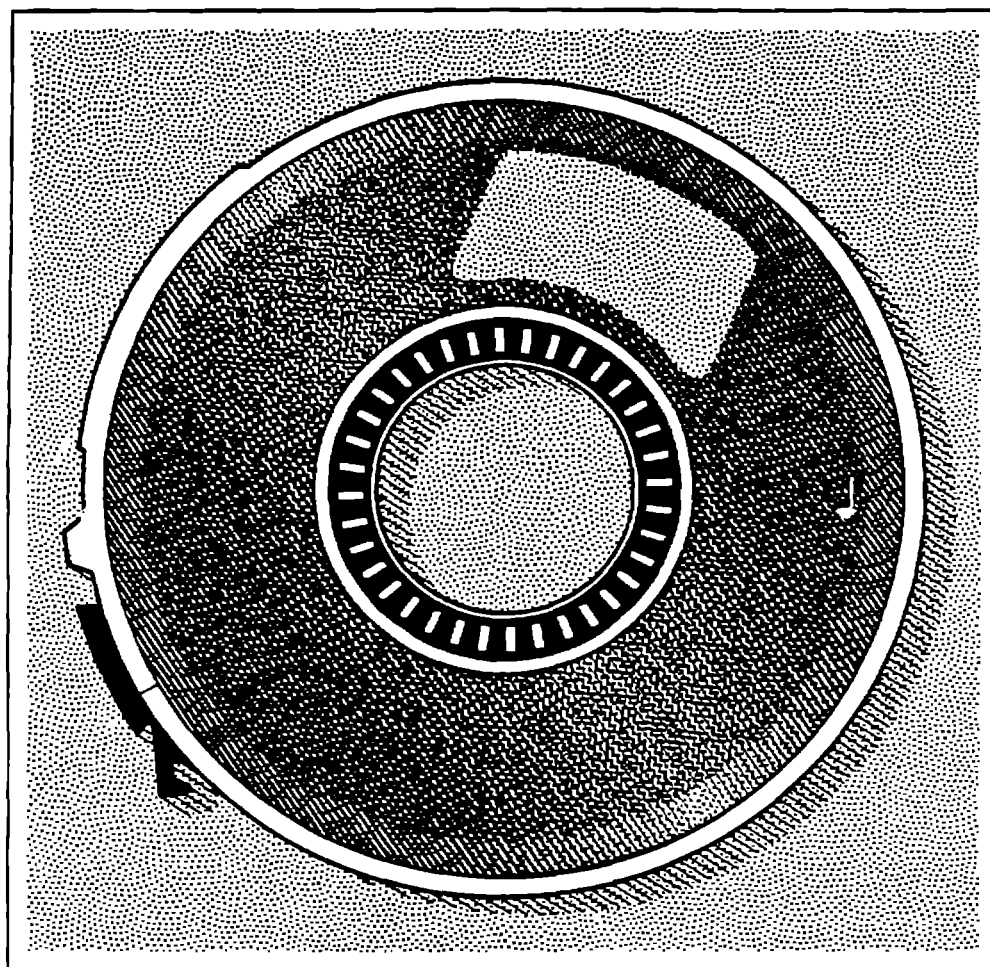


Public Use Data Tape Documentation

1981 Detail Natality



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
National Center for Health Statistics

Hyattsville, Maryland
December 1983

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Introduction

The natality data file is maintained by calendar year. Data is received from the States in two forms. A number of States submit 100 percent of the data and the remaining States submit 50 percent. Appendix A itemizes State names codes and percentage of data submitted.

Each record contains a weight field (tape location 208) which is designed to inflate tabular totals to the national birth figures. For States that submit 100 percent of their data, each record contains a one (1) in the weight field. For States that submit 50 percent of their data, each record contains a two (2) in the weight field.

Natality tabulations, published by the National Center for Health Statistics, are by place of residence unless otherwise specified in the tables. Births to nonresidents of the United States are excluded from these tabulations. However, tables by place of occurrence include births to nonresidents of the United States and totals differ from resident tables.

If your totals differ from NCHS published figures, different handling of nonresident aliens may be the reason. Nonresident aliens can be identified by codes 52 through 57 and 59 in tape locations 13-14.

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Attachments to Natality Documentation

1. State names, codes and percentage of data submitted.
2. Outline of differences between the 1980 and 1981 data records.
3. Standard Metropolitan Statistical Areas as adapted for use by NCHS/DVS.
(Effective with 1980 data).
4. Documentation tables 1 through 13.

SYMBOLS USED IN TABLES

<u>Symbol</u>	<u>Explanation</u>
---	Data not available
...	Category not applicable
-	Quantity zero
0.0	Quantity more than 0 but less than 0.5
*	Figure does not meet standards of reliability or precision

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<u>Data Items</u>	<u>Tape Locations</u>
1. <u>General</u>	
a. Data year	1
b. Reporting area	4
c. Record type	11
d. Resident status	12
e. Record weight	208
2. <u>Occurrence</u>	
a. State	28-29
b. County	30-32
c. Division	33
3. <u>Residence</u>	
a. State	13-14
b. County	15-17
c. City	18-20
d. Population size	21
e. MET/NONMET county	25
f. Division	26
g. NCHS SMSA	22-24
h. FIPS SMSA	204-207
4. <u>Dates of</u>	
a. Last menstrual period	88-92
b. Birth	84-87
c. Last live birth	113-116
d. Last other termination	125-128
5. <u>Prenatal Care</u>	
a. Month began	109-112
b. Number of visits	140-141, 209-212
6. <u>Child</u>	
a. Sex	35
b. Race	39-40
c. Number at delivery	81-83
d. Birthweight	73-79
e. APGAR score	181-186
f. Gestation	93-97

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Data Items	Tape Locations
<hr/>	
7. <u>Mother</u>	
a. Age	41-51
b. Race	38
c. Marital status	107-108
d. Education	98-102
e. Place of birth	138-139
f. Origin or descent	187-188
8. <u>Pregnancy History</u>	
a. Born alive, now living	52-53
b. Born alive, now dead	54-55
c. Born dead	56-57
d. Other terminations	
1. Before 20 weeks	177-178
2. After 20 weeks	179-180
e. Total birth order	58-56
f. Live birth order	61-67
9. <u>Father</u>	
a. Age	69-72
b. Race	37
c. Education	103-106
d. Origin of descent	189-190
10. <u>Other Items</u>	
a. Congenital malformations	142
b. Residence reporting flags	146-160
c. Occurrence reporting flags	161-172
d. Attendant at birth	36
e. Place of delivery	80
f. Outcome of last pregnancy	137
g. Interval since last live birth	117-124
h. Interval since last other termination	130-132
i. Inteval since last pregnancy	133-136

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Machine/File/Data Characteristics:

