.5	20.5	30.8
Premature rupture of membrane <sup>4</sup> . . . . .	83,103	30.8	26.8	21.9
Abruptio placenta <sup>4</sup> . . . . .	20,386	64.3	59.7	8.0
Placenta previa <sup>4</sup> . . . . .	12,953	81.7	77.5	2.3
Other excessive bleeding <sup>4</sup> . . . . .	22,787	33.7	26.5	15.1
Seizures during labor <sup>4</sup> . . . . .	1,304	58.6	55.3	*
Precipitous labor (less than 3 hours) . . . . .	74,807	2.7	1.8	73.0
Prolonged labor (more than 20 hours) <sup>4</sup> . . . . .	26,130	38.2	37.6	41.4
Dysfunctional labor <sup>4</sup> . . . . .	109,836	72.3	71.2	10.9
Breech/Malpresentation . . . . .	156,804	87.2	85.7	2.9
Cephalopelvic disproportion <sup>4</sup> . . . . .	56,111	96.0	95.9	1.9
Cord prolapse <sup>4</sup> . . . . .	6,385	68.4	66.6	8.0
Anesthetic complication <sup>4,5</sup> . . . . .	2,415	45.2	37.1	8.0
Fetal distress <sup>4,5</sup> . . . . .	132,377	63.2	61.6	14.0

\*Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.  
<sup>1</sup>Percent of all live births by cesarean delivery. <sup>2</sup>Number of primary cesareans per 100 live births to women who have not had a previous cesarean.  
<sup>3</sup>Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.  
<sup>4</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."  
<sup>5</sup>Texas does not report this risk factor or complication. <sup>6</sup>Kansas does not report this risk factor.

**Table 43. Live births by birthweight and percentage very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 2003**

Birthweight <sup>1</sup> and race and Hispanic origin of mother	All births	Period of gestation <sup>2</sup>											
		Preterm						Term				Postterm	Not stated
		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 <sup>3</sup>	4,089,950	499,008	30,061	49,545	234,074	185,328	3,288,548	2,097,771	807,157	383,620	258,552	43,842	
Less than 500 grams	6,307	6,132	5,857	247	23	5	6	2	3	1	1	168	
500–999 grams	22,980	22,319	16,587	5,172	528	32	183	133	35	15	19	459	
1,000–1,499 grams	29,930	27,759	3,905	16,085	7,179	590	1,508	1,080	297	131	213	450	
1,500–1,999 grams	63,791	53,171	957	12,259	34,790	5,165	8,984	7,419	1,095	470	794	842	
2,000–2,499 grams	201,056	105,163	612	4,193	68,175	32,183	88,377	73,882	9,883	4,612	5,175	2,341	
2,500–2,999 grams	711,003	133,242	908	4,162	60,025	68,147	537,339	412,555	87,702	37,082	32,922	7,500	
3,000–3,499 grams	1,557,864	100,835	–	4,827	41,100	54,908	1,340,828	888,504	314,513	137,811	99,990	16,211	
3,500–3,999 grams	1,131,577	39,471	–	2,461	17,514	19,496	993,872	559,499	290,910	143,463	86,878	11,356	
4,000–4,499 grams	309,721	7,721	–	–	3,805	3,916	271,493	132,782	88,291	50,420	27,172	3,335	
4,500–4,999 grams	46,690	1,243	–	–	577	666	40,228	18,893	12,804	8,531	4,720	499	
5,000 grams or more	5,431	211	–	–	98	113	4,577	2,324	1,306	947	566	77	
Not stated	3,600	1,741	1,235	139	260	107	1,153	698	318	137	102	604	
Percent													
Very low birthweight <sup>4</sup>	1.4	11.3	91.4	43.5	3.3	0.3	0.1	0.1	0.0	0.0	0.1	2.5	
Low birthweight <sup>5</sup>	7.9	43.1	96.9	76.8	47.3	20.5	3.0	3.9	1.4	1.4	2.4	9.9	
Number													
White total <sup>6</sup>	3,225,848	365,358	17,967	34,155	172,141	141,095	2,618,961	1,659,139	648,700	311,122	206,544	34,985	
Less than 500 grams	3,593	3,475	3,299	159	14	3	4	1	2	1	–	114	
500–999 grams	14,096	13,618	9,947	3,292	356	23	138	102	28	8	12	328	
1,000–1,499 grams	20,173	18,698	2,460	10,984	4,847	407	1,012	733	202	77	155	308	
1,500–1,999 grams	44,419	37,217	575	8,780	24,316	3,546	6,035	5,014	699	322	548	619	
2,000–2,499 grams	141,331	75,862	378	2,804	49,885	22,795	60,221	50,388	6,660	3,173	3,568	1,680	
2,500–2,999 grams	511,317	99,112	564	2,735	44,617	51,196	383,324	295,407	61,647	26,270	23,389	5,492	
3,000–3,499 grams	1,220,632	77,218	–	3,400	30,561	43,257	1,052,594	699,863	244,945	107,786	77,864	12,956	
3,500–3,999 grams	951,782	31,556	–	1,909	13,722	15,925	837,969	472,654	244,546	120,769	72,640	9,617	
4,000–4,499 grams	270,180	6,300	–	–	3,087	3,213	237,343	115,942	77,176	44,225	23,626	2,911	
4,500–4,999 grams	41,156	1,020	–	–	467	553	35,514	16,540	11,415	7,559	4,174	448	
5,000 grams or more	4,664	171	–	–	78	93	3,930	1,969	1,132	829	495	68	
Not stated	2,505	1,111	744	92	191	84	877	526	248	103	73	444	
Percent													
Very low birthweight <sup>4</sup>	1.2	9.8	91.2	42.4	3.0	0.3	0.0	0.1	0.0	0.0	0.1	2.2	
Low birthweight <sup>5</sup>	6.9	40.9	96.7	76.4	46.2	19.0	2.6	3.4	1.2	1.2	2.1	8.8	
Number													
Non-Hispanic white	2,321,904	260,947	12,639	24,251	121,222	102,835	1,904,575	1,211,016	469,198	224,361	144,119	12,263	
Less than 500 grams	2,529	2,485	2,352	117	13	3	2	1	1	–	–	42	
500–999 grams	9,998	9,785	7,048	2,475	245	17	94	70	18	6	6	113	
1,000–1,499 grams	14,882	13,981	1,751	8,240	3,680	310	661	490	121	50	111	129	
1,500–1,999 grams	32,915	27,963	354	6,567	18,396	2,646	4,302	3,611	483	208	377	273	
2,000–2,499 grams	103,007	57,100	245	1,891	37,837	17,127	42,794	36,111	4,558	2,125	2,493	620	
2,500–2,999 grams	356,232	72,108	362	1,635	31,901	38,210	266,678	207,843	41,369	17,466	15,627	1,819	
3,000–3,499 grams	858,305	51,795	–	2,047	18,736	31,012	749,648	503,605	171,317	74,726	52,630	4,232	
3,500–3,999 grams	700,819	20,131	–	1,206	8,064	10,861	625,749	355,104	181,568	89,077	51,528	3,411	
4,000–4,499 grams	206,407	4,033	–	–	1,879	2,154	183,514	89,671	59,815	34,028	17,709	1,151	
4,500–4,999 grams	31,570	654	–	–	282	372	27,533	12,691	8,892	5,950	3,201	182	
5,000 grams or more	3,415	110	–	–	48	62	2,901	1,401	862	638	380	24	
Not stated	1,825	802	527	73	141	61	699	418	194	87	57	267	
Percent													
Very low birthweight <sup>4</sup>	1.2	10.1	92.1	44.8	3.3	0.3	0.0	0.0	0.0	0.0	0.1	2.4	
Low birthweight <sup>5</sup>	7.0	42.8	97.0	79.8	49.7	19.6	2.5	3.3	1.1	1.1	2.1	9.8	

See footnotes at end of table.



**Table 43. Live births by birthweight and percentage very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 2003—Con.**

Birthweight <sup>1</sup> and race and Hispanic origin of mother	All births	Period of gestation <sup>2</sup>											
		Preterm						Term				Postterm	Not stated
		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 <sup>6</sup>	599,847	105,101	10,675	12,789	48,486	33,151	454,209	299,385	106,021	48,803	36,234	4,303	
Less than 500 grams	2,427	2,382	2,300	72	8	2	2	1	1	–	1	42	
500–999 grams	7,765	7,630	5,865	1,625	133	7	37	27	6	4	7	91	
1,000–1,499 grams	8,204	7,656	1,248	4,329	1,923	156	406	290	69	47	49	93	
1,500–1,999 grams	15,654	12,919	331	2,902	8,436	1,250	2,383	1,934	326	123	203	149	
2,000–2,499 grams	46,038	23,077	192	1,161	14,472	7,252	21,283	17,656	2,499	1,128	1,278	400	
2,500–2,999 grams	143,176	26,071	303	1,160	11,945	12,663	108,977	82,712	18,483	7,782	7,132	996	
3,000–3,499 grams	228,356	17,831	–	1,097	8,137	8,597	193,652	126,959	46,445	20,248	15,460	1,413	
3,500–3,999 grams	117,889	5,795	–	405	2,802	2,588	101,871	56,971	30,108	14,792	9,457	766	
4,000–4,499 grams	25,428	1,026	–	–	501	525	21,955	10,967	7,020	3,968	2,246	201	
4,500–4,999 grams	3,546	151	–	–	73	78	3,040	1,529	901	610	333	22	
5,000 grams or more	504	30	–	–	13	17	426	236	115	75	46	2	
Not stated	860	533	436	38	43	16	177	103	48	26	22	128	
Percent													
Very low birthweight <sup>4</sup>	3.1	16.9	91.9	47.3	4.3	0.5	0.1	0.1	0.1	0.1	0.2	5.4	
Low birthweight <sup>5</sup>	13.4	51.3	97.0	79.1	51.5	26.2	5.3	6.7	2.7	2.7	4.2	18.6	
Number													
Non-Hispanic black	576,033	101,984	10,386	12,452	47,067	32,079	435,340	287,620	101,268	46,452	34,669	4,040	
Less than 500 grams	2,350	2,310	2,229	71	8	2	2	1	1	–	1	37	
500–999 grams	7,575	7,444	5,715	1,593	129	7	37	27	6	4	7	87	
1,000–1,499 grams	7,998	7,466	1,215	4,216	1,885	150	391	279	66	46	48	93	
1,500–1,999 grams	15,211	12,553	320	2,819	8,202	1,212	2,320	1,884	316	120	196	142	
2,000–2,499 grams	44,813	22,477	187	1,133	14,098	7,059	20,717	17,189	2,425	1,103	1,239	380	
2,500–2,999 grams	138,440	25,295	298	1,131	11,596	12,270	105,299	79,977	17,817	7,505	6,894	952	
3,000–3,499 grams	218,901	17,220	–	1,064	7,873	8,283	185,532	121,808	44,413	19,311	14,824	1,325	
3,500–3,999 grams	112,139	5,555	–	391	2,678	2,486	96,862	54,274	28,606	13,982	8,998	724	
4,000–4,499 grams	23,992	975	–	–	473	502	20,738	10,406	6,618	3,714	2,094	185	
4,500–4,999 grams	3,340	147	–	–	71	76	2,869	1,453	844	572	305	19	
5,000 grams or more	484	29	–	–	13	16	408	227	111	70	45	2	
Not stated	790	513	422	34	41	16	165	95	45	25	18	94	
Percent													
Very low birthweight <sup>4</sup>	3.1	17.0	91.9	47.4	4.3	0.5	0.1	0.1	0.1	0.1	0.2	5.5	
Low birthweight <sup>5</sup>	13.6	51.5	97.0	79.2	51.7	26.3	5.4	6.7	2.8	2.7	4.3	18.7	
Number													
Hispanic <sup>7</sup>	912,329	105,688	5,378	10,026	51,536	38,748	721,266	452,575	181,123	87,568	63,292	22,083	
Less than 500 grams	1,037	965	922	42	1	–	2	–	1	1	–	70	
500–999 grams	4,140	3,884	2,948	821	109	6	41	31	8	2	6	209	
1,000–1,499 grams	5,366	4,778	736	2,766	1,174	102	363	252	83	28	44	181	
1,500–1,999 grams	11,655	9,383	231	2,237	5,996	919	1,767	1,425	227	115	171	334	
2,000–2,499 grams	38,775	18,963	140	930	12,163	5,730	17,685	14,491	2,142	1,052	1,102	1,025	
2,500–2,999 grams	157,583	27,359	202	1,118	12,859	13,180	118,701	89,047	20,682	8,972	7,944	3,579	
3,000–3,499 grams	366,508	25,760	–	1,382	11,982	12,396	306,547	198,452	74,561	33,534	25,679	8,522	
3,500–3,999 grams	252,230	11,569	–	710	5,755	5,104	213,311	118,177	63,258	31,876	21,274	6,076	
4,000–4,499 grams	63,688	2,310	–	–	1,236	1,074	53,687	26,170	17,352	10,165	5,958	1,733	
4,500–4,999 grams	9,619	368	–	–	184	184	8,002	3,870	2,516	1,616	984	265	
5,000 grams or more	1,246	62	–	–	30	32	1,029	573	266	190	114	41	
Not stated	482	287	199	20	47	21	131	87	27	17	16	48	
Percent													
Very low birthweight <sup>4</sup>	1.2	9.1	88.9	36.3	2.5	0.3	0.1	0.1	0.1	0.0	0.1	2.1	
Low birthweight <sup>5</sup>	6.7	36.0	96.1	67.9	37.8	17.4	2.8	3.6	1.4	1.4	2.1	8.3	

– Quantity zero. 0.0 Quantity more than zero but less than 0.05.  
<sup>1</sup>Equivalents of the gram weights in pounds and ounces are shown in the "Technical Notes." <sup>2</sup>Expressed in completed weeks.  
<sup>3</sup>Includes races other than white and black and origin not stated. <sup>4</sup>Birthweight of less than 1,500 grams (3 lb 4 oz). <sup>5</sup>Birthweight of less than 2,500 grams (5 lb 8 oz).  
<sup>6</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."  
<sup>7</sup>Includes all persons of Hispanic origin of any race.

**Table 44. Percentage of live births very preterm and preterm and percentage of live births of very low birthweight and low birthweight, by race and Hispanic origin of mother: United States, 1981–2003**

Year	Very preterm <sup>1</sup>						Preterm <sup>2</sup>					
	All races <sup>3</sup>	White		Black		Hispanic <sup>5</sup>	All races <sup>3</sup>	White		Black		Hispanic <sup>5</sup>
		Total <sup>4</sup>	Non-Hispanic	Total <sup>4</sup>	Non-Hispanic			Total <sup>4</sup>	Non-Hispanic	Total <sup>4</sup>	Non-Hispanic	
2003	1.97	1.63	1.60	3.94	3.99	1.73	12.3	11.5	11.3	17.6	17.8	11.9
2002	1.96	1.60	1.56	4.01	4.04	1.72	12.1	11.1	11.0	17.5	17.7	11.6
2001	1.95	1.59	1.55	4.02	4.05	1.69	11.9	11.0	10.8	17.5	17.6	11.4
2000	1.93	1.55	1.51	4.04	4.09	1.69	11.6	10.6	10.4	17.3	17.4	11.2
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 <sup>6</sup>	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 <sup>6</sup>	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 <sup>7</sup>	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 <sup>8</sup>	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 <sup>9</sup>						Low birthweight <sup>10</sup>					
	All races <sup>3</sup>	White		Black		Hispanic <sup>5</sup>	All races <sup>3</sup>	White		Black		Hispanic <sup>5</sup>
		Total <sup>4</sup>	Non-Hispanic	Total <sup>4</sup>	Non-Hispanic			Total <sup>4</sup>	Non-Hispanic	Total <sup>4</sup>	Non-Hispanic	
2003	1.45	1.17	1.18	3.07	3.12	1.16	7.9	6.9	7.0	13.4	13.6	6.7
2002	1.46	1.17	1.17	3.13	3.15	1.17	7.8	6.8	6.9	13.3	13.4	6.5
2001	1.44	1.16	1.17	3.04	3.08	1.14	7.7	6.7	6.8	13.0	13.1	6.5
2000	1.43	1.14	1.14	3.07	3.10	1.14	7.6	6.5	6.6	13.0	13.1	6.4
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 <sup>6</sup>	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 <sup>6</sup>	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 <sup>7</sup>	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 <sup>8</sup>	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.