1. Machine used: IBM/370/158
2. Language used: PL/1
3. File organization: One file, multiple reels
4. Record format: Blocked, fixed format
5. Record counts:
 - a. Total: 3,319,054
 - b. Foreign residents: 5,704
6. Record length: 215
7. Blocksize: 21500
8. Recording mode: IBM/EBCDIC 8-bit code
9. Code scheme: Numeric/Alphabetic/Blanks/Special
10. Last block: May be a short block
11. Special characters:
 - a. "Z" is the EBCDIC letter Z
 - b. "&" is the EBCDIC ampersand
 - c. "-" is the EBCDIC dash
12. Data counts (weighted totals):
 - a. By occurrence: 3,635,515
 - b. By residence: 3,629,238
 - c. To foreign residents: 6,277

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Tape Location	Field Size	Item and Code Outline
1	1	<u>Data Year</u> 1 ... 1981
2-3	2	<u>Shipment Number</u> 01-nn ... Shipments from each reporting area are numbered consecutively.
4	1	<u>Reporting Area</u> The following codes used with the State of Occurrence codes, tape locations 28-29, identify separate reporting areas. 1 ... Bronx Borough 5 ... Richmond Borough 2 ... Brooklyn Borough 6 ... Chicago 3 ... Manhattan Borough 0 ... All other areas 4 ... Queens Borough
5-10	6	<u>Certificate Number</u> These positions are blank.
11	1	<u>Record Type</u> 1 ... RESIDENTS State and County of Occurrence and Residence are the same. 2 ... NONRESIDENTS State and/or County of Occurrence and Residence are different.
12	1	<u>Resident Status</u> 1 ... RESIDENTS State and County of Occurrence and Residence are the same. 2 ... INTRASTATE NONRESIDENTS State of Occurrence and Residence are the same, but County is different. 3 ... INTERSTATE NONRESIDENTS State of Occurrence and Residence are different, but both are in the U.S. 4 ... FOREIGN RESIDENTS State of Occurrence is one of the 50 States or the District of Columbia, but Place of Residence is outside of the U.S.

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Tape Location	Field Size	Item and Code Outline
13-27	15	<u>PLACE OF RESIDENCE</u> Refer to the "Geographic Code Manual: Codes used in computer processing effective with 1970 data" for a complete list of areas and codes.
13-14	2	<u>State</u> 01-51 ... Each State and the District of Columbia are numbered alphabetically. Appendix A gives a complete list of State names and codes. <u>Foreign Residents</u> 52 ... Puerto Rico 53 ... Virgin Islands 54 ... Guam 55 ... Canada 56 ... Cuba 57 ... Mexico 59 ... Remainder of the World
15-17	3	<u>County</u> 001-nnn ... Counties and County equivalents are numbered alphabetically within each State. Virginia independent cities are numbered alphabetically following Virginia counties. ZZZ ... Foreign residents
18-20	3	<u>City</u> 001-mnn ... Cities are numbered alphabetically within each State and identify each city with a population of 100,000 or more in 1970. 999 ... Balance of County ZZZ ... Foreign residents

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Tape Location	Field Size	Item and Code Outline
21	1	<u>Population Size of City of Residence</u> 0 ... Place of 1,000,000 or more 1 ... Place of 500,000 to 1,000,000 2 ... Place of 250,000 to 500,000 3 ... Place of 100,000 to 250,000 4 ... Place of 50,000 to 100,000 5 ... Place of 25,000 to 50,000 6 ... Place of 10,000 to 25,000 9 ... All other areas in the U.S. Z ... Foreign Residents
22-24	3	<u>NCHS Standard Metropolitan Statistical Area (SMSA)</u> NCHS uses the SMSA's established for 1980 by the U.S. Office of Management and Budget except for the New England States, in which case the New England County Metropolitan Areas (NECMA) are used. At the back of the documentation is a list of SMSA's and their component counties. Tape locations 204-207 contain the Federal Information Processing Standards (FIPS) SMSA codes. 000 ... Nonmetropolitan counties 001-305 ... The 305 SMSA's established for 1980 ZZZ ... Foreign Residents
25	1	<u>Metropolitan-Nonmetropolitan County of Residence</u> 1 ... Metropolitan county 2 ... Nonmetropolitan county Z ... Foreign Residents

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Tape Location	Field Size	Item and Code Outline																																																																																	
26-27	2	<u>Division and State Subcode of Residence</u> States are coded within Division. The code structure is designed to sequence the States as they appear in NCHS Publications. Location 26 identifies the Division and location 27 identifies States within that Division. <table><thead><tr><th><u>Loc.</u> <u>26</u></th><th><u>Loc.</u> <u>27</u></th><th></th></tr></thead><tbody><tr><td>0 ...</td><td>0 ...</td><td><u>Foreign Residents</u></td></tr><tr><td><u>1 ...</u></td><td></td><td><u>New England</u></td></tr><tr><td></td><td>1 ...</td><td>Maine</td></tr><tr><td></td><td>2 ...</td><td>New Hampshire</td></tr><tr><td></td><td>3 ...</td><td>Vermont</td></tr><tr><td></td><td>4 ...</td><td>Massachusetts</td></tr><tr><td></td><td>5 ...</td><td>Rhode Island</td></tr><tr><td></td><td>6 ...</td><td>Connecticut</td></tr><tr><td><u>2 ...</u></td><td></td><td><u>Middle Atlantic</u></td></tr><tr><td></td><td>1 ...</td><td>New York</td></tr><tr><td></td><td>2 ...</td><td>New Jersey</td></tr><tr><td></td><td>3 ...</td><td>Pennsylvania</td></tr><tr><td><u>3...</u></td><td></td><td><u>East North Central</u></td></tr><tr><td></td><td>1 ...</td><td>Ohio</td></tr><tr><td></td><td>2 ...</td><td>Indiana</td></tr><tr><td></td><td>3 ...</td><td>Illinois</td></tr><tr><td></td><td>4 ...</td><td>Michigan</td></tr><tr><td></td><td>5 ...</td><td>Wisconsin</td></tr><tr><td><u>4...</u></td><td></td><td><u>West North Central</u></td></tr><tr><td></td><td>1 ...</td><td>Minnesota</td></tr><tr><td></td><td>2 ...</td><td>Iowa</td></tr><tr><td></td><td>3 ...</td><td>Missouri</td></tr><tr><td></td><td>4 ...</td><td>North Dakota</td></tr><tr><td></td><td>5 ...</td><td>South Dakota</td></tr><tr><td></td><td>6 ...</td><td>Nebraska</td></tr><tr><td></td><td>7 ...</td><td>Kansas</td></tr></tbody></table>	<u>Loc.</u> <u>26</u>	<u>Loc.</u> <u>27</u>		0 ...	0 ...	<u>Foreign Residents</u>	<u>1 ...</u>		<u>New England</u>		1 ...	Maine		2 ...	New Hampshire		3 ...	Vermont		4 ...	Massachusetts		5 ...	Rhode Island		6 ...	Connecticut	<u>2 ...</u>		<u>Middle Atlantic</u>		1 ...	New York		2 ...	New Jersey		3 ...	Pennsylvania	<u>3...</u>		<u>East North Central</u>		1 ...	Ohio		2 ...	Indiana		3 ...	Illinois		4 ...	Michigan		5 ...	Wisconsin	<u>4...</u>		<u>West North Central</u>		1 ...	Minnesota		2 ...	Iowa		3 ...	Missouri		4 ...	North Dakota		5 ...	South Dakota		6 ...	Nebraska		7 ...	Kansas
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Tape Location	Field Size	Item and Code Outline
26-27	2	<u>Division and State Subcode of Residence (Cont'd.)</u>
		<u>Loc. 26</u> <u>Loc. 27</u>
		<u>5 ...</u> <u>South Atlantic</u>
		1 ... Delaware
		2 ... Maryland
		3 ... District of Columbia
		4 ... Virginia
		5 ... West Virginia
		6 ... North Carolina
		7 ... South Carolina
		8 ... Georgia
		9 ... Florida
		<u>6 ...</u> <u>East South Central</u>
		1 ... Kentucky
		2 ... Tennessee
		3 ... Alabama
		4 ... Mississippi
		<u>7 ...</u> <u>West South Central</u>
		1 ... Arkansas
		2 ... Louisiana
		3 ... Oklahoma
		4 ... Texas
		<u>8 ...</u> <u>Mountain</u>
		1 ... Montana
		2 ... Idaho
		3 ... Wyoming
		4 ... Colorado
		5 ... New Mexico
		6 ... Arizona
		7 ... Utah
		8 ... Nevada
		<u>9 ...</u> <u>Pacific</u>
		1 ... Washington
		2 ... Oregon
		3 ... California
		4 ... Alaska
		5 ... Hawaii

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Tape Location	Field Size	Item and Code Outline																								
28-34	7	<p><u>PLACE OF OCCURRENCE</u></p> <p>Refer to the "Geographic Code Manual: Codes used in computer processing effective with 1970 data" for a complete list of areas and codes.</p>																								
28-29	2	<p><u>State</u></p> <p>01-51 ... Each State and the District of Columbia are numbered alphabetically. Appendix A gives a complete list of State names and codes.</p>																								
30-32	3	<p><u>County</u></p> <p>001-nnn ... Counties and county equivalents are numbered alphabetically within each State. Virginia independent cities are numbered alphabetically following Virginia counties.</p>																								
33-34	2	<p><u>Division and State Subcode of Residence</u></p> <p>States are coded within Division. The code structure is designed to sequence the States as they appear in NCHS Publications.</p> <p>Location 33 identifies the Division and location 34 identifies States within that Division.</p> <table><thead><tr><th>Loc.</th><th>Loc.</th></tr><tr><th><u>33</u></th><th><u>34</u></th></tr></thead><tbody><tr><td><u>1 ...</u></td><td><u>New England</u></td></tr><tr><td></td><td>1 ... Maine</td></tr><tr><td></td><td>2 ... New Hampshire</td></tr><tr><td></td><td>3 ... Vermont</td></tr><tr><td></td><td>4 ... Massachusetts</td></tr><tr><td></td><td>5 ... Rhode Island</td></tr><tr><td></td><td>6 ... Connecticut</td></tr><tr><td><u>2 ...</u></td><td><u>Middle Atlantic</u></td></tr><tr><td></td><td>1 ... New York</td></tr><tr><td></td><td>2 ... New Jersey</td></tr></tbody></table>	Loc.	Loc.	<u>33</u>	<u>34</u>	<u>1 ...</u>	<u>New England</u>		1 ... Maine		2 ... New Hampshire		3 ... Vermont		4 ... Massachusetts		5 ... Rhode Island		6 ... Connecticut	<u>2 ...</u>	<u>Middle Atlantic</u>		1 ... New York		2 ... New Jersey
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Tape Location	Field Size	Item and Code Outline
33-34	2	<u>Division and State Subcode of Residence (Cont'd.)</u>
		<u>Loc. 33</u> <u>Loc. 34</u>
		<u>3...</u> <u>East North Central</u>
		1 ... Ohio
		2 ... Indiana
		3 ... Illinois
		4 ... Michigan
		5 ... Wisconsin
		<u>4...</u> <u>West North Central</u>
		1 ... Minnesota
		2 ... Iowa
		3 ... Missouri
		4 ... North Dakota
		5 ... South Dakota
		6 ... Nebraska
		7 ... Kansas
		<u>5 ...</u> <u>South Atlantic</u>
		1 ... Delaware
		2 ... Maryland
		3 ... District of Columbia
		4 ... Virginia
		5 ... West Virginia
		6 ... North Carolina
		7 ... South Carolina
		8 ... Georgia
		9 ... Florida
		<u>6...</u> <u>East South Central</u>
		1 ... Kentucky
		2 ... Tennessee
		3 ... Alabama
		4 ... Mississippi
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		1 ... Arkansas
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		4 ... Texas

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	1 ... Washington																																	
	2 ... Oregon																																	
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	4 ... Alaska																																	
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35	1	<u>Sex of Child</u> 1 ... Male 2 ... Female																																
36	1	<u>Attendant at Birth</u> 1 ... Physician in Hospital or Institution 2 ... Physician (Not in Hospital) 3 ... Midwife (Not in Hospital) 4 ... Other and not specified																																
37	1	<u>Detail Race of Father</u> 0 ... Other Asian or Pacific Islander 1 ... White 2 ... Black 3 ... Indian (Includes Aleuts and Eskimos) 4 ... Chinese 5 ... Japanese 6 ... Hawaiian (Includes Part-Hawaiian) 7 ... Other Nonwhite 8 ... Filipino 9 ... Not Stated																																

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Tape Location	Field Size	Item and Code Outline
38	1	<u>Detail Race of Mother</u> 0 ... Other Asian or Pacific Islander 1 ... White 2 ... Black 3 ... Indian (Includes Aleuts and Eskimos) 4 ... Chinese 5 ... Japanese 6 ... Hawaiian (Includes Part-Hawaiian) 7 ... Other Nonwhite 8 ... Filipino 9 ... Not Stated
39	1	<u>Detail Race of Child</u> 0 ... Other Asian or Pacific Islander 1 ... White 2 ... Black 3 ... Indian (Includes Aleuts and Eskimos) 4 ... Chinese 5 ... Japanese 6 ... Hawaiian (Includes Part-Hawaiian) 7 ... Other Nonwhite 8 ... Filipino
40	1	<u>Race of Child Recode 3</u> 1 ... White 2 ... Races other than White or Black 3 ... Black
41-42	2	<u>Detail Age of Mother</u> 10-49 ... Age in Single Years