<sup>1</sup>Births of less than 32 completed weeks of gestation.<sup>2</sup>Births of less than 37 completed weeks of gestation.<sup>3</sup>Includes races other than white and black and origin not stated.<sup>4</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>5</sup>Includes all persons of Hispanic origin of any race.<sup>6</sup>Data by Hispanic origin exclude New Hampshire, which did not report Hispanic origin.<sup>7</sup>Data by Hispanic origin exclude New Hampshire and Oklahoma, which did not report Hispanic origin.<sup>8</sup>Data by Hispanic origin exclude New Hampshire, Oklahoma, and Louisiana, which did not report Hispanic origin.<sup>9</sup>Less than 1,500 grams (3 lb 4 oz).<sup>10</sup>Less than 2,500 grams (5 lb 8 oz).

**Table 45. Number and percentage low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 2003**

Age and race and Hispanic origin of mother	Low birthweight <sup>1</sup>		Birthweight <sup>2</sup>												
	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
<b>All races<sup>3</sup></b>															
All ages . . . . .	324,064	7.9	4,089,950	6,307	22,980	29,930	63,791	201,056	711,003	1,557,864	1,131,577	309,721	46,690	5,431	3,600
Under 15 years . . . . .	848	12.7	6,661	32	85	87	149	495	1,698	2,694	1,220	179	14	1	7
15–19 years . . . . .	40,211	9.7	414,580	804	3,152	3,637	7,462	25,156	92,531	169,390	91,699	18,154	2,014	178	403
15 years . . . . .	2,103	11.5	18,238	50	191	210	412	1,240	4,423	7,548	3,524	553	59	2	26
16 years . . . . .	4,402	10.7	41,344	77	381	414	825	2,705	9,843	16,996	8,390	1,502	146	19	46
17 years . . . . .	7,549	10.1	74,802	161	622	670	1,383	4,713	16,990	30,720	16,087	3,053	295	32	76
18 years . . . . .	11,268	9.6	117,750	234	858	981	2,066	7,129	26,522	48,060	26,044	5,127	574	43	112
19 years . . . . .	14,889	9.2	162,446	282	1,100	1,362	2,776	9,369	34,753	66,066	37,654	7,919	940	82	143
20–24 years . . . . .	82,494	8.0	1,032,305	1,604	5,732	7,084	15,167	52,907	199,835	412,228	264,313	63,142	8,526	878	889
25–29 years . . . . .	76,631	7.1	1,086,366	1,522	5,399	6,943	14,862	47,905	178,150	415,463	314,316	86,511	12,886	1,477	932
30–34 years . . . . .	71,477	7.3	975,546	1,454	4,944	6,822	14,636	43,621	148,022	357,144	293,569	88,696	14,155	1,701	782
35–39 years . . . . .	40,550	8.7	467,642	685	2,863	4,059	8,797	24,146	72,708	164,600	137,185	43,764	7,397	991	447
40–44 years . . . . .	10,655	10.6	101,005	194	730	1,151	2,403	6,177	16,858	34,639	27,995	8,908	1,626	198	126
45–54 years . . . . .	1,198	20.5	5,845	12	75	147	315	649	1,201	1,706	1,280	367	72	7	14
<b>White total<sup>4</sup></b>															
All ages . . . . .	223,612	6.9	3,225,848	3,593	14,096	20,173	44,419	141,331	511,317	1,220,632	951,782	270,180	41,156	4,664	2,505
Under 15 years . . . . .	378	10.3	3,677	8	41	42	68	219	838	1,573	752	124	10	1	1
15–19 years . . . . .	24,774	8.3	298,347	409	1,771	2,193	4,604	15,797	61,144	123,409	72,095	14,884	1,666	138	237
15 years . . . . .	1,107	9.6	11,484	26	93	107	221	660	2,503	4,899	2,522	396	45	2	10
16 years . . . . .	2,536	9.0	28,151	30	199	247	482	1,578	6,120	11,844	6,301	1,197	119	12	22
17 years . . . . .	4,669	8.8	52,941	78	357	418	849	2,967	11,026	21,981	12,452	2,487	249	27	50
18 years . . . . .	7,054	8.2	85,734	127	496	596	1,281	4,554	17,756	35,474	20,627	4,246	467	33	77
19 years . . . . .	9,408	7.8	120,037	148	626	825	1,771	6,038	23,739	49,211	30,193	6,558	786	64	78
20–24 years . . . . .	53,600	6.8	790,910	824	3,323	4,447	9,751	35,255	140,299	316,971	217,687	53,701	7,340	717	595
25–29 years . . . . .	54,143	6.2	871,496	901	3,401	4,750	10,617	34,474	130,541	330,559	267,011	75,912	11,397	1,267	666
30–34 years . . . . .	52,407	6.6	795,902	882	3,209	4,927	10,888	32,501	110,515	287,041	252,401	78,817	12,650	1,503	568
35–39 years . . . . .	29,593	7.8	379,773	435	1,791	2,878	6,520	17,969	54,448	132,207	117,123	38,636	6,593	854	319
40–44 years . . . . .	7,751	9.6	81,031	125	500	824	1,718	4,584	12,592	27,513	23,658	7,799	1,436	177	105
45–54 years . . . . .	966	20.6	4,712	9	60	112	253	532	940	1,359	1,055	307	64	7	14

See footnotes at end of table.

**Table 45. Number and percentage low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 2003—Con.**

Age and race and Hispanic origin of mother	Low birthweight <sup>1</sup>		Birthweight <sup>2</sup>												
	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
<b>Non-Hispanic white</b>															
All ages . . . . .	163,331	7.0	2,321,904	2,529	9,998	14,882	32,915	103,007	356,232	858,305	700,819	206,407	31,570	3,415	1,825
Under 15 years . . . . .	144	10.3	1,399	3	19	18	30	74	309	551	323	67	5	–	–
15–19 years . . . . .	14,904	8.6	172,620	258	1,122	1,369	2,811	9,344	33,960	69,160	43,514	9,726	1,120	75	161
15 years . . . . .	525	10.8	4,878	10	46	53	113	303	994	1,973	1,152	208	21	–	5
16 years . . . . .	1,266	9.5	13,375	16	111	119	232	788	2,703	5,432	3,208	684	68	4	10
17 years . . . . .	2,666	9.3	28,550	49	218	253	509	1,637	5,654	11,474	6,991	1,556	159	16	34
18 years . . . . .	4,316	8.6	50,484	88	321	380	789	2,738	10,061	20,199	12,708	2,795	323	21	61
19 years . . . . .	6,131	8.1	75,333	95	426	564	1,168	3,878	14,548	30,082	19,455	4,483	549	34	51
20–24 years . . . . .	36,764	7.0	522,275	571	2,273	3,141	6,777	24,002	91,307	204,117	146,151	37,745	5,273	497	421
25–29 years . . . . .	39,730	6.3	627,437	615	2,438	3,503	7,900	25,274	92,116	233,898	194,930	56,873	8,508	904	478
30–34 years . . . . .	41,263	6.6	626,315	661	2,383	3,849	8,613	25,757	85,088	223,247	201,188	63,791	10,175	1,132	431
35–39 years . . . . .	23,634	7.8	303,354	319	1,334	2,282	5,231	14,468	42,777	104,440	94,704	31,608	5,284	665	242
40–44 years . . . . .	6,083	9.4	64,600	95	380	628	1,340	3,640	9,895	21,760	19,149	6,344	1,152	137	80
45–54 years . . . . .	809	20.8	3,904	7	49	92	213	448	780	1,132	860	253	53	5	12
<b>Black total<sup>4</sup></b>															
All ages . . . . .	80,088	13.4	599,847	2,427	7,765	8,204	15,654	46,038	143,176	228,356	117,889	25,428	3,546	504	860
Under 15 years . . . . .	437	16.1	2,726	20	42	41	76	258	807	1,016	416	41	3	–	6
15–19 years . . . . .	14,092	14.0	100,951	359	1,281	1,328	2,620	8,504	27,963	39,811	16,167	2,493	246	33	146
15 years . . . . .	913	15.1	6,056	21	92	93	178	529	1,777	2,361	852	125	13	–	15
16 years . . . . .	1,686	14.5	11,654	41	172	154	312	1,007	3,374	4,565	1,739	243	20	6	21
17 years . . . . .	2,648	13.8	19,145	74	249	238	483	1,604	5,349	7,643	3,020	436	22	4	23
18 years . . . . .	3,861	13.9	27,817	100	329	348	729	2,355	7,808	10,877	4,474	678	81	8	30
19 years . . . . .	4,984	13.8	36,279	123	439	495	918	3,009	9,655	14,365	6,082	1,011	110	15	57
20–24 years . . . . .	25,500	13.0	196,268	730	2,228	2,386	4,856	15,300	49,599	76,813	36,184	6,970	838	114	250
25–29 years . . . . .	17,182	12.3	139,947	557	1,733	1,816	3,341	9,735	31,287	53,465	29,962	6,744	958	146	203
30–34 years . . . . .	13,021	13.4	97,529	495	1,431	1,471	2,601	7,023	20,197	35,739	21,850	5,546	907	120	149
35–39 years . . . . .	7,712	15.5	49,889	200	865	904	1,652	4,091	10,553	17,226	10,784	2,965	476	76	97
40–44 years . . . . .	2,007	16.9	11,895	64	171	237	470	1,065	2,632	4,086	2,400	632	114	15	9
45–54 years . . . . .	137	21.3	642	2	14	21	38	62	138	200	126	37	4	–	–

See footnotes at end of table.

**Table 45. Number and percentage low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 2003—Con.**

Age and race and Hispanic origin of mother	Low birthweight <sup>1</sup>		Total	Birthweight <sup>2</sup>											Not stated
	Number	Percent		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	
<b>Non-Hispanic black</b>															
All ages . . . . .	77,947	13.6	576,033	2,350	7,575	7,998	15,211	44,813	138,440	218,901	112,139	23,992	3,340	484	790
Under 15 years . . . . .	423	16.0	2,642	20	40	40	75	248	784	986	402	38	3	–	6
15–19 years . . . . .	13,738	14.1	97,509	342	1,250	1,296	2,562	8,288	27,154	38,392	15,462	2,364	229	32	138
15 years . . . . .	884	15.1	5,852	21	90	88	175	510	1,726	2,279	818	120	13	–	12
16 years . . . . .	1,637	14.6	11,247	37	165	151	307	977	3,277	4,396	1,660	234	17	6	20
17 years . . . . .	2,575	14.0	18,431	70	238	230	472	1,565	5,169	7,352	2,884	406	20	3	22
18 years . . . . .	3,779	14.1	26,915	98	323	343	710	2,305	7,601	10,502	4,282	639	76	8	28
19 years . . . . .	4,863	13.9	35,064	116	434	484	898	2,931	9,381	13,863	5,818	965	103	15	56
20–24 years . . . . .	24,899	13.2	189,020	707	2,179	2,333	4,735	14,945	48,011	73,795	34,567	6,620	786	109	233
25–29 years . . . . .	16,668	12.5	133,821	544	1,694	1,772	3,228	9,430	30,194	51,072	28,330	6,332	895	142	188
30–34 years . . . . .	12,667	13.6	93,346	480	1,396	1,432	2,523	6,836	19,462	34,164	20,738	5,202	865	112	136
35–39 years . . . . .	7,484	15.7	47,661	195	837	872	1,606	3,974	10,166	16,383	10,230	2,798	446	74	80
40–44 years . . . . .	1,933	16.9	11,419	60	165	232	445	1,031	2,532	3,923	2,290	605	112	15	9
45–54 years . . . . .	135	22.0	615	2	14	21	37	61	137	186	120	33	4	–	–
<b>Hispanic<sup>5</sup></b>															
All ages . . . . .	60,973	6.7	912,329	1,037	4,140	5,366	11,655	38,775	157,583	366,508	252,230	63,688	9,619	1,246	482
Under 15 years . . . . .	244	10.4	2,356	5	24	24	36	155	556	1,045	444	61	5	–	1
15–19 years . . . . .	10,120	7.9	128,524	160	669	853	1,834	6,604	27,891	55,455	29,109	5,255	565	60	69
15 years . . . . .	610	9.0	6,818	16	50	60	110	374	1,552	3,021	1,409	194	25	2	5
16 years . . . . .	1,303	8.6	15,151	15	91	129	256	812	3,520	6,566	3,163	524	57	8	10
17 years . . . . .	2,054	8.2	24,986	28	147	171	348	1,360	5,533	10,756	5,573	952	93	11	14
18 years . . . . .	2,791	7.8	35,927	40	174	226	503	1,848	7,866	15,574	8,050	1,472	146	12	16
19 years . . . . .	3,362	7.4	45,642	61	207	267	617	2,210	9,420	19,538	10,914	2,113	244	27	24
20–24 years . . . . .	17,173	6.3	273,311	254	1,075	1,339	3,052	11,453	50,176	114,882	72,521	16,079	2,105	225	150
25–29 years . . . . .	14,624	5.9	246,361	274	975	1,266	2,780	9,329	38,964	97,748	72,557	19,065	2,921	364	118
30–34 years . . . . .	11,122	6.6	169,054	209	813	1,075	2,277	6,748	25,497	63,815	50,866	14,839	2,460	370	85
35–39 years . . . . .	5,914	7.8	75,801	104	455	601	1,272	3,482	11,665	27,649	22,118	6,939	1,281	190	45
40–44 years . . . . .	1,641	10.2	16,172	29	119	190	374	929	2,692	5,689	4,432	1,399	272	35	12
45–54 years . . . . .	135	18.0	750	2	10	18	30	75	142	225	183	51	10	2	2

– Quantity zero.

<sup>1</sup>Less than 2,500 grams (5 lb 8 oz).

<sup>2</sup>Equivalents of gram weights in terms of pounds and ounces are shown in "Technical Notes."

<sup>3</sup>Includes races other than white and black and origin not stated.

<sup>4</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."

<sup>5</sup>Includes all persons of Hispanic origin of any race.

**Table 46. Number and percentage of births of low birthweight, by race and Hispanic origin of mother: United States, each State and territory, 2003**

[By place of residence. Low birthweight is birthweight of less than 2,500 grams (5 lb 8 oz)]