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Tape Location	Field Size	Item and Code Outline
43-44	2	<u>Age of Mother Single Years Recode 36</u>
		01 ... Under 15 years 02 ... 15 years 03 ... 16 years 04 ... 17 years 05 ... 18 years 06 ... 19 years 07 ... 20 years 08 ... 21 years 09 ... 22 years 10 ... 23 years 11 ... 24 years 12 ... 25 years 13 ... 26 years 14 ... 27 years 15 ... 28 years 16 ... 29 years 17 ... 30 years 18 ... 31 years 19 ... 32 years 20 ... 33 years 21 ... 34 years 22 ... 35 years 23 ... 36 years 24 ... 37 years 25 ... 38 years 26 ... 39 years 27 ... 40 years 28 ... 41 years 29 ... 42 years 30 ... 43 years 31 ... 44 years 32 ... 45 years 33 ... 46 years 34 ... 47 years 35 ... 48 years 36 ... 49 years

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Tape Location	Field Size	Item and Code Outline
45-46	2	<u>Age of Mother Recode 15</u> 01 ... Under 15 years 03 ... 15 years 04 ... 16 years 05 ... 17 years 06 ... 18 years 07 ... 19 years 09 ... 20 years 10 ... 21 years 11 ... 22 years 12 ... 23 years 13 ... 24 years 14 ... 25-29 years 15 ... 30-34 years 16 ... 35-39 years 17 ... 40 years and over
47-48	2	<u>Age of Mother Recode 12</u> 01 ... Under 15 years 03 ... 15 years 04 ... 16 years 05 ... 17 years 06 ... 18 years 07 ... 19 years 08 ... 20-24 years 09 ... 25-29 years 10 ... 30-34 years 11 ... 35-39 years 12 ... 40-44 years 13 ... 45-49 years
49	1	<u>Age of Mother Recode 8</u> 1 ... Under 15 years 2 ... 15-19 years 3 ... 20-24 years 4 ... 25-29 years 5 ... 30-34 years 6 ... 35-39 years 7 ... 40-44 years 8 ... 45-49 years

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Tape Location	Field Size	Item and Code Outline
50	1	<u>Age of Mother Recode 7</u> 1 ... Under 15 years 2 ... 15-19 years 3 ... 20-24 years 4 ... 25-29 years 5 ... 30-34 years 6 ... 35-39 years 7 ... 40-49 years
51	1	<u>Age of Mother Recode 6</u> 1 ... Under 20 years 2 ... 20-24 years 3 ... 25-29 years 4 ... 30-34 years 5 ... 35-39 years 6 ... 40-49 years
52-53	2	<u>Number of Children Born Alive, Now Living</u> 00-50 ... Stated Number of Children 99 ... Unknown or Not Classifiable
54-55	2	<u>Number of Children Born Alive, Now Dead</u> 00-50 ... Stated Number of Children 99 ... Unknown or Not Classifiable
56-57	2	<u>Number of Children Born Dead (Fetal Deaths)</u> 00-50 ... Stated Number of Children 99 ... Unknown or Not Classifiable
58-59	2	<u>Total Birth Order - Detail</u> 01-50 ... Total number of Children ever born to Mother 99 ... Unknown or Not Stated

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Tape Location	Field Size	Item and Code Outline
60	1	<u>Total Birth Order Recode 9</u> 1 ... First Child 2 ... Second Child 3 ... Third Child 4 ... Fourth Child 5 ... Fifth Child 6 ... Sixth Child 7 ... Seventh Child 8 ... Eighth Child and Over 9 ... Not Stated
61-62	2	<u>Detail Live Birth Order</u> 01-50 ... Number of Children Born Alive to Mother 99 ... Unknown or Not Stated
63	1	<u>Live Birth Order Recode 9</u> 1 ... First Child 2 ... Second Child 3 ... Third Child 4 ... Fourth Child 5 ... Fifth Child 6 ... Sixth Child 7 ... Seventh Child 8 ... Eighth Child and Over 9 ... Not Stated
64	1	<u>Live Birth Order Recode 8</u> 1 ... First Child 2 ... Second Child 3 ... Third Child 4 ... Fourth Child 5 ... Fifth Child 6 ... Sixth and Seventh Child 7 ... Eighth Child and Over 8 ... Not Stated
65	1	<u>Live Birth Order Recode 7</u> 1 ... First Child 2 ... Second Child 3 ... Third Child 4 ... Fourth Child 5 ... Fifth Child 6 ... Sixth Child and Over 7 ... Not Stated

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Tape Location	Field Size	Item and Code Outline
66	1	<u>Live Birth Order Recode 6</u> 1 ... First child 2 ... Second child 3 ... Third child 4 ... Fourth child 5 ... Fifth child and over 6 ... Not stated
67	1	<u>Live Birth Order Recode 3</u> 1 ... First child 2 ... Second child and over 3 ... Not stated
68	1	<u>Reserved Position</u>
69-70	2	<u>Detail Age of Father</u> 10-98 ... Age in single years 99 ... Not stated
71-72	2	<u>Age of Father Recode 11</u> 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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Tape Location	Field Size	Item and Code Outline
73-76	4	<u>Birthweight - Detail in Grams</u> 0227-8165 ... Number of grams 9999 ... Not stated Birthweight
77-78	2	<u>Birthweight Recode 12</u> 01 ... 499 grams or less 02 ... 500-999 grams 03 ... 1000-1499 grams 04 ... 1500-1999 grams 05 ... 2000-2499 grams 06 ... 2500-2999 grams 07 ... 3000-3499 grams 08 ... 3500-3999 grams 09 ... 4000-4499 grams 10 ... 4500-4999 grams 11 ... 5000-8165 grams 12 ... Not stated
79	1	<u>Birthweight Recode 3</u> 1 ... 2499 grams or less 2 ... 2500 grams or more 3 ... Not stated
80	1	<u>Place of Delivery</u> 1 ... Hospital Births 2 ... Non-hospital Births 3 ... En route or born on arrival (BOA) 9 ... Not classifiable
81	1	<u>Plurality - Detail</u> 1 ... Single Birth 2 ... Twin 3 ... Third or Higher Birth
82	1	<u>Plurality Recode 3</u> 1 ... Single Birth 2 ... Twin Birth 3 ... Other Multiple Births
83	1	<u>Plurality Recode 2</u> 1 ... Single Birth 2 ... Multiple Birth

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
84-87	4	<u>DATE OF BIRTH</u>
84-85	2	<u>Month</u> 01 ... January 07 ... July 02 ... February 08 ... August 03 ... March 09 ... September 04 ... April 10 ... October 05 ... May 11 ... November 06 ... June 12 ... December
86-87	2	<u>Day</u> 01-31 ... As applicable to month of birth 99 ... Not stated
88-92	5	<u>DATE OF LAST MENSTRUAL PERIOD</u>
88-89	2	<u>Month</u> 01 ... January 07 ... July 02 ... February 08 ... August 03 ... March 09 ... September 04 ... April 10 ... October 05 ... May 11 ... November 06 ... June 12 ... December 99 ... Not stated month of LMP
90-91	2	<u>Day</u> 01-31 ... As applicable to month of LMP 99 ... Not stated day of LMP
92	1	<u>Year</u> 0 ... 1980 1 ... 1981 - ... Not stated

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
93-94	2	<u>Detail Gestation in Weeks</u> 17-52 ... 17th through 52nd week of gestation 99 ... Not stated
95-96	2	<u>Gestation Recode 10</u> 01 ... Under 20 weeks 02 ... 20-27 weeks 03 ... 28-31 weeks 04 ... 32-35 weeks 05 ... 36 weeks 06 ... 37-39 weeks 07 ... 40 weeks 08 ... 41 weeks 09 ... 42 weeks and over 10 ... Not stated
97	1	<u>Gestation Recode 3</u> 1 ... Under 37 weeks 2 ... 37 weeks and over 3 ... Not stated

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
98-99	2	<u>Mother's Education - Detail</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 15 ... 3 years of college 16 ... 4 years of college 17 ... 5 or more years of college 99 ... No entry for item
100-101	2	<u>Mother's Education Recode 14</u> 01 ... 0-5 years 02 ... 6 years 03 ... 7 years 04 ... 8 years 05 ... 9 years 06 ... 10 years 07 ... 11 years 08 ... 12 years 09 ... 13 years 10 ... 14 years 11 ... 15 years 12 ... 16 years 13 ... 17 years 14 ... Not stated
102	1	<u>Mother's Education Recode 6</u> 1 ... 0-8 years 2 ... 9-11 years 3 ... 12 years 4 ... 13-15 years 5 ... 16 years and over 6 ... Not stated

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
103-104	2	<u>Father's Education - Detail</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 15 ... 3 years of college 16 ... 4 years of college 17 ... 5 or more years of college 99 ... No entry for item
105-106	2	<u>Father's Education Recode 14</u> 01 ... 0-5 years 02 ... 6 years 03 ... 7 years 04 ... 8 years 05 ... 9 years 06 ... 10 years 07 ... 11 years 08 ... 12 years 09 ... 13 years 10 ... 14 years 11 ... 15 years 12 ... 16 years 13 ... 17 years 14 ... Not stated
107	1	<u>Detail Marital Status</u> 1 ... Married 2 ... Unmarried 9 ... Not stated
108	1	<u>Marital Status Recode 2</u> 1 ... Married (Includes Not Stated) 2 ... Unmarried

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
109	1	<u>Detail Month of Pregnancy Prenatal Care Began</u> 1 ... 1st month 2 ... 2nd month 3 ... 3rd month 4 ... 4th month 5 ... 5th month 6 ... 6th month 7 ... 7th month 8 ... 8th month 9 ... 9th month 0 ... No prenatal care - ... Not stated
110-111	2	<u>Month Prenatal Care Began Recode 10</u> 01 ... 1st and 2nd month 02 ... 3rd month 03 ... 4th month 04 ... 5th month 05 ... 6th month 06 ... 7th month 07 ... 8th month 08 ... 9th month 09 ... No prenatal care 10 ... Not stated
112	1	<u>Month Prenatal Care Began Recode 6</u> 1 ... 1st - 2nd month 2 ... 3rd month 3 ... 4th - 6th month 4 ... 7th - 9th month 5 ... No prenatal care 6 ... Not stated

1981
DETAIL NATALITY

<u>Tape Location</u>	<u>Field Size</u>	<u>Item and Code Outline</u>
113-116	4	<u>DATE OF LAST LIVE BIRTH</u> 7777 ... No previous live birth
113-114	2	<u>Month</u> 01 ... January 07 ... July 02 ... February 08 ... August 03 ... March 09 ... September 04 ... April 10 ... October 05 ... May 11 ... November 06 ... June 12 ... December 99 ... Not stated
115-116	2	<u>Year</u> 00-81 ... Stated year 99 ... Not stated
117-119	3	<u>Detail Months Interval Since Last Live Birth</u> 000 ... Zero months (Plural birth) 001-500 ... One-five hundred months 999 ... Not stated 777 ... No previous live birth
120-121	2	<u>Interval Since Last Live Birth Recode 17</u> 00 ... Not applicable (No previous live birth) 01 ... Zero months (Plural birth) 02 ... 1-11 months 04 ... 12-14 months 05 ... 15-17 months 07 ... 18-20 months 08 ... 21-23 months 10 ... 24-29 months 11 ... 30-35 months 12 ... 36-47 months 13 ... 48-59 months 14 ... 60-71 months 16 ... 72-83 months 17 ... 84-95 months 18 ... 96-107 months 19 ... 108-119 months 20 ... 120 months and over 21 ... Not stated

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
122-123	2	<u>--Interval Since Last Live Birth Recode 10</u> 00 ... Not applicable (No previous live birth) 01 ... Zero months (Plural birth) 02 ... 1-11 months 03 ... 12-17 months 04 ... 18-23 months 05 ... 24-35 months 06 ... 36-47 months 07 ... 48-59 months 08 ... 60-71 months 09 ... 72 months and over 10 ... Not stated
124	1	<u>Interval Since Last Live Birth Recode 8</u> 0 ... Not applicable (No previous live birth) 1 ... Zero months (Plural birth) 2 ... 1-11 months 3 ... 12-23 months 4 ... 24-35 months 5 ... 36-47 months 6 ... 48-71 months 7 ... 72 months and over 8 ... Not stated
125-128	4	<u>DATE OF LAST OTHER TERMINATION</u> 7777 ... No previous other terminations
125-126	2	<u>Month</u> 01 ... January 07 ... July 02 ... February 08 ... August 03 ... March 09 ... September 04 ... April 10 ... October 05 ... May 11 ... November 06 ... June 12 ... December 99 ... Not stated
127-128	2	<u>Year</u> 00-81 ... Stated year 99 ... Not stated

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
129	1	<u>Processing Flag</u> 0 ... Date of last other termination does not contain a valid date. 1 ... Date of last other termination does contain a valid date.
130-132	3	<u>Detail Interval Since Last Other Termination</u> 000 ... Zero months (Plural delivery) 001-500 ... One-five hundred months 999 ... Not stated 777 ... No previous other terminations
133-135	3	<u>Detail Interval Since Termination of Last Pregnancy</u> 000 ... Zero months (Plural delivery) 001-500 ... One-five hundred months 999 ... Not stated 777 ... No previous pregnancy
136	1	<u>Interval Since Termination of Last Pregnancy Recode 9</u> 0 ... Not applicable (No previous pregnancy) 1 ... Zero months (Plural delivery) 2 ... 1-11 months 3 ... 12-17 months 4 ... 18-23 months 5 ... 24-35 months 6 ... 36-47 months 7 ... 48-59 months 8 ... 60 months and over 9 ... Not stated
137	1	<u>Outcome of Last Pregnancy</u> 0 ... Not applicable (No previous pregnancy) 1 ... Last pregnancy was a live birth 2 ... Last pregnancy was some other termination 3 ... Last pregnancy's outcome is unknown