State	Number						Percent					
	All races <sup>1</sup>	White		Black		Hispanic <sup>3</sup>	All races <sup>1</sup>	White		Black		Hispanic <sup>3</sup>
		Total <sup>2</sup>	Non-Hispanic	Total <sup>2</sup>	Non-Hispanic			Total <sup>2</sup>	Non-Hispanic	Total <sup>2</sup>	Non-Hispanic	
United States <sup>4</sup> . . . . .	324,064	223,612	163,331	80,088	77,947	60,973	7.9	6.9	7.0	13.4	13.6	6.7
Alabama . . . . .	5,923	3,271	3,084	2,588	2,583	194	10.0	8.0	8.1	14.4	14.5	6.7
Alaska . . . . .	600	369	255	39	24	39	6.0	5.7	5.2	9.7	9.1	5.1
Arizona . . . . .	6,414	5,410	2,696	368	320	2,727	7.1	6.9	6.9	11.3	12.1	6.9
Arkansas . . . . .	3,348	2,247	2,044	1,053	1,048	205	8.9	7.6	7.7	14.6	14.6	6.3
California . . . . .	35,628	26,554	10,183	3,965	3,842	16,172	6.6	6.1	6.1	12.3	12.4	6.0
Colorado . . . . .	6,224	5,432	3,720	457	439	1,783	9.0	8.6	8.8	15.6	15.7	8.3
Connecticut . . . . .	3,218	2,435	1,791	617	600	651	7.5	6.9	6.4	11.9	12.5	8.6
Delaware . . . . .	1,068	616	511	411	407	106	9.4	7.8	7.8	14.2	14.3	7.7
District of Columbia . . . . .	833	136	113	677	627	73	10.9	6.5	6.1	12.9	13.7	7.6
Florida . . . . .	18,007	11,231	7,532	6,206	6,103	3,791	8.5	7.1	7.2	13.1	13.2	6.9
Georgia . . . . .	12,205	6,223	5,104	5,606	5,480	1,047	9.0	7.1	7.4	13.0	13.0	5.7
Hawaii . . . . .	1,554	339	277	71	64	219	8.6	6.7	6.5	12.2	13.3	8.4
Idaho . . . . .	1,413	1,363	1,163	8	8	191	6.5	6.5	6.5	*	*	6.5
Illinois . . . . .	15,081	9,780	7,098	4,546	4,518	2,709	8.3	6.9	7.1	14.4	14.4	6.4
Indiana . . . . .	6,767	5,404	4,993	1,239	1,236	400	7.9	7.2	7.3	13.3	13.3	5.9
Iowa . . . . .	2,512	2,242	2,087	168	168	155	6.6	6.3	6.3	13.1	13.3	6.2
Kansas . . . . .	2,908	2,406	2,068	354	349	334	7.4	6.9	7.1	12.8	12.8	6.1
Kentucky . . . . .	4,809	4,071	3,949	660	659	121	8.7	8.2	8.3	13.6	13.7	6.2
Louisiana . . . . .	6,944	2,885	2,760	3,910	3,901	133	10.7	7.7	7.7	14.9	14.9	7.9
Maine . . . . .	904	874	863	13	13	10	6.5	6.5	6.6	*	*	*
Maryland . . . . .	6,782	3,148	2,766	3,250	3,145	490	9.1	7.0	7.1	12.7	13.0	7.0
Massachusetts . . . . .	6,095	4,745	4,024	903	773	812	7.6	7.2	7.0	10.5	11.8	8.3
Michigan . . . . .	10,706	7,134	6,473	3,171	3,149	504	8.2	6.9	6.9	14.1	14.1	6.6
Minnesota . . . . .	4,374	3,430	3,152	550	539	252	6.2	5.8	5.8	10.3	10.3	5.1
Mississippi . . . . .	4,846	1,988	1,948	2,825	2,825	39	11.4	8.6	8.6	15.2	15.2	7.2
Missouri . . . . .	6,169	4,538	4,340	1,492	1,473	214	8.0	7.1	7.2	13.4	13.4	6.1
Montana . . . . .	776	650	606	7	7	35	6.8	6.6	6.5	*	*	9.2
Nebraska . . . . .	1,792	1,547	1,318	168	166	212	6.9	6.6	6.8	11.5	11.5	6.1
Nevada . . . . .	2,716	2,053	1,204	381	366	855	8.1	7.4	7.7	13.1	13.3	7.0
New Hampshire . . . . .	895	832	772	26	21	31	6.2	6.1	6.1	10.7	12.2	5.9
New Jersey . . . . .	9,498	6,095	4,350	2,543	2,345	1,935	8.1	7.1	7.0	12.6	13.3	7.3
New Mexico . . . . .	2,346	1,984	707	82	75	1,288	8.5	8.5	8.2	15.6	16.0	8.7
New York . . . . .	19,985	12,534	8,745	5,748	5,347	4,124	7.9	6.8	6.6	12.0	12.2	7.5
North Carolina . . . . .	10,631	6,348	5,368	3,852	3,837	990	9.0	7.3	7.6	14.2	14.2	6.2
North Dakota . . . . .	517	436	417	10	9	8	6.5	6.3	6.4	*	*	*
Ohio . . . . .	12,477	9,124	8,727	3,060	3,021	387	8.3	7.4	7.4	13.5	13.6	7.2
Oklahoma . . . . .	3,951	2,913	2,579	632	621	347	7.8	7.3	7.5	13.7	13.6	6.1
Oregon . . . . .	2,822	2,470	2,018	119	113	449	6.1	5.9	6.1	11.7	11.6	5.3
Pennsylvania . . . . .	11,718	8,278	7,464	2,985	2,629	960	8.1	7.0	6.9	13.7	14.0	8.9
Rhode Island . . . . .	1,127	891	566	149	137	221	8.5	8.0	7.8	11.9	12.3	8.9
South Carolina . . . . .	5,595	2,758	2,533	2,750	2,740	235	10.1	7.6	7.8	15.0	15.0	6.4
South Dakota . . . . .	732	581	552	9	9	32	6.6	6.5	6.4	*	*	9.4
Tennessee . . . . .	7,380	4,858	4,565	2,404	2,391	302	9.4	8.0	8.1	14.8	14.8	6.1
Texas . . . . .	29,745	22,937	10,054	5,692	5,631	12,886	7.9	7.1	7.3	13.6	13.7	7.0
Utah . . . . .	3,260	3,054	2,556	58	52	496	6.5	6.5	6.4	15.2	15.3	7.0
Vermont . . . . .	460	451	445	2	2	4	7.0	7.1	7.1	*	*	*
Virginia . . . . .	8,297	4,890	4,287	2,887	2,835	652	8.2	6.8	6.9	12.8	13.0	6.3
Washington . . . . .	4,843	3,756	3,001	404	338	744	6.0	5.7	5.6	10.1	11.1	5.6
West Virginia . . . . .	1,808	1,705	1,686	86	86	10	8.6	8.5	8.5	12.0	12.1	*
Wisconsin . . . . .	4,764	3,638	3,314	884	873	341	6.8	6.0	6.0	13.6	13.6	6.2
Wyoming . . . . .	597	558	503	3	3	58	8.9	8.9	8.9	*	*	8.7
Puerto Rico . . . . .	5,815	5,266	---	545	---	---	11.5	11.4	---	11.9	---	---
Virgin Islands . . . . .	164	28	6	134	103	32	10.8	8.0	*	11.7	11.3	9.4
Guam . . . . .	301	13	11	2	2	2	9.2	*	*	*	*	*
American Samoa . . . . .	67	---	---	---	---	---	4.2	*	---	*	---	---
Northern Marianas . . . . .	103	---	---	---	---	---	7.6	*	---	*	---	---

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator. --- Data not available. -- Quantity zero.

<sup>1</sup>Includes races other than white and black and origin not stated.<sup>2</sup>Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. California, Hawaii, Ohio (for December), Pennsylvania, Utah, and Washington reported multiple-race data in 2003. The multiple-race data for these States were bridged to the single-race categories of the 1977 Office of Management and Budget standards for comparability with other States; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>3</sup>Includes all persons of Hispanic origin of any race.<sup>4</sup>Excludes data for the territories.

**Table 47. Number and percentage of births of very low birthweight, by race and Hispanic origin of mother: United States, each State and territory, 2003**

[By place of residence. Very low birthweight is birthweight of less than 1,500 grams (3 lb 4 oz)]

State	Number						Percent					
	All races <sup>1</sup>	White		Black		Hispanic <sup>3</sup>	All races <sup>1</sup>	White		Black		Hispanic <sup>3</sup>
		Total <sup>2</sup>	Non-Hispanic	Total <sup>2</sup>	Non-Hispanic			Total <sup>2</sup>	Non-Hispanic	Total <sup>2</sup>	Non-Hispanic	
United States <sup>4</sup> . . . . .	59,217	37,862	27,409	18,396	17,923	10,543	1.4	1.2	1.2	3.1	3.1	1.2
Alabama . . . . .	1,197	568	530	622	620	39	2.0	1.4	1.4	3.5	3.5	1.3
Alaska . . . . .	95	57	31	4	2	5	0.9	0.9	0.6	*	*	*
Arizona . . . . .	994	837	429	66	63	415	1.1	1.1	1.1	2.0	2.4	1.0
Arkansas . . . . .	610	373	346	229	229	27	1.6	1.3	1.3	3.2	3.2	0.8
California . . . . .	6,293	4,694	1,726	842	810	2,929	1.2	1.1	1.0	2.6	2.6	1.1
Colorado . . . . .	890	757	499	98	93	267	1.3	1.2	1.2	3.4	3.3	1.2
Connecticut . . . . .	626	441	323	161	160	118	1.5	1.2	1.2	3.1	3.3	1.6
Delaware . . . . .	231	121	101	102	102	20	2.0	1.5	1.5	3.5	3.6	1.4
District of Columbia . . . . .	169	21	14	144	140	12	2.2	1.0	*	2.7	3.1	*
Florida . . . . .	3,292	1,847	1,185	1,355	1,331	678	1.6	1.2	1.1	2.9	2.9	1.2
Georgia . . . . .	2,373	1,030	839	1,290	1,251	184	1.7	1.2	1.2	3.0	3.0	1.0
Hawaii . . . . .	252	51	40	19	19	46	1.4	1.0	0.9	*	*	1.8
Idaho . . . . .	224	214	180	1	1	32	1.0	1.0	1.0	*	*	1.1
Illinois . . . . .	2,914	1,741	1,265	1,062	1,056	479	1.6	1.2	1.3	3.4	3.4	1.1
Indiana . . . . .	1,211	895	834	301	301	59	1.4	1.2	1.2	3.2	3.2	0.9
Iowa . . . . .	436	395	361	34	34	34	1.1	1.1	1.1	2.6	2.7	1.4
Kansas . . . . .	441	356	303	71	71	55	1.1	1.0	1.0	2.6	2.6	1.0
Kentucky . . . . .	847	688	670	148	148	18	1.5	1.4	1.4	3.1	3.1	*
Louisiana . . . . .	1,398	455	438	919	915	20	2.2	1.2	1.2	3.5	3.5	1.2
Maine . . . . .	159	157	152	2	2	5	1.1	1.2	1.2	*	*	*
Maryland . . . . .	1,386	536	462	812	794	90	1.9	1.2	1.2	3.2	3.3	1.3
Massachusetts . . . . .	1,093	815	690	216	189	130	1.4	1.2	1.2	2.5	2.9	1.3
Michigan . . . . .	2,155	1,332	1,210	771	764	99	1.6	1.3	1.3	3.4	3.4	1.3
Minnesota . . . . .	742	563	508	118	115	46	1.1	0.9	0.9	2.2	2.2	0.9
Mississippi . . . . .	952	314	305	633	633	9	2.2	1.4	1.3	3.4	3.4	*
Missouri . . . . .	1,215	811	770	380	375	45	1.6	1.3	1.3	3.4	3.4	1.3
Montana . . . . .	120	100	90	1	1	6	1.1	1.0	1.0	*	*	*
Nebraska . . . . .	310	261	223	37	36	37	1.2	1.1	1.1	2.5	2.5	1.1
Nevada . . . . .	431	314	194	74	72	117	1.3	1.1	1.2	2.6	2.6	1.0
New Hampshire . . . . .	165	150	138	9	8	7	1.1	1.1	1.1	*	*	*
New Jersey . . . . .	1,840	1,101	751	629	586	390	1.6	1.3	1.2	3.1	3.3	1.5
New Mexico . . . . .	318	263	119	14	12	146	1.1	1.1	1.4	*	*	1.0
New York . . . . .	3,846	2,207	1,468	1,385	1,299	792	1.5	1.2	1.1	2.9	3.0	1.4
North Carolina . . . . .	2,099	1,111	927	924	922	185	1.8	1.3	1.3	3.4	3.4	1.2
North Dakota . . . . .	86	74	70	4	4	1	1.1	1.1	1.1	*	*	*
Ohio . . . . .	2,325	1,545	1,462	729	717	77	1.6	1.3	1.2	3.2	3.2	1.4
Oklahoma . . . . .	608	433	378	117	114	58	1.2	1.1	1.1	2.5	2.5	1.0
Oregon . . . . .	465	417	339	24	23	76	1.0	1.0	1.0	2.4	2.4	0.9
Pennsylvania . . . . .	2,252	1,524	1,336	671	583	201	1.5	1.3	1.2	3.1	3.1	1.9
Rhode Island . . . . .	227	179	115	30	27	42	1.7	1.6	1.6	2.4	2.4	1.7
South Carolina . . . . .	1,149	507	470	628	625	40	2.1	1.4	1.4	3.4	3.4	1.1
South Dakota . . . . .	120	92	85	1	1	7	1.1	1.0	1.0	*	*	*
Tennessee . . . . .	1,316	778	738	521	517	44	1.7	1.3	1.3	3.2	3.2	0.9
Texas . . . . .	5,121	3,734	1,680	1,237	1,231	2,053	1.4	1.2	1.2	3.0	3.0	1.1
Utah . . . . .	516	479	395	14	13	84	1.0	1.0	1.0	*	*	1.2
Vermont . . . . .	75	74	73	1	1	1	1.1	1.2	1.2	*	*	*
Virginia . . . . .	1,590	869	773	643	635	104	1.6	1.2	1.2	2.8	2.9	1.0
Washington . . . . .	790	613	485	73	52	128	1.0	0.9	0.9	1.8	1.7	1.0
West Virginia . . . . .	282	264	261	14	14	1	1.3	1.3	1.3	*	*	*
Wisconsin . . . . .	897	639	572	215	211	76	1.3	1.1	1.0	3.3	3.3	1.4
Wyoming . . . . .	74	65	56	1	1	9	1.1	1.0	1.0	*	*	*
Puerto Rico . . . . .	706	618	---	88	---	---	1.4	1.3	---	1.9	---	---
Virgin Islands . . . . .	37	6	---	30	19	5	2.4	*	*	2.6	*	*
Guam . . . . .	45	2	2	---	---	---	1.4	*	*	*	*	*
American Samoa . . . . .	10	---	---	---	---	---	*	*	---	*	---	---
Northern Marianas . . . . .	9	---	---	---	---	---	*	*	---	*	---	---

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator. -- Quantity zero. --- Data not available.

<sup>1</sup>Includes races other than white and black and origin not stated.<sup>2</sup>Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. California, Hawaii, Ohio (for December), Pennsylvania, Utah, and Washington reported multiple-race data in 2003. The multiple-race data for these States were bridged to the single-race categories of the 1977 Office of Management and Budget standards for comparability with other States; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>3</sup>Includes all persons of Hispanic origin of any race.<sup>4</sup>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: Total of 48 States and the District of Columbia, 2003**

[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 <sup>1</sup>	Abnormal condition reported	Age of mother							Not stated <sup>2</sup>
			All ages	Under 20 years	20–24 years	25–29 years	30–34 years	35–39 years	40–54 years	
All races <sup>3</sup>										
Anemia . . . . .	3,863,502	3,604	0.9	1.0	0.9	0.9	0.9	1.0	1.2	22,046
Birth injury <sup>4</sup> . . . . .	3,460,109	9,774	2.8	3.1	3.0	2.8	2.9	2.4	2.5	21,979
Fetal alcohol syndrome <sup>5</sup> . . . . .	3,793,462	132	0.0	*	0.0	0.0	0.0	0.0	*	21,963
Hyaline membrane disease/RDS . . . . .	3,863,502	23,214	6.0	6.6	6.3	5.8	5.7	6.1	6.9	22,046
Meconium aspiration syndrome . . . . .	3,863,502	4,788	1.2	1.5	1.4	1.2	1.1	1.2	1.5	22,046
Assisted ventilation less than 30 minutes <sup>6</sup> . . . . .	3,743,733	79,727	21.4	21.6	20.3	20.8	22.2	23.1	24.1	21,364
Assisted ventilation 30 minutes or longer <sup>6</sup> . . . . .	3,743,733	34,699	9.3	10.8	9.2	8.6	8.9	10.1	12.0	21,364
Seizures . . . . .	3,863,502	1,755	0.5	0.5	0.5	0.4	0.4	0.4	0.6	22,046
White										
Anemia . . . . .	3,040,873	2,668	0.9	0.9	0.8	0.9	0.9	1.0	1.1	18,133
Birth injury <sup>4</sup> . . . . .	2,695,955	8,043	3.0	3.4	3.2	3.0	3.0	2.5	2.5	18,081
Fetal alcohol syndrome <sup>5</sup> . . . . .	2,980,629	90	0.0	*	*	*	0.0	*	*	18,053
Hyaline membrane disease/RDS . . . . .	3,040,873	18,626	6.2	6.5	6.3	6.0	5.9	6.3	7.1	18,133
Meconium aspiration syndrome . . . . .	3,040,873	3,583	1.2	1.5	1.4	1.1	1.1	1.0	1.5	18,133
Assisted ventilation less than 30 minutes <sup>6</sup> . . . . .	2,971,066	64,570	21.9	21.6	20.4	21.2	22.9	23.9	24.8	17,639
Assisted ventilation 30 minutes or longer <sup>6</sup> . . . . .	2,971,066	26,782	9.1	10.3	8.9	8.5	8.8	9.8	12.1	17,639
Seizures . . . . .	3,040,873	1,415	0.5	0.5	0.5	0.5	0.4	0.4	0.6	18,133
Black										
Anemia . . . . .	573,776	724	1.3	1.0	1.1	1.3	1.5	1.5	1.8	2,356
Birth injury <sup>4</sup> . . . . .	530,423	897	1.7	1.8	1.8	1.6	1.6	1.7	*	2,345
Fetal alcohol syndrome <sup>5</sup> . . . . .	567,282	28	0.0	*	*	*	*	*	*	2,355
Hyaline membrane disease/RDS . . . . .	573,776	3,702	6.5	6.9	6.6	5.9	6.4	7.0	6.7	2,356
Meconium aspiration syndrome . . . . .	573,776	909	1.6	1.5	1.4	1.7	1.6	2.1	1.8	2,356
Assisted ventilation less than 30 minutes <sup>6</sup> . . . . .	540,060	11,323	21.1	22.1	20.4	20.5	20.9	22.7	23.5	2,274
Assisted ventilation 30 minutes or longer <sup>6</sup> . . . . .	540,060	6,309	11.7	12.0	11.1	10.9	12.5	14.2	13.0	2,274
Seizures . . . . .	573,776	247	0.4	0.4	0.4	0.4	0.4	0.5	*	2,356

\* 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.