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
138-139	2	<u>-Mother's Place of Birth</u> 01-51 ... 50 States and the District of Columbia in alphabetical sequence. 52 ... Puerto Rico 53 ... Virgin Islands 54 ... Guam 55 ... Canada 56 ... Cuba 57 ... Mexico 59 ... Remainder of World 99 ... Not classifiable
140-141	2	<u>Total Number of Prenatal Visits</u> 00 ... No prenatal visits 01-49 ... Stated number of visits 99 ... Not stated number of visits
142	1	<u>Congenital Malformation</u> 0 ... No reported condition 1 ... Any reported condition
143-145	3	<u>Reserved Positions</u>

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
146-160	15	<u>REPORTING FLAGS FOR PLACE OF RESIDENCE</u> Positions 146-160 are flagged to indicate whether or not the specified item is included on the birth certificates of the State of residence. positions 13-14. <u>OR</u> That the SMSA of Residence, positions 22-24, is composed entirely of State(s) which report the specified item. Code structure for all flags except Ethnicity is: 0 ... The item is NOT reported. 1 ... The item IS reported. Code structure for the Ethnicity flag is: 0 ... Ethnicity is NOT reported. 1 ... Detail Ethnicity IS reported. 2 ... Hispanic, Non-Hispanic Origin IS reported.
146	1	<u>Marital Status (By State)</u>
147	1	<u>Education of Parents (By State)</u>
148	1	<u>Date of Last Normal Menses (By State)</u>
149	1	<u>Month Prenatal Care Began (By State)</u>
150	1	<u>Date of Last Live Birth (By State)</u>
151	1	<u>Date of Last Other Termination (By State)</u>
152	1	<u>Marital Status (By SMSA).</u>
153	1	<u>Education (By SMSA)</u>
154	1	<u>Congenital Malformations (By State)</u>
155	1	<u>Number of Prenatal Visits (By State)</u>
156	1	<u>Reserved for Possible Later Use</u>
157	1	<u>Ethnicity (By State)</u>
158	1	<u>One Minute APGAR Score (By State)</u>
159	1	<u>Five Minute APGAR Score (By State)</u>
160	1	<u>Reserved for Possible Later Use</u>

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
161-172	12	<u>REPORTING FLAGS FOR PLACE OF OCCURRENCE</u> With the exception of the ethnicity item, the flags for the selectively reported items below will all be set to '1', regardless of whether the State of Occurrence (positions 28-29) was a reporting or non-reporting State. Ethnicity flags will be set as detailed below.
161	1	<u>Marital Status (By State)</u>
162	1	<u>Education of Parents (By State)</u>
163	1	<u>Date of Last Normal Menses (By State)</u>
164	1	<u>Month Prenatal Care Began (By State)</u>
165	1	<u>Date of Last Live Birth (By State)</u>
166	1	<u>Date of Last Other Termination (By State)</u>
167	1	<u>Congenital Malformations (By State)</u>
168	1	<u>Number of Prenatal Visits (By State)</u>
169	1	<u>Reserved for Possible Later Use</u>
170	1	<u>Ethnicity (By State)</u> 0 ... Indicates ethnicity is not reported. 1 ... Indicates detailed ethnicity is reported. 2 ... Indicates Hispanic, Non-Hispanic origin is reported.
171	1	<u>One Minute APGAR Score (By State)</u>
172	1	<u>Five Minute APGAR Score (By State)</u>

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DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
173-175	3	<u>Reserved Positions</u>
176	1	<u>Person In Attendance</u> 1 ... Physician 2 ... Midwife 3 ... Status specified, other than physician or midwife. 9 ... Status unknown, not specified, or not classifiable.
177-178	2	<u>Number of Other Terminations Before 20 weeks</u> 88 ... Not applicable (Item not on record) 00-50 ... Stated Number of Terminations 99 ... Unknown or not classifiable
179-180	2	<u>Number of Other Terminations After 20 weeks</u> 88 ... Not applicable (Item not on record) 00-50 ... Stated Number of Terminations 99 ... Unknown or not classifiable
181-182	2	<u>One Minute APGAR Score</u> 00-10 ... A score of 0-10 99 ... Unknown or not stated
183	1	<u>One Minute APGAR Score Recode 5</u> 1 ... A score of 0-3 2 ... A score of 4-6 3 ... A score of 7-8 4 ... A score of 9-10 5 ... Not stated
184-185	2	<u>Five Minute APGAR Score</u> 00-10 ... A score of 0-10 99 ... Unknown or not stated
186	1	<u>Five Minute APGAR Score Recode 5</u> 1 ... A score of 0-3 2 ... A score of 4-6 3 ... A score of 7-8 4 ... A score of 9-10 5 ... Not stated

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DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
187-188	2	<p><u>Origin or Descent of Mother</u></p> <p><u>Hispanic, Non-Hispanic Origin (Code 2 in Pos. 170)</u></p> <ul style="list-style-type: none">00 ... Non-Spanish01 ... Mexican02 ... Puerto Rican03 ... Cuban04 ... Central or South American05 ... Other and Unknown Spanish <p><u>Detail Ethnicity (Code 1 in Pos. 170)</u></p> <ul style="list-style-type: none">01 ... Mexican02 ... Puerto Rican03 ... Cuban04 ... Central or South American05 ... Other and Unknown Spanish06 ... American07 ... Indian08 ... British, Scottish, Welsh, Scotch-Irish09 ... Irish10 ... German11 ... French12 ... Norwegian, Swedish, Danish13 ... Polish14 ... Italian15 ... Other North, Central and South American16 ... Other Western European17 ... Other Northern European18 ... Other Eastern European19 ... Other Southern European (excluding Spain)20 ... Southeast Asian and Pacific Islander21 ... South Central Asian22 ... Other Asian23 ... North African24 ... Other African <ul style="list-style-type: none">88 ... Not Applicable (Code 0 in Pos. 170)99 ... Not Classifiable (Codes 1,2 in Pos. 170)

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
189-190	2	<u>Origin or Descent of Father</u> <u>Hispanic, Non-Hispanic Origin (Code 2 in Pos. 170)</u> 00 ... Non-Spanish 01 ... Mexican 02 ... Puerto Rican 03 ... Cuban 04 ... Central or South American 05 ... Other and Unknown Spanish <u>Detail Ethnicity (Code 1 in Pos. 170)</u> 01 ... Mexican 02 ... Puerto Rican 03 ... Cuban 04 ... Central or South American 05 ... Other and Unknown Spanish 06 ... American 07 ... Indian 08 ... British, Scottish, Welsh, Scotch-Irish 09 ... Irish 10 ... German 11 ... French 12 ... Norwegian, Swedish, Danish 13 ... Polish 14 ... Italian 15 ... Other North, Central and South American 16 ... Other Western European 17 ... Other Northern European 18 ... Other Eastern European 19 ... Other Southern European (excluding Spain) 20 ... Southeast Asian and Pacific Islander 21 ... South Central Asian 22 ... Other Asian 23 ... North African 24 ... Other African 88 ... Not Applicable (Code 0 in Pos. 170) 99 ... Not Classifiable (Codes 1,2 in Pos. 170)

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DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
191-203	13	<u>Reserved Positions</u>
204-207	4	<u>FIPS SMSA</u> See tape locations 22-24 for an explanation of SMSA's adapted for use by NCHS. 0000 ... Nonmetropolitan counties 0040-9340 ... Code range ZZZZ ... Foreign residents
208	1	<u>Record Weight</u> Each record contains a record weight that inflates tabular totals to the national birth figures. 1 ... Data submitted on a 100% basis 2 ... Data submitted on a 50% basis
209-210	2	<u>Number of Prenatal Visits Recode 28</u> 01 ... No prenatal visits 02 ... 1 visit 03 ... 2 visits 04 ... 3 visits 05 ... 4 visits 06 ... 5 visits 07 ... 6 visits 08 ... 7 visits 09 ... 8 visits 10 ... 9 visits 11 ... 10 visits 12 ... 11 visits 13 ... 12 visits 14 ... 13 visits 15 ... 14 visits 16 ... 15 visits 17 ... 16 visits 18 ... 17 visits 19 ... 18 visits 20 ... 19 visits 21 ... 20 visits 22 ... 21 visits 23 ... 22 visits 24 ... 23 visits 25 ... 24 visits 26 ... 25 visits 27 ... 26 visits 28 ... Not stated number of visits

1981
DETAIL NATALITY

Tape Location	Field Size	Item and Code Outline
211-212	2	<u>Number of Prenatal Visits Recode 12</u> 01 ... No visits 02 ... 1-2 visits 03 ... 3-4 visits 04 ... 5-6 visits 05 ... 7-8 visits 06 ... 9-10 visits 07 ... 11-12 visits 08 ... 13-14 visits 09 ... 15-16 visits 10 ... 17-18 visits 11 ... 19 visits or more 12 ... Not stated number of visits
213-215	3	<u>Reserved Positions</u>

1981
NATALITY

State codes used in NCHS/DVS and percentage of data submitted to NCHS

NAME	ABBREV.	CODE	PERCENT REPORTED	NAME	ABBREV.	CODE	PERCENT REPORTED
Alabama	AL	01	100	Montana	MT	27	100
Alaska	AK	02	100	Nebraska	NB	28	100
Arizona	AZ	03	50	Nevada	NV	29	100
Arkansas	AR	04	100	New Hampshire	NH	30	100
California	CA	05	50	New Jersey	NJ	31	100
Colorado	CO	06	100	New Mexico	NM	32	50
Connecticut	CT	07	100	New York	NY	33	100
Delaware	DE	08	50	North Carolina	NC	34	100
District of Columbia	DC	09	50	North Dakota	ND	35	50
Florida	FL	10	100	Ohio	OH	36	100
Georgia	GA	11	50	Oklahoma	OK	37	100
Hawaii	HI	12	100	Oregon	OR	38	100
Idaho	ID	13	100	Pennsylvania	PA	39	100
Illinois	IL	14	100	Rhode Island	RI	40	100
Indiana	IN	15	100	South Carolina	SC	41	100
Iowa	IA	16	100	South Dakota	SD	42	100
Kansas	KS	17	100	Tennessee	TN	43	100
Kentucky	KY	18	100	Texas	TX	44	100
Louisiana	LA	19	100	Utah	UT	45	100
Maine	ME	20	100	Vermont	VT	46	100
Maryland	MD	21	100	Virginia	VA	47	100
Massachusetts	MA	22	100	Washington	WA	48	100
Michigan	MI	23	100	West Virginia	WV	49	100
Minnesota	MN	24	100	Wisconsin	WI	50	100
Mississippi	MS	25	100	Wyoming	WY	51	100
Missouri	MO	26	100				

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1981
DETAIL NATALITY

The following table outlines differences between the 1980 and 1981 data records.

Tape Location	Item	Difference
1	Data year	Changed to reflect current data year
92	Year of last menstrual period	Codes have changed to reflect current data year.
115-116	Date of last live birth	Codes have changed to reflect current data year.
127-128	and Date of last other termination	

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
001	44	030 127 221	ABILENE, TEX TEXAS CALLAHAN JONES TAYLOR	0040
002	36	067 077	AKRON, OHIO OHIO PORTAGE SUMMIT	0080
003	11	047 088	ALBANY, GA GEORGIA DOUGHERTY LEE	0120
004	33	001 027 039 042 043	ALBANY-SCHENECTADY-TROY, N.Y NEW YORK ALBANY MONTGOMERY RENSSELAER SARATOGA SCHENECTADY	0160
005	32	001 023	ALBUQUERQUE, N. MEX NEW MEXICO BERNALILLO SANDOVAL	0200
006	19	022 040	ALEXANDRIA, LA LOUISIANA GRANT RAPIDES	0220
007	31 39	021 013 039 040	ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J NEW JERSEY WARREN PENNSYLVANIA CARBON LEHIGH NORTHAMPTON	0240
008	39	007	ALTOONA, PA PENNSYLVANIA BLAIR	0280
009	44	188 191	AMARILLO, TEX TEXAS POTTER RANDALL	0320

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
010	05	030	ANAHEIM-SANTA ANA-GARDEN GROVE, CALIF CALIFORNIA ORANGE	0360
011	02	010	ANCHORAGE, ALASKA ALASKA DIST. 10, ANCHORAGE	0380
012	15	048	ANDERSON, IND INDIANA MADISON	0400
013	41	004	ANDERSON, S.C SOUTH CAROLINA ANDERSON	0405
014	23	081	ANN ARBOR, MICH MICHIGAN WASHTENAW	0440
015	01	008	ANNISTON, ALA ALABAMA CALHOUN	0450
016	50	008 045 071	APPLETON-OSHKOSH, WIS WISCONSIN CALUMET OUTAGAMIE WINNEBAGO	0460
017	34	011 050	ASHEVILLE, N.C NORTH CAROLINA BUNCOMBE MADISON	0480
018	11	029 078 097 100	ATHENS, GA GEORGIA CLARKE JACKSON MADISON OCONEE	0500