<sup>1</sup>Total number of births to residents of areas reporting specified abnormal condition.<sup>2</sup>No response reported for the abnormal condition item.<sup>3</sup>Includes races other than white and black.<sup>4</sup>Nebraska and Texas do not report this condition.<sup>5</sup>Wisconsin does not report this condition.<sup>6</sup>New York City does not report this condition.

NOTES: Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes." Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

[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 <sup>1</sup>	Congenital anomaly reported	Age of mother							Not stated <sup>2</sup>
			All ages	Under 20 years	20–24 years	25–29 years	30–34 years	35–39 years	40–54 years	
All races <sup>3</sup>										
Anencephalus . . . . .	4,062,129	460	11.4	14.0	12.7	10.1	12.5	8.0	*	20,877
Spina bifida/Meningocele . . . . .	4,062,129	755	18.7	18.3	20.6	19.7	16.2	15.8	26.5	20,877
Hydrocephalus <sup>4</sup> . . . . .	3,835,681	847	22.2	28.4	23.5	20.5	20.9	20.1	24.2	22,705
Microcephalus <sup>4</sup> . . . . .	3,835,681	214	5.6	6.6	5.7	4.6	4.7	7.6	*	22,705
Other central nervous system anomalies <sup>4</sup> . . . . .	3,835,681	803	21.1	21.5	21.2	19.6	18.7	27.7	25.2	22,705
Heart malformations <sup>4</sup> . . . . .	3,835,681	4,916	128.9	107.6	118.9	123.1	131.9	150.9	247.4	22,705
Other circulatory/respiratory anomalies <sup>4</sup> . . . . .	3,835,681	4,807	126.1	113.5	121.1	115.4	123.2	158.1	220.1	22,705
Rectal atresia/stenosis <sup>4</sup> . . . . .	3,835,681	298	7.8	6.1	8.6	6.7	7.6	9.5	*	22,705
Tracheo-esophageal fistula/Esophageal atresia <sup>4</sup> . . . . .	3,835,681	411	10.8	11.6	10.7	10.9	8.1	13.8	*	22,705
Omphalocele/Gastroschisis . . . . .	4,062,129	1,313	32.5	84.4	47.8	20.9	15.3	16.9	24.6	20,877
Other gastrointestinal anomalies <sup>4</sup> . . . . .	3,835,681	1,259	33.0	40.8	33.4	31.2	28.0	35.3	52.5	22,705
Malformed genitalia <sup>4</sup> . . . . .	3,835,681	3,038	79.7	72.9	76.5	84.4	78.8	82.4	84.8	22,705
Renal agenesis <sup>4</sup> . . . . .	3,835,681	533	14.0	14.2	13.8	13.3	15.7	12.5	*	22,705
Other urogenital anomalies <sup>4</sup> . . . . .	3,835,681	3,438	90.2	79.5	84.3	87.2	95.9	104.8	104.0	22,705
Cleft lip/palate . . . . .	4,062,129	3,066	75.9	73.8	86.4	76.4	64.4	73.3	92.9	20,877
Polydactyly/Syndactyly/Adactyly <sup>4</sup> . . . . .	3,835,681	2,915	76.4	102.1	87.8	72.5	63.8	60.9	87.8	22,705
Clubfoot <sup>4</sup> . . . . .	3,835,681	2,198	57.6	64.6	65.3	58.4	49.0	51.2	55.5	22,705
Diaphragmatic hernia <sup>4</sup> . . . . .	3,835,681	436	11.4	9.1	10.8	12.0	11.0	14.1	*	22,705
Other musculoskeletal/integumental anomalies <sup>4</sup> . . . . .	3,835,681	7,937	208.2	248.4	222.5	202.6	190.0	186.9	223.1	22,705
Down's syndrome . . . . .	4,062,129	1,881	46.5	25.1	26.0	26.1	37.4	111.6	336.5	20,877
Other chromosomal anomalies <sup>4</sup> . . . . .	3,835,681	1,147	30.1	21.5	22.7	24.1	26.8	54.2	122.2	22,705
White										
Anencephalus . . . . .	3,202,564	364	11.4	13.8	12.3	11.0	12.1	8.5	*	16,132
Spina bifida/Meningocele . . . . .	3,202,564	630	19.8	20.5	20.5	21.0	17.5	17.8	27.2	16,132
Hydrocephalus <sup>4</sup> . . . . .	3,017,589	660	22.0	29.3	23.8	19.9	20.5	20.0	*	18,140
Microcephalus <sup>4</sup> . . . . .	3,017,589	148	4.9	*	5.0	4.1	3.8	7.1	*	18,140
Other central nervous system anomalies <sup>4</sup> . . . . .	3,017,589	642	21.4	20.5	21.9	20.0	19.3	27.1	29.0	18,140
Heart malformations <sup>4</sup> . . . . .	3,017,589	3,688	123.0	102.5	113.1	117.8	125.2	142.1	234.8	18,140
Other circulatory/respiratory anomalies <sup>4</sup> . . . . .	3,017,589	3,759	125.3	115.6	124.5	112.5	119.5	155.2	220.9	18,140
Rectal atresia/stenosis <sup>4</sup> . . . . .	3,017,589	251	8.4	*	8.5	7.3	8.3	10.8	*	18,140
Tracheo-esophageal fistula/Esophageal atresia <sup>4</sup> . . . . .	3,017,589	350	11.7	14.1	10.8	12.3	8.3	14.5	*	18,140
Omphalocele/Gastroschisis . . . . .	3,202,564	1,039	32.6	96.3	48.7	20.7	15.2	15.7	*	16,132
Other gastrointestinal anomalies <sup>4</sup> . . . . .	3,017,589	1,002	33.4	41.0	35.4	30.8	29.0	34.8	48.0	18,140
Malformed genitalia <sup>4</sup> . . . . .	3,017,589	2,543	84.8	76.7	81.4	89.8	83.4	89.9	83.3	18,140
Renal agenesis <sup>4</sup> . . . . .	3,017,589	438	14.6	16.6	14.1	13.1	16.6	13.7	*	18,140
Other urogenital anomalies <sup>4</sup> . . . . .	3,017,589	2,855	95.2	85.6	89.2	90.4	99.9	115.0	103.5	18,140
Cleft lip/palate . . . . .	3,202,564	2,617	82.1	85.8	97.2	83.0	67.7	74.6	89.8	16,132
Polydactyly/Syndactyly/Adactyly <sup>4</sup> . . . . .	3,017,589	1,620	54.0	64.0	59.7	51.4	50.3	44.8	66.9	18,140
Clubfoot <sup>4</sup> . . . . .	3,017,589	1,872	62.4	72.1	71.7	61.9	53.6	57.1	51.7	18,140
Diaphragmatic hernia <sup>4</sup> . . . . .	3,017,589	366	12.2	9.9	12.0	12.8	11.7	14.3	*	18,140
Other musculoskeletal/integumental anomalies <sup>4</sup> . . . . .	3,017,589	5,152	171.8	206.1	180.7	168.1	157.4	158.6	194.4	18,140
Down's syndrome . . . . .	3,202,564	1,631	51.2	30.0	27.3	28.7	41.0	120.9	360.3	16,132
Other chromosomal anomalies <sup>4</sup> . . . . .	3,017,589	916	30.5	22.6	24.4	21.3	27.1	57.3	123.7	18,140 <sup>5</sup>

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, 2003—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 <sup>1</sup>	Congenital anomaly reported	Age of mother							Not stated <sup>2</sup>
			All ages	Under 20 years	20–24 years	25–29 years	30–34 years	35–39 years	40–54 years	
Black										
Anencephalus . . . . .	599,315	61	10.2	*	12.3	*	*	*	*	2,532
Spina bifida/Meningocele . . . . .	599,315	95	15.9	*	21.0	16.5	*	*	*	2,532
Hydrocephalus <sup>4</sup> . . . . .	573,244	144	25.2	24.4	24.6	25.5	26.9	*	*	2,613
Microcephalus <sup>4</sup> . . . . .	573,244	51	8.9	*	*	*	*	*	*	2,613
Other central nervous system anomalies <sup>4</sup> . . . . .	573,244	112	19.6	24.4	14.4	19.5	*	*	*	2,613
Heart malformations <sup>4</sup> . . . . .	573,244	915	160.3	119.9	135.8	168.3	195.0	208.9	327.8	2,613
Other circulatory/respiratory anomalies <sup>4</sup> . . . . .	573,244	677	118.6	104.6	98.4	120.9	137.9	162.5	201.7	2,613
Rectal atresia/stenosis <sup>4</sup> . . . . .	573,244	33	5.8	*	*	*	*	*	*	2,613
Tracheo-esophageal fistula/Esophageal atresia <sup>4</sup> . . . . .	573,244	43	7.5	*	*	*	*	*	*	2,613
Omphalocele/Gastroschisis . . . . .	599,315	224	37.5	54.2	42.5	26.6	23.7	*	*	2,532
Other gastrointestinal anomalies <sup>4</sup> . . . . .	573,244	189	33.1	36.6	27.3	36.8	23.7	46.4	*	2,613
Malformed genitalia <sup>4</sup> . . . . .	573,244	323	56.6	59.9	56.2	57.1	51.7	54.9	*	2,613
Renal agenesis <sup>4</sup> . . . . .	573,244	67	11.7	*	11.8	16.5	*	*	*	2,613
Other urogenital anomalies <sup>4</sup> . . . . .	573,244	358	62.7	54.9	56.2	69.9	73.3	57.0	*	2,613
Cleft lip/palate . . . . .	599,315	244	40.9	28.1	36.9	43.1	45.4	48.4	*	2,532
Polydactyly/Syndactyly/Adactyly <sup>4</sup> . . . . .	573,244	1181	207.0	211.3	209.1	212.6	195.0	189.9	235.3	2,613
Clubfoot <sup>4</sup> . . . . .	573,244	238	41.7	43.7	44.9	45.1	31.2	*	*	2,613
Diaphragmatic hernia <sup>4</sup> . . . . .	573,244	52	9.1	*	*	*	*	*	*	2,613
Other musculoskeletal/integumental anomalies <sup>4</sup> . . . . .	573,244	2291	401.5	375.9	386.7	421.4	417.0	405.1	487.5	2,613
Down's syndrome . . . . .	599,315	168	28.2	*	21.0	15.8	22.7	76.6	265.0	2,532
Other chromosomal anomalies <sup>4</sup> . . . . .	573,244	163	28.6	*	17.6	38.3	32.3	*	*	2,613

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

<sup>1</sup>Total number of births to residents of areas reporting specified congenital anomaly.<sup>2</sup>No response reported for the congenital anomalies item.<sup>3</sup>Includes races other than white and black.<sup>4</sup>Excludes data for Pennsylvania and Washington, which implemented the 2003 Revision to the U.S. Standard Certificate of Live Birth for data year 2003. This change has resulted in a lack of comparability between data based on the 2003 Revision and data based on the 1989 Revision to the U.S. Certificate of Live Birth; see "Technical Notes."

NOTES: Excludes data for New Mexico, which did not report congenital anomalies. Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Management and Budget standards. 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, 2003**

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						
All live births		Number									
All races <sup>1</sup>	4,089,950	6,661	414,580	134,384	280,196	1,032,305	1,086,366	975,546	467,642	101,005	5,845
White total <sup>2</sup>	3,225,848	3,677	298,347	92,576	205,771	790,910	871,496	795,902	379,773	81,031	4,712
Non-Hispanic white	2,321,904	1,399	172,620	46,803	125,817	522,275	627,437	626,315	303,354	64,600	3,904
Black total <sup>2</sup>	599,847	2,726	100,951	36,855	64,096	196,268	139,947	97,529	49,889	11,895	642
Non-Hispanic black	576,033	2,642	97,509	35,530	61,979	189,020	133,821	93,346	47,661	11,419	615
Hispanic <sup>3</sup>	912,329	2,356	128,524	46,955	81,569	273,311	246,361	169,054	75,801	16,172	750
Live births in single deliveries											
All races <sup>1</sup>	3,953,622	6,588	408,155	132,574	275,581	1,008,698	1,052,490	934,283	443,355	95,493	4,560
White total <sup>2</sup>	3,117,818	3,646	294,172	91,462	202,710	774,749	844,743	761,360	359,261	76,293	3,594
Non-Hispanic white	2,234,291	1,389	170,035	46,168	123,867	510,878	606,336	596,838	285,449	60,464	2,902
Black total <sup>2</sup>	578,564	2,684	98,908	36,224	62,684	189,610	134,532	93,244	47,536	11,492	558
Non-Hispanic black	555,392	2,605	95,521	34,923	60,598	182,516	128,575	89,208	45,399	11,037	531
Hispanic <sup>3</sup>	892,073	2,332	126,892	46,454	80,438	268,472	240,679	164,105	73,291	15,631	671
Live births in twin deliveries											
All races <sup>1</sup>	128,665	73	6,371	1,794	4,577	23,107	32,150	38,248	22,372	5,178	1,166
White total <sup>2</sup>	101,297	31	4,134	1,101	3,033	15,801	25,270	31,812	18,773	4,463	1,013
Non-Hispanic white	81,691	10	2,565	628	1,937	11,115	19,805	27,041	16,356	3,890	909
Black total <sup>2</sup>	20,633	42	2,032	628	1,404	6,538	5,231	4,114	2,234	369	73
Non-Hispanic black	20,010	37	1,977	604	1,373	6,390	5,067	3,975	2,143	348	73
Hispanic <sup>3</sup>	19,472	24	1,611	495	1,116	4,761	5,492	4,673	2,326	515	70
Live births in higher order multiple deliveries <sup>4</sup>											
All races <sup>1</sup>	7,663	–	54	16	38	500	1,726	3,015	1,915	334	119
White total <sup>2</sup>	6,733	–	41	13	28	360	1,483	2,730	1,739	275	105
Non-Hispanic white	5,922	–	20	7	13	282	1,296	2,436	1,549	246	93
Black total <sup>2</sup>	650	–	11	3	8	120	184	171	119	34	11
Non-Hispanic black	631	–	11	3	8	114	179	163	119	34	11
Hispanic <sup>3</sup>	784	–	21	6	15	78	190	276	184	26	9
All multiple births		Ratio per 1,000 live births									
All races <sup>1</sup>	33.3	11.0	15.5	13.5	16.5	22.9	31.2	42.3	51.9	54.6	219.8
White total <sup>2</sup>	33.5	8.4	14.0	12.0	14.9	20.4	30.7	43.4	54.0	58.5	237.3
Non-Hispanic white	37.7	*	15.0	13.6	15.5	21.8	33.6	47.1	59.0	64.0	256.7
Black total <sup>2</sup>	35.5	15.4	20.2	17.1	22.0	33.9	38.7	43.9	47.2	33.9	130.8
Non-Hispanic black	35.8	14.0	20.4	17.1	22.3	34.4	39.2	44.3	47.5	33.5	136.6
Hispanic <sup>3</sup>	22.2	10.2	12.7	10.7	13.9	17.7	23.1	29.3	33.1	33.5	105.3
Twin births											
All races <sup>1</sup>	31.5	11.0	15.4	13.3	16.3	22.4	29.6	39.2	47.8	51.3	199.5
White total <sup>2</sup>	31.4	8.4	13.9	11.9	14.7	20.0	29.0	40.0	49.4	55.1	215.0
Non-Hispanic white	35.2	*	14.9	13.4	15.4	21.3	31.6	43.2	53.9	60.2	232.8
Black total <sup>2</sup>	34.4	15.4	20.1	17.0	21.9	33.3	37.4	42.2	44.8	31.0	113.7
Non-Hispanic black	34.7	14.0	20.3	17.0	22.2	33.8	37.9	42.6	45.0	30.5	118.7
Hispanic <sup>3</sup>	21.3	10.2	12.5	10.5	13.7	17.4	22.3	27.6	30.7	31.8	93.3
Higher-order multiple births <sup>4</sup>		Ratio per 100,000 live births									
All races <sup>1</sup>	187.4	*	13.0	*	13.6	48.4	158.9	309.1	409.5	330.7	2,035.9
White total <sup>2</sup>	208.7	*	13.7	*	13.6	45.5	170.2	343.0	457.9	339.4	2,228.4
Non-Hispanic white	255.0	*	11.6	*	*	54.0	206.6	388.9	510.6	380.8	2,382.2
Black total <sup>2</sup>	108.4	*	*	*	*	61.1	131.5	175.3	238.5	285.8	*
Non-Hispanic black	109.5	*	*	*	*	60.3	133.8	174.6	249.7	297.7	*
Hispanic <sup>3</sup>	85.9	*	16.3	*	*	28.5	77.1	163.3	242.7	160.8	*

– Quantity zero.

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

<sup>1</sup>Includes races other than white and black and origin not stated.<sup>2</sup>Race and Hispanic origin are reported separately on the birth certificate. Race categories are consistent with the 1977 Office of Management and Budget standards. Data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race; see "Technical Notes."<sup>3</sup>Includes all persons of Hispanic origin of any race.<sup>4</sup>Births in greater than twin deliveries.

## Technical Notes

### Source of data

Data shown in this report for 2003 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 the percentage 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 following 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.

### The 1989 and 2003 Revisions of the U.S. Standard Certificates of Live Birth

This report is based on data items from the 1989 revision of the U.S. Standard Certificate of Live Birth but includes data for two States, Pennsylvania and Washington, which implemented the 2003 revision of the U.S. Standard Certificate of Live Birth in 2003 (revised), as well as data from the other 48 States and the District of Columbia, which collected and reported 2003 data based on the 1989 revision of the U.S. Standard Certificate of Live Birth (unrevised). The 2003 revision is described in detail elsewhere (5,6); a forthcoming report will present information on the new data items. Where comparable, revised data from Pennsylvania and Washington are combined with data from the remaining 48 States and the District of Columbia. Where data for the 1989 and 2003 certificate revisions are not comparable (e.g., educational attainment of the mother), data for Pennsylvania and Washington are excluded from the national totals for 2003 and any earlier years discussed. Each table and figure includes information on nonreporting areas for all items and specific checkboxes. The 48 States reporting area and the District of Columbia, which reported based on the 1989 revision, accounted for 94 percent of U.S. births in 2003. Comparability of selected data items is discussed below.

This report excludes information on **mother’s educational attainment** for Pennsylvania and Washington. The 1989 and 2003 certificate items on educational attainment are too dissimilar for these data to be reliably combined. The 1989 certificate item asks for the highest *grade* completed, whereas the 2003 certificate item asks for the highest *degree* or level of school completed (e.g., high school diploma or bachelor’s degree). See [tables 13, 14, 21, and 31](#).

Pennsylvania and Washington data on **tobacco use during pregnancy** are also excluded from this report. The 2003 standard certificate asks for the number of cigarettes smoked at different intervals before and during the pregnancy. In comparison, the 1989 standard certificate tobacco-use-during-pregnancy question had a yes or no option and asked for the average number of cigarettes per day without specifying timing during pregnancy. See [section on “Tobacco use” in these notes and tables 24, 25, and 29–32](#).

For this report, measures of **prenatal care** exclude data for Pennsylvania and Washington. The exclusion of data for these States

from the U.S. totals was necessary because of changes in the wording of the prenatal care item on the 2003 certificate and also likely substantive changes in the sources of these data. The timing of the prenatal care item was modified from Month prenatal care began to Date of first prenatal visit. In addition, the 2003 revision process resulted in the recommendation that information on prenatal care be gathered from the prenatal care or medical records, whereas the 1989 revision did not recommend a source for this data. See [tables 24, 25, 33–35](#).

Despite substantive changes to the **method of delivery** item between the 1989 and 2003 revisions of the birth certificate, data for revised and unrevised States are combined for all national figures shown in this report. The total numbers and percentages of vaginal and cesarean deliveries appear to be very consistent between revisions. However, information on whether the delivery is a VBAC, primary cesarean, or repeat cesarean appears to be less comparable. This is because of wording and formatting changes designed to collect data on whether the mother had a previous cesarean delivery. The new format includes a direct question on whether the mother had had a previous cesarean delivery, whereas the old did not. In brief, revised data for Pennsylvania and Washington show higher-than-expected VBAC and primary cesarean rates and lower-than-expected repeat cesarean rates. These slight incongruities for Pennsylvania and Washington data have no appreciable impact on national rates and are included in national figures shown in this report. However, measures that incorporate these data to compare changes across revisions for individual States should be interpreted with caution.

Both the 1989 and 2003 Standard Certificates of Live Birth use a checkbox format for collecting much of the **medical and health information** available on the birth certificate. However, a number of individual checkbox items included on the 1989 certificate were dropped from the revised certificate. In addition, definitions for some items were modified for the 2003 revision, resulting in data that are not comparable across revisions. Tables are footnoted to identify reporting areas for the specific checkboxes. See [tables 26–28, 36, 37, 42, 48, and 49](#).

### 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, and 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 over 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 imputed for ages 9 years or under and 55 years and over. 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 2003 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.

**Table I. Percentage of birth records on which specified items were not stated: United States and each State and territory, 2003**

[By place of residence]

Area	All births	Place of birth	Attendant at birth	Mother's birthplace	Father's age	Father's race	Hispanic origin	
							Mother	Father
Total of reporting areas <sup>1</sup> . . . . .	4,089,950	0.0	0.2	0.4	13.4	14.7	0.7	14.1
Alaska . . . . .	10,086	0.0	0.3	0.8	11.5	15.3	17.6	20.5
Alabama . . . . .	59,552	—	0.0	0.0	20.2	20.3	0.1	20.1
Arkansas . . . . .	37,784	—	0.0	0.3	19.7	21.1	0.2	19.8
Arizona . . . . .	90,967	0.0	0.0	0.1	23.0	26.2	1.8	24.3
California . . . . .	540,997	0.0	0.0	0.4	7.2	7.5	1.1	7.1
Colorado . . . . .	69,339	0.0	—	0.5	8.0	8.6	0.0	8.6
Connecticut . . . . .	42,873	0.0	0.1	0.5	9.8	10.9	0.5	10.3
Delaware . . . . .	11,329	0.0	0.1	0.3	32.6	33.7	0.4	32.7
District of Columbia . . . . .	7,619	0.0	—	0.0	35.3	44.6	0.2	35.4
Florida . . . . .	212,250	0.0	0.0	0.1	16.8	17.1	0.2	18.3
Georgia . . . . .	135,979	0.0	0.0	0.2	16.9	17.6	1.7	18.4
Hawaii . . . . .	18,100	—	0.1	0.2	8.9	12.5	0.2	8.9
Iowa . . . . .	38,174	—	0.0	0.0	13.8	15.3	0.2	15.1
Idaho . . . . .	21,800	0.0	0.0	0.5	9.2	12.3	0.7	11.8
Illinois . . . . .	182,495	0.0	0.0	0.2	13.5	14.7	0.1	14.6
Indiana . . . . .	86,434	0.0	0.1	0.1	13.0	13.0	0.4	13.3
Kansas . . . . .	39,476	—	0.0	0.1	9.7	10.4	1.1	11.4
Kentucky . . . . .	55,236	0.0	0.2	0.0	19.2	21.9	0.1	22.3
Louisiana . . . . .	65,040	0.0	0.0	0.0	19.5	19.6	0.1	19.5
Massachusetts . . . . .	80,184	—	0.0	0.0	7.3	8.0	0.5	7.2
Maryland . . . . .	74,930	—	0.0	0.2	12.3	16.0	0.1	12.9
Maine . . . . .	13,855	—	0.0	—	8.9	12.7	0.4	13.1
Michigan . . . . .	131,094	0.0	0.1	0.1	14.0	16.5	1.9	17.5
Minnesota . . . . .	70,050	—	0.0	0.2	10.2	13.5	0.9	13.7
Missouri . . . . .	77,045	0.0	0.0	0.3	16.7	19.0	0.1	18.0
Mississippi . . . . .	42,380	0.0	0.1	0.1	20.6	20.9	0.1	13.7
Montana . . . . .	11,422	0.0	0.1	0.0	9.6	11.0	1.7	12.4
North Carolina . . . . .	118,323	—	0.0	0.0	15.7	15.9	0.1	15.8
North Dakota . . . . .	7,972	—	—	—	8.5	8.7	2.1	10.6
Nebraska . . . . .	25,917	—	—	—	12.5	14.5	2.2	14.6
New Hampshire . . . . .	14,393	—	—	0.0	5.5	7.7	4.2	11.1
New Jersey . . . . .	116,983	0.0	0.0	0.2	7.4	8.9	0.2	7.7
New Mexico . . . . .	27,821	—	—	1.2	21.0	20.7	0.0	20.7
Nevada . . . . .	33,647	—	0.0	0.6	22.3	23.9	0.9	22.7
New York . . . . .	253,714	0.0	0.0	0.4	12.8	13.2	0.3	13.0
Ohio . . . . .	149,679	0.0	0.0	0.3	15.3	16.0	0.3	15.4
Oklahoma . . . . .	50,981	0.0	0.0	0.0	16.0	17.4	0.2	17.1
Oregon . . . . .	45,953	—	0.0	0.2	9.8	5.5	0.6	5.6
Pennsylvania . . . . .	145,959	0.0	4.4	4.0	6.3	9.4	1.3	5.7
Rhode Island . . . . .	13,209	0.0	—	0.4	13.1	13.7	12.9	22.6
South Carolina . . . . .	55,649	0.0	0.0	0.2	27.0	27.2	0.1	27.0
South Dakota . . . . .	11,027	—	0.0	0.0	10.1	10.9	0.1	13.8
Tennessee . . . . .	78,890	—	0.0	0.1	15.3	15.6	0.0	15.3
Texas . . . . .	377,476	0.0	0.0	0.4	13.8	14.2	0.3	14.1
Utah . . . . .	49,860	0.0	0.0	0.2	8.9	10.3	0.4	9.7
Virginia . . . . .	101,254	—	0.0	0.1	16.1	18.5	0.2	16.2
Vermont . . . . .	6,589	—	—	0.2	6.8	9.1	0.7	9.4
Washington . . . . .	80,489	0.0	0.1	0.1	9.1	23.3	2.7	12.9
Wisconsin . . . . .	70,040	—	—	0.1	30.0	30.1	0.0	30.0
West Virginia . . . . .	20,935	0.1	0.0	0.1	14.2	14.4	0.4	14.4
Wyoming . . . . .	6,700	—	0.0	0.1	15.4	15.7	0.3	15.7
Puerto Rico . . . . .	50,696	—	0.1	—	3.1	4.1	—	—
Virgin Islands . . . . .	1,522	0.1	0.9	—	18.1	18.7	9.2	56.4
Guam . . . . .	3,281	0.1	1.2	0.4	20.8	21.0	2.3	28.2
American Samoa . . . . .	1,608	0.1	0.6	3.5	37.9	37.9	—	—
Northern Marianas . . . . .	1,349	—	0.7	—	9.4	8.5	—	—

See footnotes at end of table.

**Table I. Percentage of birth records on which specified items were not stated: United States and each State and territory, 2003—Con.**

[By place of residence]

Area	Educational attainment of mother	Live-birth order	Length of gestation	Month prenatal care began	Number of prenatal visits
Total of reporting areas <sup>1</sup> . . . . .	1.4	0.3	1.1	<sup>2</sup> 1.8	2.9
Alabama . . . . .	0.2	0.0	0.1	0.3	0.4
Alaska . . . . .	3.9	4.8	0.8	5.9	11.3
Arizona . . . . .	1.6	0.2	0.1	1.4	2.6
Arkansas . . . . .	0.6	0.1	0.3	1.4	2.1
California . . . . .	2.4	0.1	<sup>3</sup> 6.9	1.7	2.9
Colorado . . . . .	0.9	0.0	0.0	1.5	2.0
Connecticut . . . . .	0.6	0.0	0.1	0.7	1.8
Delaware . . . . .	3.0	0.3	0.1	2.6	0.6
District of Columbia . . . . .	6.4	0.2	0.2	9.1	5.6
Florida . . . . .	0.9	0.0	0.1	1.1	2.0
Georgia . . . . .	2.4	0.2	0.1	1.1	1.0
Hawaii . . . . .	1.1	0.1	0.2	2.5	2.3
Idaho . . . . .	5.1	0.2	0.2	3.7	2.0
Illinois . . . . .	1.3	0.5	0.2	4.0	4.4
Indiana . . . . .	0.7	0.1	0.0	1.1	1.6
Iowa . . . . .	0.2	0.0	0.1	0.3	0.4
Kansas . . . . .	0.3	0.0	0.1	0.7	1.0
Kentucky . . . . .	0.4	0.1	0.1	1.0	1.4
Louisiana . . . . .	0.1	0.1	0.2	0.3	0.3
Maine . . . . .	1.0	0.3	0.0	0.3	0.4
Maryland . . . . .	1.5	0.4	0.2	1.5	2.1
Massachusetts . . . . .	0.3	0.2	0.1	1.7	0.5
Michigan . . . . .	2.3	0.4	0.1	2.4	3.3
Minnesota . . . . .	1.8	0.5	0.3	4.4	5.5
Mississippi . . . . .	0.3	0.1	0.2	0.8	1.6
Missouri . . . . .	0.9	1.0	0.2	2.1	4.7
Montana . . . . .	0.5	0.1	0.1	0.6	0.6
Nebraska . . . . .	0.1	0.0	0.1	0.3	0.2
Nevada . . . . .	2.9	1.2	0.9	6.3	7.7
New Hampshire . . . . .	1.4	0.2	0.1	1.2	1.2
New Jersey . . . . .	2.4	0.1	0.1	2.2	1.3
New Mexico . . . . .	2.5	0.9	0.3	4.8	4.9
New York . . . . .	1.2	0.3	0.1	2.9	1.9
North Carolina . . . . .	0.3	0.1	0.0	0.9	1.0
North Dakota . . . . .	0.3	0.1	0.1	0.9	0.8
Ohio . . . . .	1.3	0.5	0.0	1.2	2.6
Oklahoma . . . . .	0.4	0.1	0.2	2.3	2.4
Oregon . . . . .	2.9	0.0	0.0	1.3	0.1
Pennsylvania . . . . .	<sup>4</sup> †	1.1	0.9	<sup>4</sup> 19.4	8.9
Rhode Island . . . . .	2.6	1.9	0.3	8.3	14.0
South Carolina . . . . .	0.7	0.1	0.1	1.6	1.7
South Dakota . . . . .	0.0	0.0	0.0	0.2	0.3
Tennessee . . . . .	0.4	0.1	0.3	2.3	2.7
Texas . . . . .	1.5	0.4	0.4	1.4	3.7
Utah . . . . .	1.5	0.4	0.0	3.3	3.3
Vermont . . . . .	0.5	0.1	0.1	4.5	0.9
Virginia . . . . .	1.3	0.0	0.0	0.2	1.2
Washington . . . . .	<sup>4</sup> †	1.3	0.3	<sup>4</sup> 27.1	13.7
West Virginia . . . . .	1.5	0.1	0.1	2.9	1.0
Wisconsin . . . . .	0.4	0.0	0.0	0.2	0.3
Wyoming . . . . .	0.6	0.0	0.1	0.8	0.9
Puerto Rico . . . . .	0.3	0.0	0.1	0.2	0.1
Virgin Islands . . . . .	1.3	0.5	0.3	0.5	1.4
Guam . . . . .	0.7	0.8	0.0	0.7	0.7
American Samoa . . . . .	---	—	---	---	---
Northern Marianas . . . . .	6.2	1.3	0.3	1.0	0.5

See footnotes at end of table.

**Table I. Percentage of birth records on which specified items were not stated: United States and each State and territory, 2003—Con.**

[By place of residence]

Area	Birthweight	5-minute Apgar score	Medical risk factors	Tobacco use	Alcohol use	Weight gain
Total of reporting areas <sup>1</sup> . . . . .	0.1	0.4	0.5	0.6	0.6	5.8
Alabama . . . . .	0.1	0.2	0.0	0.0	0.1	2.1
Alaska . . . . .	0.2	1.6	8.2	1.3	1.4	9.2
Arizona . . . . .	0.1	0.5	0.0	1.9	2.1	14.6
Arkansas . . . . .	0.0	3.2	0.1	0.3	0.4	9.0
California . . . . .	0.0	---	0.0	---	---	---
Colorado . . . . .	0.1	0.3	0.0	0.1	0.1	2.3
Connecticut . . . . .	0.0	0.1	0.2	0.1	0.1	1.4
Delaware . . . . .	0.0	0.2	0.0	2.5	2.5	0.9
District of Columbia . . . . .	0.0	0.3	0.0	0.1	0.1	11.5
Florida . . . . .	0.0	0.2	0.0	0.1	0.1	5.5
Georgia . . . . .	0.0	0.4	0.4	0.2	0.2	8.0
Hawaii . . . . .	0.1	0.5	0.0	0.1	0.1	13.0
Idaho . . . . .	0.1	0.5	0.2	2.2	2.2	6.1
Illinois . . . . .	0.1	0.3	0.0	0.2	0.1	5.4
Indiana . . . . .	0.4	0.3	0.0	<sup>5</sup> 0.2	0.2	2.1
Iowa . . . . .	0.1	0.3	0.0	0.1	0.1	0.5
Kansas . . . . .	0.0	0.6	<sup>6</sup> 0.0	0.1	0.1	0.2
Kentucky . . . . .	0.1	0.4	2.5	2.0	2.5	6.3
Louisiana . . . . .	0.1	0.4	0.2	0.2	0.2	4.7
Maine . . . . .	0.1	0.2	0.1	0.5	0.7	1.0
Maryland . . . . .	0.0	0.3	0.0	0.4	0.4	2.9
Massachusetts . . . . .	0.1	0.2	0.3	0.2	0.2	0.7
Michigan . . . . .	0.1	0.3	0.0	1.0	1.0	6.5
Minnesota . . . . .	0.1	0.3	5.6	4.6	4.7	11.8
Mississippi . . . . .	0.1	0.2	0.2	0.2	0.2	4.9
Missouri . . . . .	0.1	0.5	0.1	0.4	0.4	4.1
Montana . . . . .	0.1	0.4	0.0	0.8	1.2	1.4
Nebraska . . . . .	0.0	0.1	0.0	0.1	0.1	1.7
Nevada . . . . .	0.0	1.6	1.4	2.2	2.3	8.9
New Hampshire . . . . .	0.1	0.1	0.0	0.3	0.3	3.5
New Jersey . . . . .	0.1	0.3	0.3	1.6	1.7	1.3
New Mexico . . . . .	0.3	3.5	0.0	1.6	1.7	6.5
New York . . . . .	0.1	0.2	1.4	<sup>5</sup> 0.5	0.5	5.0
North Carolina . . . . .	0.1	0.3	0.0	0.1	0.2	2.6
North Dakota . . . . .	0.1	0.3	0.3	0.3	0.7	2.6
Ohio . . . . .	0.1	0.2	0.0	0.5	0.5	3.3
Oklahoma . . . . .	0.1	0.9	2.0	1.0	1.1	3.3
Oregon . . . . .	0.0	0.4	0.8	2.3	2.4	2.5
Pennsylvania . . . . .	0.4	1.0	0.0	†	---	13.6
Rhode Island . . . . .	0.2	0.3	6.5	2.0	2.2	15.4
South Carolina . . . . .	0.0	0.2	0.0	0.2	0.2	2.2
South Dakota . . . . .	0.0	0.2	—	<sup>7</sup> 0.1	<sup>7</sup> 0.1	0.7
Tennessee . . . . .	0.1	0.3	0.0	0.2	0.2	10.0
Texas . . . . .	0.1	---	<sup>8</sup> 0.6	0.2	0.2	8.9
Utah . . . . .	0.1	0.2	0.2	0.9	0.9	3.6
Vermont . . . . .	0.6	0.2	0.0	0.7	0.3	1.2
Virginia . . . . .	0.1	0.2	0.0	0.1	0.1	2.8
Washington . . . . .	0.4	0.4	5.4	†	---	14.2
West Virginia . . . . .	0.1	0.3	0.3	1.3	1.5	6.1
Wisconsin . . . . .	0.1	0.4	0.1	0.1	0.1	1.9
Wyoming . . . . .	0.1	0.2	0.0	0.2	0.3	1.9
Puerto Rico . . . . .	0.0	0.2	0.0	0.0	0.0	0.0
Virgin Islands . . . . .	0.3	2.9	5.9	2.5	2.5	19.8
Guam . . . . .	0.2	1.2	0.6	0.4	0.4	1.6
American Samoa . . . . .	—	---	---	---	---	---
Northern Marianas . . . . .	0.1	1.1	1.1	<sup>7</sup> —	<sup>7</sup> —	---

See footnotes at end of table.

**Table I. Percentage of birth records on which specified items were not stated: United States and each State and territory, 2003—Con.**

[By place of residence]

Area	Obstetric procedures <sup>9</sup>	Complications of labor and/or delivery <sup>10</sup>	Method of delivery	Abnormal conditions of newborn	Congenital anomalies
Total of reporting areas <sup>1</sup> . . . . .	0.3	0.4	0.5	0.6	0.5
Alabama . . . . .	0.0	0.0	0.6	0.0	0.0
Alaska . . . . .	7.7	8.4	0.3	9.4	9.5
Arizona . . . . .	0.0	0.0	0.5	0.0	0.3
Arkansas . . . . .	0.0	0.0	0.4	0.0	0.0
California . . . . .	0.0	0.0	0.0	0.0	0.0
Colorado . . . . .	0.0	0.0	0.0	0.0	0.1
Connecticut . . . . .	0.0	0.0	0.2	0.8	0.9
Delaware . . . . .	0.0	0.0	0.0	2.4	0.0
District of Columbia . . . . .	0.0	0.0	0.1	0.1	0.0
Florida . . . . .	0.0	0.0	0.7	0.0	0.0
Georgia . . . . .	0.0	0.0	0.6	0.0	0.0
Hawaii . . . . .	0.0	0.0	0.7	0.1	0.0
Idaho . . . . .	0.2	0.4	0.4	2.1	0.3
Illinois . . . . .	0.0	0.0	0.6	0.0	0.0
Indiana . . . . .	0.0	0.0	0.6	0.0	0.0
Iowa . . . . .	0.0	0.0	0.7	0.1	0.1
Kansas . . . . .	0.0	0.0	0.2	0.0	0.1
Kentucky . . . . .	1.7	2.4	2.3	3.4	2.7
Louisiana . . . . .	0.2	0.2	0.2	0.2	0.2
Maine . . . . .	0.1	0.1	0.2	0.1	0.1
Maryland . . . . .	0.0	—	0.3	0.3	0.0
Massachusetts . . . . .	0.3	0.3	0.3	0.3	0.8
Michigan . . . . .	0.0	0.0	0.5	0.0	0.0
Minnesota . . . . .	3.8	5.6	1.3	7.3	7.4
Mississippi . . . . .	0.1	0.1	0.5	0.1	0.1
Missouri . . . . .	0.1	0.1	0.7	0.1	0.1
Montana . . . . .	0.0	0.0	0.3	0.2	0.0
Nebraska . . . . .	0.0	0.0	0.3	<sup>11</sup> 0.0	0.0
Nevada . . . . .	1.0	1.7	1.4	1.3	1.4
New Hampshire . . . . .	0.0	0.0	0.3	0.0	0.0
New Jersey . . . . .	0.0	0.1	0.9	1.9	0.5
New Mexico . . . . .	0.0	0.0	0.4	0.0	—
New York . . . . .	0.3	0.4	0.5	<sup>12</sup> 1.4	1.2
North Carolina . . . . .	0.0	0.0	0.5	0.0	0.0
North Dakota . . . . .	0.3	0.3	1.9	0.8	0.5
Ohio . . . . .	0.0	0.0	0.8	0.3	0.0
Oklahoma . . . . .	1.2	2.0	1.5	4.0	4.5
Oregon . . . . .	0.0	0.0	0.5	1.3	0.0
Pennsylvania . . . . .	0.0	0.0	0.2	<sup>4</sup> †	0.0
Rhode Island . . . . .	6.4	6.5	0.2	14.9	14.0
South Carolina . . . . .	0.0	0.0	1.0	0.0	0.0
South Dakota . . . . .	0.0	0.0	0.6	0.0	0.0
Tennessee . . . . .	0.0	0.0	0.7	0.0	0.0
Texas . . . . .	0.0	<sup>13</sup> 0.0	0.7	<sup>11</sup> 0.0	0.0
Utah . . . . .	0.0	0.0	0.5	0.1	0.1
Vermont . . . . .	0.0	0.0	0.2	0.0	0.0
Virginia . . . . .	0.0	0.0	0.5	0.2	0.0
Washington . . . . .	5.9	6.0	0.0	<sup>4</sup> †	3.5
West Virginia . . . . .	0.2	0.3	0.4	0.9	0.1
Wisconsin . . . . .	0.0	0.0	0.0	<sup>14</sup> 0.1	0.1
Wyoming . . . . .	0.0	0.0	0.2	0.0	0.0

See footnotes at end of table.



**Table I. Percentage of birth records on which specified items were not stated: United States and each State and territory, 2003—Con.**

[By place of residence]

Area	Obstetric procedures <sup>9</sup>	Complications of labor and/or delivery <sup>10</sup>	Method or delivery	Abnormal conditions of newborn	Congenital anomalies
Puerto Rico . . . . .	0.0	0.0	0.0	0.0	0.0
Virgin Islands . . . . .	2.0	7.6	1.9	7.7	8.5
Guam. . . . .	0.3	0.8	0.1	0.2	0.4
American Samoa . . . . .	---	---	---	---	---
Northern Marianas . . . . .	0.6	0.6	2.4	2.3	1.2

0.0 Quantity more than zero but less than 0.05.

- Quantity zero.

- - - Data not available.

† Data not shown.

<sup>1</sup>Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas.<sup>2</sup>Excludes data for Pennsylvania and Washington.<sup>3</sup>California reports date last normal menses began but does not report clinical estimate of gestation.<sup>4</sup>Data for Pennsylvania and Washington, which were implemented the 2003 Revision to the U.S. Certificate for 2003, are not compatible with data for all other jurisdictions, which are based on the 1989 Revision.<sup>5</sup>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.<sup>6</sup>Kansas does not report Rh sensitization.<sup>7</sup>South Dakota and the Commonwealth of the Northern Marianas report tobacco and alcohol use but do not report the average number of cigarettes smoked per day or the average number of drinks per week.<sup>8</sup>Texas does not report genital herpes and uterine bleeding.<sup>9</sup>The percent not stated for induction of labor and tocolysis may differ slightly from levels shown here because of formatting differences between the 1989 and 2003 revisions of the Certificate of Live Birth.<sup>10</sup>The percent not stated for meconium, precipitous labor, and malpresentation may differ slightly from levels shown here because of formatting differences between the 1989 and 2003 revisions of the Certificate of Live Birth.<sup>11</sup>Nebraska and Texas do not report birth injury.<sup>12</sup>New York City does not report assisted ventilation less than 30 minutes and assisted ventilation of 30 minutes or more.<sup>13</sup>Texas does not report anesthetic complications and fetal distress.<sup>14</sup>Wisconsin does not report fetal alcohol syndrome.

## Hispanic origin and race

### Hispanic origin

Hispanic origin and race are reported separately on the birth certificate. Data for specified Hispanic groups 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 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. 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 these tabulations, data for non-Hispanic persons are classified according to the race of the mother because of substantial differences in fertility and maternal and infant health characteristics 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 (132). Puerto Rico, American Samoa, and the Northern Marianas do not collect this information. The percentage of records for which Hispanic origin of the parents was not reported in 2003 is shown by State in [table I](#).

### Single, multiple, and bridged race of mother and father

In 1997 the Office of Management and Budget (OMB) issued "Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity," which revised the "1977 Statistical Policy Directive 15, Race and Ethnic Standards for Federal Statistics and Administrative Reporting" (8-10). These documents specify guidelines for collection, tabulation, and presentation of race and ethnicity data within the Federal statistical system. The 1997 revised standards incorporated two major changes designed to reflect the changing racial and ethnic profile of the United States. First, the revision increased from four to five the minimum set of categories to be used by Federal agencies for identification of race. The 1977 standards required Federal agencies to report race-specific tabulations using a minimum set of four single-race categories: American Indian or Alaska Native (AIAN), Asian or Pacific Islander (API), black, and white. The five categories for race specified in the 1997 standards are as follows: AIAN, Asian, black or African American, Native Hawaiian or Other Pacific Islander, and white. The revised standards called for reporting Asians separately from Native Hawaiians or Other Pacific Islanders. Collection of additional detail on race and ethnicity is permitted, as before, so long as the additional categories can be aggregated into the minimum categories. The revised standards also require Federal data collection programs to allow respondents to select *one or more race categories*.

For the 2000 decennial census, the U.S. Census Bureau collected race and ethnicity data in accordance with the 1997 revised standards. However, the National Vital Statistics System, which is based on data collected by the States, will not be fully compliant with the new standards until all of the States revise their birth certificates to reflect the new standards. Thus, beginning with the 2000 data year, the numerators (births) for birth rates are incompatible with the denominators (populations) (see "Population denominators"). In order to compute rates, it is necessary to bridge population data for multiple-race

persons to single-race categories. This has been done for birth rates by race presented in this report. Once all States revise their birth registration systems to comply with the 1997 OMB standards, the use of bridged populations can be discontinued.

Beginning with the 2003 data year, multiple race was reported by Pennsylvania and Washington, which used the 2003 revision of the U.S. Standard Certificate of Live Birth, as well as California, Hawaii, Ohio (for births occurring in December only), and Utah, which used the 1989 revision of the U.S. Standard Certificate of Live Birth. These six States, which account for 20.7 percent of births in the United States in 2003, reported 2.6 percent of the mothers as multiracial, with levels varying from 0.7 percent (Ohio) to 37.5 percent (Hawaii). Data from the vital records of the remaining 44 States and the District of Columbia followed the 1977 OMB standards in which a single race is reported (8,9). In addition, these areas also report the minimum set of four races as stipulated in the 1977 standards, compared with the minimum of five races for the 1997 standards.

In order to provide uniformity and comparability of the data during the transition period before multiple-race data are available for all reporting areas, it is necessary to bridge the responses of those who reported more than one race to a single race. The bridging procedure for multiple-race mothers and fathers is based on the procedure used to bridge the multiracial population estimates (see "Population denominators") (10,11). Multiple race is imputed to a single race (one of the following: AIAN, API, black, or white) according to the combination of races, Hispanic origin, sex, and age indicated on the birth certificate of the mother or father. The imputation procedure is described in detail elsewhere (12,13).

As noted previously, the bridging procedure imputes multiple race of mothers to one of the four minimum races stipulated in the 1977 OMB standards: AIAN, API, black, or white. Mothers of a specified API subgroup (i.e., Chinese, Japanese, Hawaiian, or Filipino) in combination with another race (i.e., AIAN, black, or white) or another API subgroup cannot be imputed to a single API subgroup. API mothers are disproportionately represented in the six States reporting multiple race (44 percent in 2003.) For this report, data are not shown for the specified API subgroups because the bridging technique cannot be applied in this detail (14). However, data for the API subgroups, reported alone or in combination with other races or API subgroups, are available in the 2003 Natality public-use data file. In addition, a report on births in 2003 to multiple-race women, which will include births to single- and multiple-race women of the API subgroups, is forthcoming.

Race of mother is reported by 44 States and the District of Columbia in at least eight single-race categories: white, black, AIAN, Chinese, Japanese, Hawaiian, Filipino, and other API. Of these, eight States (Illinois, Minnesota, Missouri, New Jersey, New York, Texas, Virginia, and West Virginia) report data on the expanded API subgroups included in the other API category (Asian Indian, Korean, Samoan, Vietnamese, Guamanian, and remaining API). Finally, six States that report multiple-race data (California, Hawaii, Ohio, Pennsylvania, Utah, and Washington) report a minimum of 14 categories (white, black, AIAN, Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, other Asian, Hawaiian, Guamanian, Samoan, and other Pacific Islander). For this report, as discussed above, the multiple-race combinations (e.g., white and AIAN or black and Chinese) were bridged to one of four broad categories (bridged white, bridged black, bridged

AIAN, and bridged API). Detailed data on race (single or multiple) as reported in the six States are available on the 2003 Natality public-use file.

In 2003 race of mother was not reported for 0.5 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 2003.

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. The reasons for this change are summarized in the *2002 Technical Appendix (4)*.

Trend data by race shown in this report are by race of mother for all years beginning with the 1980 data year. Text references to white births and white mothers or black births and black mothers are used interchangeably for ease in writing.

## Marital status

National estimates of births to unmarried women are based on two methods of determining marital status. For 1994–96 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) that use inferential procedures to compile birth statistics by marital status in 2003, a birth is inferred as nonmarital if any 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. Details of the changes in reporting procedures are described in previous reports (32,133).

The mother's marital status was not reported in 2003 on 0.04 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 is imputed for these records: If father's age was known, the mother was considered married; if the father's age was unknown, the mother was considered unmarried. Prior to 2003, unreported marital status was imputed as married in all cases. Only 834 records were imputed as unmarried in 2003 as a result of the change in imputation, and there was essentially no impact on percentages and rates of nonmarital births.

## Tobacco use

In this report data on whether or not the mother smoked during pregnancy are presented for all States except California, Pennsylvania, and Washington. California did not report this item, and Pennsylvania and Washington implemented the revised birth

certificate (see section on "The comparability of items between the 1989 and 2003 U.S. Standard Certificates of Live Birth"). The areas reporting whether or not the mother smoked during pregnancy make up 81 percent of U.S. births in 2003. Data on the number of cigarettes smoked daily were available in a comparable format for 44 States, the District of Columbia, and New York City. Indiana, New York State (except New York City), Pennsylvania, South Dakota, and Washington reported the number of cigarettes smoked in a format that was not comparable with the 1989 revision of the U.S. Standard Certificate of Live Birth, used by the other reporting areas. California did not report this item. The areas reporting the number of cigarettes smoked made up 76 percent of U.S. births in 2003.

## 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 (134,135).

The U.S. Standard Certificate of Live Birth includes a clinical estimate of gestation item that was compared with length of gestation computed from the date the LMP began when the latter appeared to be inconsistent with birthweight. This was 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 4.6 percent of the births in 2003 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 247 births or 0.006 percent of all birth records in 2003. The levels of the adjustments in 2003 data were similar to those for earlier years (14). Despite these edits, substantial incongruities in these data persist; research is ongoing to address these data deficiencies.

## 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 percentage 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 have never had a cesarean delivery. The denominator for this rate includes the sum of primary cesareans and vaginal births without previous cesarean. The rate for 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. Also, see section on “The comparability of items between the 1989 and 2003 U.S. Standard Certificates of Live Birth.”

### Computations of percentages, 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 percentages, percent distributions, and medians were computed. The percentage 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. 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 2003 shown in [tables 1, 3–6, 8, 9, 13, 14, A, B, and C](#) are based on populations estimated from the 2000 census, as of July 1, 2003. These populations are shown in [tables II and III](#). The population estimates have been provided by the U.S. Census Bureau (16) and are based on the 2000 census counts by age, race, and sex, which have been modified to be consistent with OMB racial categories as of 1977 and historical categories for birth data. The modification procedures are described in detail elsewhere (10,11).

Birth and fertility rates by State shown in [table 10](#) are based on State-level population estimates projected from the 2000 census provided by the U.S. Census Bureau (16). 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 2003 estimates. Rates for unmarried women shown in [tables 17 and 18](#) are based on distributions of the population by marital status as of March 2003 as reported by the U.S. Census Bureau in the March Current Population Survey (CPS) (34), which have been adjusted to July 2003 population levels (16) by the Division of Vital Statistics, NCHS (32). 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, 2003 (16). Rates for Hispanic subgroups are based on special population estimates that are presented in [table III](#) in the “Technical Notes.” More information about the populations for Hispanic subgroups is presented elsewhere (137).

The populations by race used in this report were produced under a collaborative arrangement with the U.S. Census Bureau and are based on the 2000 census counts. Reflecting the new guidelines issued in 1997 by OMB, the 2000 census included an option for individuals to report more than one race as appropriate for themselves and household members (9). In addition, the 1997 OMB guidelines called for reporting of Asian persons separately from Native Hawaiians or other Pacific Islanders. In the earlier 1977 OMB guidelines, data for API persons were collected as a single group (8). Except for six States, birth

**Table II. Estimated total population by race and estimated female population by age and race: United States, 2003**

[Populations estimated as of July 1]

Age	All races	White	Black	American Indian	Asian or Pacific Islander
Total population . . . . .	290,810,789	236,349,420	38,148,112	3,111,067	13,202,190
Female population					
15–44 years . . . . .	61,910,608	48,781,745	9,054,043	737,138	3,337,682
10–14 years . . . . .	10,336,612	8,000,163	1,749,239	150,708	436,502
15–19 years . . . . .	9,959,789	7,795,394	1,583,322	144,926	436,147
15–17 years . . . . .	5,997,800	4,687,044	965,207	87,450	258,099
18–19 years . . . . .	3,961,989	3,108,350	618,115	57,476	178,048
20–24 years . . . . .	10,063,772	7,862,961	1,556,595	133,130	511,086
25–29 years . . . . .	9,395,243	7,294,715	1,394,320	112,534	593,674
30–34 years . . . . .	10,254,869	8,015,352	1,467,416	111,871	660,230
35–39 years . . . . .	10,681,456	8,478,198	1,503,136	114,337	585,785
40–44 years . . . . .	11,555,479	9,335,125	1,549,254	120,340	550,760
45–49 years . . . . .	11,030,309	9,005,159	1,408,560	108,883	507,707

NOTE: These population counts are estimated based on the 2000 census; see “Technical Notes.” Race categories are consistent with the 1977 Office of Management and Budget standards.

SOURCE: U.S. Census Bureau. See reference 16.

**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, 2003**

[Populations estimated as of July 1]

Age	Hispanic					Non-Hispanic		
	Total	Mexican	Puerto Rican	Cuban	Other Hispanic <sup>1</sup>	Total <sup>2</sup>	White	Black
Total population . . . . .	39,899,063	26,526,961	3,861,862	1,496,974	8,013,241	250,911,726	199,214,378	36,508,902
Female population								
15–44 years . . . . .	9,413,358	6,201,474	947,551	240,901	2,023,444	52,497,250	40,061,288	8,639,424
10–14 years . . . . .	1,788,726	1,263,091	186,328	44,904	294,411	8,547,886	6,356,246	1,664,204
15–19 years . . . . .	1,562,601	1,055,394	168,451	28,609	310,150	8,397,188	6,355,772	1,513,477
15–17 years . . . . .	944,433	637,856	106,359	21,225	178,999	5,053,367	3,818,116	922,089
18–19 years . . . . .	618,168	417,538	62,092	7,384	131,151	3,343,821	2,537,656	591,388
20–24 years . . . . .	1,672,471	1,149,488	148,559	34,138	340,289	8,391,301	6,317,351	1,482,135
25–29 years . . . . .	1,706,215	1,171,860	163,684	38,601	332,064	7,689,028	5,711,126	1,319,339
30–34 years . . . . .	1,656,952	1,098,812	167,168	31,143	359,838	8,597,917	6,476,430	1,394,425
35–39 years . . . . .	1,493,028	958,105	152,952	51,382	330,592	9,188,428	7,092,435	1,437,765
40–44 years . . . . .	1,322,091	767,815	146,737	57,028	350,511	10,233,388	8,108,174	1,492,283
45–49 years . . . . .	1,072,103	641,391	104,809	46,835	279,069	9,958,206	8,009,801	1,362,200

<sup>1</sup>Includes Central and South American and other and unknown Hispanic.<sup>2</sup>Includes races other than white and black.

NOTES: These population counts are estimated based on the 2000 census; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget standards.

SOURCE: U.S. Census Bureau. See reference 16.

certificates currently report only one race for each parent in the categories specified in the 1977 OMB guidelines (see "Race and Hispanic origin"). In addition, birth certificate data do not report Asians separately from Native Hawaiians or other Pacific Islanders. Thus, birth certificate data by race (the numerators for birth and fertility rates) currently are largely incompatible with the population data collected in the 2000 census (the denominators for the rates).

To produce birth and fertility rates for 1991 through 2003, it was necessary to bridge the reported population data for multiple-race persons back to single-race categories. In addition, the 2000 census counts were modified to be consistent with the 1977 OMB racial categories, that is, to report the data for Asian persons and Native Hawaiians or other Pacific Islanders as a combined category, APIs (138,139). The procedures used to produce the bridged populations are described in separate publications (10,11). Beginning with births occurring in 2003, several States began reporting multiple-race data. Once all States revise their birth certificates to be compliant with the 1997 OMB standards, the use of bridged populations can be discontinued.

Populations used to calculate the rates for 1991–99 are based on population estimates as of July 1 of each year and were produced by the U.S. Census Bureau, with support from the National Cancer Institute (10,25,139). These intercensal population estimates for 1991–99 are revised based on the April 1, 2000 census. The rates for 1990 and 2000 are based on populations from the censuses in those years as of April 1.

Readers should keep in mind that the population data used to compile birth and fertility rates by race and ethnicity shown in this report are based on special estimation procedures and are not actual counts. This is the case even for the 2000 populations that are based on the 2000 census. As a result, the estimation procedures used to develop these populations may contain some errors. Smaller populations (e.g., American Indians) are likely to be affected much more than larger populations by potential measurement error (10). Although the nature and magnitude of error is unknown, the potential for error should be

kept in mind when evaluating trends and differentials. As more accurate information becomes available, further revisions of the estimates may be necessary.

### 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 (0.7 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.

An asterisk (\*) is shown in place of any derived rate based on fewer than 20 births in the numerator, or a population denominator of less than 50 (unweighted) for decennial years and 75,000 (weighted) for all other years for the Hispanic subgroups. Rates based on populations below these minimum levels lack sufficient reliability for analytic purposes. These guidelines follow the suggestions of the U.S. Census Bureau (140,141). The population estimates for some Hispanic subgroups, especially Cubans, do not meet the above minimum. Therefore, age-specific rates are not shown for some groups. However, summary fertility measures (i.e., crude birth rate, general fertility rate, and total fertility rate) are possible, and these have been included.

**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, although father's age is missing on 13 percent of the

birth certificates, one-quarter 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 1, 5, and 12 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.

### 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 in the registration process 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 (i.e., the comparison of numbers, rates, and percentages over time, for different areas, or among different groups), the number of events that *actually* occurred can be thought of as one outcome in a large series of possible results that *could have* occurred under the same (or similar) circumstances. When considered in this way, the number of births is subject to random variation and a probable range of values 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 percentage 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 show how much the number of events or rates could vary under the same (or similar) circumstances.

Confidence limits for numbers, rates, and percentages can be estimated from the actual number of vital events. Procedures differ for rates and percentages 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.

When the number of vital events is large, the distribution is assumed to follow a normal distribution (where the relative standard error is small). When the number of events is small and the probability of the event is small, the distribution is assumed to follow a Poisson probability distribution. Considerable caution should be observed in interpreting the occurrence of infrequent events.

#### 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 (142). Confidence limits are estimated using the following formulas:

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

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

where

$B$  = number of births

$L$  = the value in table IV that corresponds to the number  $B$

$U$  = the value in table IV that corresponds to the number  $B$

#### Example

Suppose that the number of first births to American Indian women aged 40–44 years was 47. The confidence limits for this number would be as follows:

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

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

This means that the chances are 95 out of 100 that the actual number of first births to American Indian women aged 40–44 years 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 approximate a normal distribution. Formulas for 95-percent confidence limits are as follows:

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

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

where

$B$  = number of births

#### Example

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

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

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

This means that the chances are 95 out of 100 that the actual number of first births to white women aged 40–44 years 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 is used 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. Although this assumption is technically correct *only* for

**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**

N	L	U	N	L	U
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			

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. (See however, discussion of population denominators earlier in the "Technical Notes.")

**95-percent confidence limits for rates based on fewer than 100 events**

When the number of events in the numerator is less than 20 (or the population denominator is less than 50 for decennial years and 75,000 for all other years for the Hispanic subgroups), an asterisk (\*) is shown in place of the rate because there were too few births or the population is too small to compute a statistically reliable rate. When the number of events in the numerator is greater than 20 but less

than 100 (and the population denominator for the Hispanic subgroups is above the minimum), 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 = the value in [table IV](#) that corresponds to the number of events  
B

U = the value in [table IV](#) that corresponds to the number of events  
B

**Example**

Suppose that the first birth rate for American Indian women aged 40–44 years was 0.50 per thousand, based on 47 births in the numerator. Using [table IV](#):

$$\text{Lower limit} = 0.50 \times 0.73476 = 0.37$$

$$\text{Upper limit} = 0.50 \times 1.32979 = 0.66$$

This means that the chances are 95 out of 100 that the actual first birth rate for American Indian women aged 40–44 years lies between 0.37 and 0.66.

**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

$R$  = birth rate

$B$  = number of births

**Example**

Suppose that 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:

$$\begin{aligned} \text{Lower limit} &= 1.55 - [1.96 \times (1.55 / \sqrt{14,108})] \\ &= 1.55 - 0.026 \\ &= 1.52 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= 1.55 + [1.96 \times (1.55 / \sqrt{14,108})] \\ &= 1.55 + 0.026 \\ &= 1.58 \end{aligned}$$

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

**Computing 95-percent confidence intervals for percentages**

In many instances we need to compute the confidence intervals for percentages. Percentages derive from a binomial distribution. As with birth rates, an asterisk (\*) will be shown for any percentage that is based on fewer than 20 births in the numerator. We easily compute a 95-percent confidence interval for a percentage 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 percentage 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 percentage of births to Hispanic women in Arizona that were to unmarried women was 49.7 percent. This was based on 14,751 births in the numerator and 29,682 births in the denominator. First we test to make sure we can use the normal approximation of the binomial:

$$29,682 \times 0.497 = 14,752$$

$$29,682 \times (1 - 0.497) = 29,682 \times 0.503 = 14,930$$

Both 14,752 and 14,930 are greater than 5 so we can proceed. The 95-percent confidence interval would be:

$$\begin{aligned} \text{Lower limit} &= 0.497 - [1.96 \times (\sqrt{0.497 \times 0.503 / 29,682})] \\ &= 0.497 - 0.006 \\ &= 0.491 \text{ or } 49.1 \text{ percent} \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= 0.497 + [1.96 \times (\sqrt{0.497 \times 0.503 / 29,682})] \\ &= 0.497 + 0.006 \\ &= 0.503 \text{ or } 50.3 \text{ percent} \end{aligned}$$

This means that the chances are 95 out of 100 that the actual percentage of births to unmarried Hispanic women in Arizona lies between 49.1 and 50.3 percent.

**Significance testing****One or both 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**

Suppose that the first birth rate for American Indian women aged 40–44 years was 0.70 per 1,000 in year  $X$  and 0.57 in year  $Y$ . Is the rate for year  $X$  significantly higher than the rate for year  $Y$ ? The two rates are based on 63 events in year  $X$  and 54 events in year  $Y$ . Both



rates are based on fewer than 100 events; therefore, the first step is to compute the confidence intervals for both rates.

	Lower Limit	Upper Limit
Year X . . . . .	0.54	0.90
Year Y . . . . .	0.43	0.74

These two confidence intervals overlap. Therefore, the first birth rate for American Indian women aged 40–44 in year X is not significantly higher (at the 95-percent confidence level) than the rate in year Y.

This method of comparing confidence intervals is a conservative test for statistical significance. That is, the difference between two rates may, in fact, be statistically significant even though confidence intervals for the two rates overlap (143). Thus, caution should be observed when interpreting a nonsignificant difference between two rates, especially when the lower and upper limits being compared overlap only slightly.

**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, irrespective of sign (+/-), 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.

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

where

- R<sub>1</sub> = first rate
- R<sub>2</sub> = second rate
- N<sub>1</sub> = first number of births
- N<sub>2</sub> = 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 or equal** to this statistic, the difference might occur by chance more than 5 times out of 100. The difference is said to be not statistically significant at the 95-percent confidence level.

**Example**

Is the first birth rate for black women aged 40–44 years (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 = 0.47. The statistic is then calculated as follows:

$$\begin{aligned} &1.96 \times \sqrt{\frac{1.08^2}{1,535} + \frac{1.55^2}{14,108}} \\ &= 1.96 \times \sqrt{[(1.166/1,535) + (2.403/14,108)]} \\ &= 1.96 \times \sqrt{0.00076 + 0.00017} \\ &= 1.96 \times \sqrt{0.00093} \\ &= 1.96 \times 0.03 \\ &= 0.06 \end{aligned}$$

The difference between the rates (0.47) is greater than this statistic (0.06). Therefore, the difference is statistically significant at the 95-percent confidence level.

**Testing differences between two percentages**

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

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

where

- B<sub>1</sub> = number of births in the denominator of the first percent
- B<sub>2</sub> = number of births in the denominator of the second percent
- $p = \frac{B_1 \times p_1 + B_2 \times p_2}{B_1 + B_2}$
- p<sub>1</sub> = the first percent
- p<sub>2</sub> = the second percent

**Example**

Is the percentage of births to Hispanic women that were to unmarried women higher in New Mexico (50.2) than in Arizona (49.7)? Suppose that the number in the denominator was 13,714 in New Mexico and 29,682 in Arizona. The necessary conditions are met for both percentages (calculations not shown). The difference between the two percentages is 0.502 – 0.497 = 0.005. The statistic is then calculated as follows:

$$\begin{aligned} &1.96 \times \sqrt{0.499 \times (0.501) \times (0.000106609)} = 1.96 \times \sqrt{0.000026652} \\ &= 1.96 \times 0.005162563 \\ &= 0.010 \end{aligned}$$

The difference between the percentages (0.005) is less than this statistic (0.010). Therefore, the difference is not statistically significant at the 95-percent confidence level.

Information on computing confidence intervals for and testing differences among rates for Hispanic subgroups is available elsewhere (137).

**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 delivery, abnormal conditions of the newborn, and

congenital anomalies of the child (figure I). 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 (144).

**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 (e.g., 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 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 birthweight of a previous live-born child was over 4,000+ grams (8 lb 14 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 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.

<p><b>38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY</b> (Check all that apply)</p> <p>Anemia (Hct. &lt;30/Hgb. &lt;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><b>40. COMPLICATIONS OF LABOR AND/OR DELIVERY</b> (Check all that apply)</p> <p>Ferrie (&gt;100°F. or 38°C.) . . . . . 01 <input type="checkbox"/></p> <p>Meconium, moderate/heavy . . . . . 02 <input type="checkbox"/></p> <p>Premature rupture of membrane (&gt;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 (&lt;3 hours) . . . . . 08 <input type="checkbox"/></p> <p>Prolonged labor (&gt;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><b>43. CONGENITAL ANOMALIES OF CHILD</b> (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><b>38b. OTHER RISK FACTORS FOR THIS PREGNANCY</b> (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><b>41. METHOD OF DELIVERY</b> (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><b>39. OBSTETRIC PROCEDURES</b> (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>	<p><b>42. ABNORMAL CONDITIONS OF THE NEWBORN</b> (Check all that apply)</p> <p>Anemia (Hct. &lt;39/Hgb. &lt;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 &lt;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>	

Figure I. Selected maternal and infant health items from the 1989 revision of the U.S. Standard Certificate of Live Birth

*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 (EFM)*—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 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 degrees F. or 38 degrees C. occurring during labor 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 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 that prevents dilation of the cervix 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 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 because of adverse influences that occurred at birth.

*Fetal alcohol syndrome (FAS)*—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 or feet; syndactyly is having fused or webbed fingers or toes; adactyly is the absence of fingers 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 include age of mother (145); Hispanic origin births (132); twin births (120); trends in teenage and young teen births (15,29); cesarean deliveries (146), attendant at birth, place of delivery, and obstetric procedures (88); births to unmarried mothers (32); trends in pregnancies and pregnancy rates (19,20); trends in smoking (147); trends in characteristics of births by State (30); birth outcome (130,148); and trends in reproduction and intrinsic rates (149).

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**Births by cigarette smoking and race and Hispanic origin of mother: 2003 Revised Birth Certificate Reporting area and each State, 2003**

[By place of residence]

Reporting Area	All races <sup>1</sup>	White		Black		American Indian total <sup>2</sup>	Asian or Pacific	Hispanic <sup>3</sup>
		Total	Non-Hispanic	Total	Non-Hispanic			
Cigarettes during Pregnancy	33,295	28,590	26,980	3,821	3,322	484	400	1,775
No Cigarettes during Pregnancy	184,311	149,355	129,977	20,943	17,741	1,830	12,183	21,783
Unknown	8,842	7,030	6,150	1,307	983	70	435	594
Pennsylvania								
Cigarettes during Pregnancy	24,727	21,081	19,955	3,421	2,971	86	139	1,292
No Cigarettes during Pregnancy	115,179	92,602	85,082	17,511	15,123	233	4,833	9,171
Unknown	6,053	4,711	4,222	1,124	880	14	204	369
Washington								
Cigarettes during Pregnancy	8,568	7,509	7,025	400	351	398	261	483
No Cigarettes during Pregnancy	69,132	56,753	44,895	3,432	2,618	1,597	7,350	12,612
Unknown	2,789	2,319	1,928	183	103	56	231	225

<sup>1</sup>Includes births with origin not stated.

<sup>2</sup>Includes births to Aleuts and Eskimos.

<sup>3</sup>Includes all persons of Hispanic origin of any race.

NOTES: Data are for States which implemented the 2003 Standard Certificate of Live Birth. Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Budget guidelines.

**Live births by number of cigarettes per trimester and race and Hispanic origin of mother: 2003 Revised Birth Certificate Reporting area and each State, 2003**

[By place of residence]

Reporting Area	All races <sup>1</sup>	White		Black		American Indian total <sup>2</sup>	Asian or Pacific	Hispanic <sup>3</sup>
		Total	Non-Hispanic	Total	Non-Hispanic			
<b>Before Pregnancy</b>								
0 Cigarettes per day	175,392	141,377	122,471	20,231	17,148	1,739	12,045	21,251
1 to 10 Cigarettes per day	19,522	15,958	14,787	2,830	2,467	352	382	1,363
11 to 20 Cigarettes per day	18,772	17,016	16,279	1,446	1,238	181	129	761
More than 20 Cigarettes per day	3,975	3,636	3,464	267	217	42	30	179
Unknown	8,787	6,988	6,106	1,297	976	70	432	598
<b>First Trimester</b>								
0 Cigarettes per day	185,503	150,331	130,868	21,132	17,900	1,844	12,196	21,882
1 to 10 Cigarettes per day	21,212	17,764	16,706	2,792	2,454	335	321	1,214
11 to 20 Cigarettes per day	9,541	8,663	8,256	710	608	113	55	390
More than 20 Cigarettes per day	1,237	1,110	1,061	96	75	21	10	63
Unknown	8,955	7,107	6,216	1,341	1,009	71	436	603
<b>Second Trimester</b>								
0 Cigarettes per day	189,781	153,940	134,244	21,653	18,362	1,919	12,269	22,159
1 to 10 Cigarettes per day	20,854	17,670	16,689	2,611	2,286	306	267	1,097
11 to 20 Cigarettes per day	6,153	5,649	5,392	390	330	79	35	240
More than 20 Cigarettes per day	661	590	559	58	49	8	5	33
Unknown	8,999	7,126	6,223	1,359	1,019	72	442	623
<b>Third Trimester</b>								
0 Cigarettes per day	190,613	154,694	134,968	21,715	18,416	1,927	12,277	22,179
1 to 10 Cigarettes per day	20,846	17,641	16,657	2,631	2,295	313	261	1,116
11 to 20 Cigarettes per day	5,473	5,040	4,796	329	282	68	36	218
More than 20 Cigarettes per day	583	515	493	58	49	7	3	24
Unknown	8,933	7,085	6,193	1,338	1,004	69	441	615
<b>Pennsylvania</b>								
<b>Before Pregnancy</b>								
0 Cigarettes per day	107,841	86,021	78,846	16,847	14,573	207	4,766	8,755
1 to 10 Cigarettes per day	13,204	10,535	9,775	2,495	2,175	40	134	941
11 to 20 Cigarettes per day	15,383	13,929	13,353	1,346	1,147	49	59	616
More than 20 Cigarettes per day	3,545	3,249	3,111	256	208	22	18	152
Unknown	5,986	4,660	4,174	1,112	871	15	199	368
<b>First Trimester</b>								
0 Cigarettes per day	116,167	93,402	85,812	17,689	15,274	238	4,838	9,251
1 to 10 Cigarettes per day	14,928	12,331	11,632	2,455	2,155	38	104	843
11 to 20 Cigarettes per day	7,634	6,911	6,602	667	571	34	22	307
More than 20 Cigarettes per day	1,088	981	942	90	71	9	8	55
Unknown	6,142	4,769	4,271	1,155	903	14	204	376
<b>Second Trimester</b>								
0 Cigarettes per day	119,399	96,140	88,395	18,144	15,676	249	4,866	9,444
1 to 10 Cigarettes per day	14,967	12,522	11,860	2,317	2,025	40	88	783
11 to 20 Cigarettes per day	4,820	4,415	4,219	368	312	25	12	186
More than 20 Cigarettes per day	588	527	499	55	47	3	3	30
Unknown	6,185	4,790	4,286	1,172	914	16	207	389

**Live births by number of cigarettes per trimester and race and Hispanic origin of mother: 2003 Revised Birth Certificate Reporting area and each State, 2003**

[By place of residence]

	All races <sup>1</sup>	White		Black		American Indian total <sup>2</sup>	Asian or Pacific	Hispanic <sup>3</sup>
		Total	Non-Hispanic	Total	Non-Hispanic			
<b>Third Trimester</b>								
0 Cigarettes per day	119,994	96,676	88,916	18,199	15,724	249	4,870	9,457
1 to 10 Cigarettes per day	15,029	12,555	11,884	2,343	2,040	47	84	802
11 to 20 Cigarettes per day	4,285	3,945	3,757	305	262	21	14	167
More than 20 Cigarettes per day	510	453	434	55	47	1	1	22
Unknown	6,141	4,765	4,268	1,154	901	15	207	384
<b>Washington</b>								
<b>Before Pregnancy</b>								
0 Cigarettes per day	67,551	55,356	43,625	3,384	2,575	1,532	7,279	12,496
1 to 10 Cigarettes per day	6,318	5,423	5,012	335	292	312	248	422
11 to 20 Cigarettes per day	3,389	3,087	2,926	100	91	132	70	145
More than 20 Cigarettes per day	430	387	353	11	9	20	12	27
Unknown	2,801	2,328	1,932	185	105	55	233	230
<b>First Trimester</b>								
0 Cigarettes per day	69,336	56,929	45,056	3,443	2,626	1,606	7,358	12,631
1 to 10 Cigarettes per day	6,284	5,433	5,074	337	299	297	217	371
11 to 20 Cigarettes per day	1,907	1,752	1,654	43	37	79	33	83
More than 20 Cigarettes per day	149	129	119	6	4	12	2	8
Unknown	2,813	2,338	1,945	186	106	57	232	227
<b>Second Trimester</b>								
0 Cigarettes per day	70,382	57,800	45,849	3,509	2,686	1,670	7,403	12,715
1 to 10 Cigarettes per day	5,887	5,148	4,829	294	261	266	179	314
11 to 20 Cigarettes per day	1,333	1,234	1,173	22	18	54	23	54
More than 20 Cigarettes per day	73	63	60	3	2	5	2	3
Unknown	2,814	2,336	1,937	187	105	56	235	234
<b>Third Trimester</b>								
0 Cigarettes per day	70,619	58,018	46,052	3,516	2,692	1,678	7,407	12,722
1 to 10 Cigarettes per day	5,817	5,086	4,773	288	255	266	177	314
11 to 20 Cigarettes per day	1,188	1,095	1,039	24	20	47	22	51
More than 20 Cigarettes per day	73	62	59	3	2	6	2	2
Unknown	2,792	2,320	1,925	184	103	54	234	231

<sup>1</sup>Includes births with origin not stated.

<sup>2</sup>Includes births to Aleuts and Eskimos.

<sup>3</sup>Includes all persons of Hispanic origin of any race.

NOTES: Data are for States which implemented the 2003 Standard Certificate of Live Birth. Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Budget guidelines.



**Live births by educational attainment, race and Hispanic origin of mother: 2003 Revised Birth Certificate Reporting area and each State, 2003**

[By place of residence]

Reporting Area	All races <sup>1</sup>	White		Black		American	Asian or	Hispanic <sup>3</sup>
		Total	Non-Hispanic	Total	Non-Hispanic	Indian total <sup>2</sup>	Pacific Islander	
<b>Reporting Area</b>								
8th grade or less	8,465	6,989	3,148	724	373	148	604	4,460
9th through 12th grade no diploma	29,208	20,815	14,932	6,256	5,045	676	1,461	7,079
High school graduate or GED	58,358	46,384	41,213	8,886	7,629	734	2,354	5,987
Some college credit, but no degree	41,856	34,076	31,446	5,545	4,964	480	1,755	2,936
Associate degree	18,405	16,007	15,180	1,366	1,228	117	915	859
Bachelor's degree	41,655	36,694	35,331	1,682	1,544	109	3,170	1,247
Master's degree	15,006	13,018	12,603	502	470	23	1,463	347
Doctorate or Professional Degree	4,099	3,330	3,168	153	143	13	603	145
Unknown	9,396	7,662	6,086	957	650	84	693	1,092
<b>Pennsylvania</b>								
8th grade or less	4,555	3,831	2,735	459	272	15	250	1,306
9th through 12th grade no diploma	18,245	12,097	9,537	5,503	4,517	74	571	3,313
High school graduate or GED	39,714	31,122	28,579	7,667	6,639	109	816	3,099
Some college credit, but no degree	24,963	19,768	18,600	4,595	4,155	63	537	1,426
Associate degree	12,154	10,694	10,324	1,156	1,049	20	284	417
Bachelor's degree	28,370	25,529	24,920	1,442	1,341	33	1,366	660
Master's degree	10,242	9,029	8,839	425	400	3	785	191
Doctorate or Professional Degree	2,791	2,282	2,196	123	115	6	380	92
Unknown	4,925	4,042	3,529	686	486	10	187	328
<b>Washington</b>								
8th grade or less	3,910	3,158	413	265	101	133	354	3,154
9th through 12th grade no diploma	10,963	8,718	5,395	753	528	602	890	3,766
High school graduate or GED	18,644	15,262	12,634	1,219	990	625	1,538	2,888
Some college credit, but no degree	16,893	14,308	12,846	950	809	417	1,218	1,510
Associate degree	6,251	5,313	4,856	210	179	97	631	442
Bachelor's degree	13,285	11,165	10,411	240	203	76	1,804	587
Master's degree	4,764	3,989	3,764	77	70	20	678	156
Doctorate or Professional Degree	1,308	1,048	972	30	28	7	223	53
Unknown	4,471	3,620	2,557	271	164	74	506	764

<sup>1</sup>Includes births with origin not stated.

<sup>2</sup>Includes births to Aleuts and Eskimos.

<sup>3</sup>Includes all persons of Hispanic origin of any race.

NOTES: Data are for States which implemented the 2003 Standard Certificate of Live Birth. Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Budget guidelines.

**Births by month prenatal care began and race and Hispanic origin of mother: 2003 Revised Birth Certificate Reporting area and each State, 2003**

[By place of residence]

Reporting Area	All races <sup>1</sup>	White		Black		American Indian total <sup>2</sup>	Asian or Pacific Islander total	Hispanic <sup>3</sup>
		Total	Non-Hispanic	Total	Non-Hispanic			
Reporting Area								
1st to 3rd month	132,892	115,141	104,546	10,379	8,761	1,012	6,360	11,549
4th to 6th month	33,500	25,748	21,094	5,180	4,322	488	2,084	5,467
7th to final month	6,636	4,845	3,876	1,261	1,049	102	428	1,147
No prenatal care	3,369	2,267	1,909	859	751	64	179	398
Unknown	50,051	36,974	31,682	8,392	7,163	718	3,967	5,591
Pennsylvania								
1st to 3rd month	89,444	77,908	73,340	8,680	7,449	169	2,687	5,153
4th to 6th month	21,648	16,054	14,008	4,581	3,884	61	952	2,529
7th to final month	4,477	3,125	2,697	1,127	950	13	212	548
No prenatal care	2,154	1,297	1,153	789	697	5	63	189
Unknown	28,236	20,010	18,061	6,879	5,994	85	1,262	2,413
Washington								
1st to 3rd month	43,448	37,233	31,206	1,699	1,312	843	3,673	6,396
4th to 6th month	11,852	9,694	7,086	599	438	427	1,132	2,938
7th to final month	2,159	1,720	1,179	134	99	89	216	599
No prenatal care	1,215	970	756	70	54	59	116	209
Unknown	21,815	16,964	13,621	1,513	1,169	633	2,705	3,178

<sup>1</sup>Includes births with origin not stated.

<sup>2</sup>Includes births to Aleuts and Eskimos.

<sup>3</sup>Includes all persons of Hispanic origin of any race.

NOTES: Data are for States which implemented the 2003 Standard Certificate of Live Birth. Race and Hispanic origin are reported separately on birth certificates. Race categories are consistent with the 1977 Office of Budget guidelines.