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
019	11		ATLANTA, GA GEORGIA	0520
		018	BUTTS	
		028	CHEROKEE	
		031	CLAYTON	
		033	COBB	
		044	DE KALB	
		048	DOUGLAS	
		056	FAYETTE	
		058	FORSYTH	
		060	FULTON	
		067	GWINNETT	
		075	HENRY	
		107	NEWTON	
		110	PAULDING	
		122	ROCKDALE	
		147	WALTON	
020	31		ATLANTIC CITY, N.J NEW JERSEY	0560
		001	ATLANTIC	
021	11		AUGUSTA, GA.-S.C GEORGIA	0600
		036	COLUMBIA	
		121	RICHMOND	
	41		SOUTH CAROLINA	
		002	AIKEN	
022	44		AUSTIN, TEX TEXAS	0640
		105	HAYS	
		227	TRAVIS	
		246	WILLIAMSON	
023	05		BAKERSFIELD, CALIF CALIFORNIA	0680
		015	KERN	
024	21		BALTIMORE, MD MARYLAND	0720
		002	ANNE ARUNDEL	
		003	BALTIMORE	
		004	BALTIMORE CITY IND	
		007	CARROLL	
		013	HARFORD	
		014	HOWARD	

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
025	20	010	BANGOR, MAINE MAINE PENOBSCOT	0733
026	19	003 017 032 061	BATON ROUGE, LA LOUISIANA ASCENSION EAST BATON ROUGE LIVINGSTON WEST BATON ROUGE	0760
027	23	008 013	BATTLE CREEK, MICH MICHIGAN BARRY CALHOUN	0780
028	23	009	BAY CITY, MICH MICHIGAN BAY	0800
029	44	100 123 181	BEAUMONT-PORT ARTHUR-ORANGE, TEX TEXAS HARDIN JEFFERSON ORANGE	0840
030	48	037	BELLINGHAM, WASH WASHINGTON WHATCOM	0860
031	23	011	BENTON HARBOR, MICH MICHIGAN BERRIEN	0870
032	27	056	BILLINGS, MONT MONTANA YELLOWSTONE	0880
033	25	023 024 066	BILOXI-GULFPORT, MISS MISSISSIPPI HANCOCK HARRISON STONE	0920
034	33 39	003 050 058	BINGHAMTON, N.Y.-PA NEW YORK BROOME TIOGA PENNSYLVANIA SUSQUEHANNA	0960

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
035	01	037 058 059 064	BIRMINGHAM, ALA ALABAMA JEFFERSON ST CLAIR SHELBY WALKER	1000
036	35	008 030	BISMARCK, N.D NORTH DAKOTA BURLEIGH MORTON	1010
037	15	053	BLOOMINGTON, IND INDIANA MONROE	1020
038	14	057	BLOOMINGTON-NORMAL, ILL ILLINOIS MC LEAN	1040
039	13	001	BOISE CITY, IDAHO IDAHO ADA	1080
040	22	005 009 011 012 013	BOSTON-LOWELL-BROCKTON-LAWRENCE-HAVERHILL, MASS MASSACHUSETTS ESSEX MIDDLESEX NORFOLK PLYMOUTH SUFFOLK	1123
041	10	041	BRADENTON, FLA FLORIDA MANATEE	1140
042	48	018	BREMERTON, WASH WASHINGTON KITSAP	1150
043	07	001	BRIDGEPORT-STAMFORD-NORWALK-DANBURY, CONN CONNECTICUT FAIRFIELD	1163
044	44	031	BROWNSVILLE-HARLINGEN-SAN BENITO, TEX TEXAS CAMERON	1240

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
045	44	021	BRYAN-COLLEGE STATION, TEX TEXAS BRAZOS	1260
046	33	014 030	BUFFALO, N.Y NEW YORK ERIE NIAGARA	1280
047	34	001	BURLINGTON, N.C NORTH CAROLINA ALAMANCE	1300
048	46	004	BURLINGTON, VT VERMONT CHITTENDEN	1303
049	36	010 076	CANTON, OHIO OHIO CARROLL STARK	1320
050	51	013	CASPER, WY WYOMING NATRONA	1350
051	16	057	CEDAR RAPIDS, IOWA IOWA LINN	1360
052	14	010	CHAMPAIGN-URBANA-RANTOUL, ILL ILLINOIS CHAMPAIGN	1400
053	41	008 010 018	CHARLESTON-NORTH CHARLESTON, S.C SOUTH CAROLINA BERKELEY CHARLESTON DORCHESTER	1440
054	49	020 040	CHARLESTON, W. VA WEST VIRGINIA KANAWHA PUTNAM	1480

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
055	34	036 060 090	CHARLOTTE-GASTONIA, N.C NORTH CAROLINA GASTON MECKLENBURG UNION	1520
056	47	006 096 117 312	CHARLOTTESVILLE, VA VIRGINIA ALBEMARLE FLUYANNA GREENE CHARLOTTESVILLE CITY IND	1540
057	11 43	023 041 146 033 058 077	CHATTANOOGA, TENN.-GA GEORGIA CATOOSA DADE WALKER TENNESSEE HAMILTON MARION SEQUATCHIE	1560
058	14	016 022 045 049 056 099	CHICAGO, ILL ILLINOIS COOK DU PAGE KANE LAKE MC HENRY WILL	1600
059	05	004	CHICO, CALIF CALIFORNIA BUTTE	1620
060	15 18 36	015 008 019 059 013 031 083	CINCINNATI, OHIO-KY.-IND INDIANA DEARBORN KENTUCKY BOONE CAMPBELL KENTON OHIO CLERMONT HAMILTON WARREN	1640
061	18	024	CLARKSVILLE-HOPKINSVILLE, TENN.-KY KENTUCKY CLIPSTEAN	1660

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062	36		CLEVELAND, OHIO	1680
		018	OHIO	
		028	CUYAHOGA	
		043	GEAUGA	
		052	LAKE	
			MEDINA	
063	06		COLORADO SPRINGS, COLO	1720
		021	COLORADO	
		060	EL PASO	
			TELLER	
064	26		COLUMBIA, MO	1740
		010	MISSOURI	
			BOONE	
065	41		COLUMBIA, S.C	1760
		032	SOUTH CAROLINA	
		040	LEXINGTON	
			RICHLAND	
066	01		COLUMBUS, GA.-ALA	1800
		057	ALABAMA	
			RUSSELL	
	11		GEORGIA	
		026	CHATTAHOOCHEE	
		106	MUSCOGEE	
067	36		COLUMBUS, OHIO	1840
		021	OHIO	
		023	DELAWARE	
		025	FAIRFIELD	
		049	FRANKLIN	
		065	MADISON	
			PICKAWAY	
068	44		CORPUS CHRISTI, TEX	1880
		178	TEXAS	
		205	NUECES	
			SAN PATRICIO	
069	21		CUMBERLAND, MD.-W. VA	1900
		001	MARYLAND	
	49		ALLEGANY	
		029	WEST VIRGINIA	
			MINERAL	

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0	44	DALLAS-FORT WORTH, TEX TEXAS 043 COLLIN 057 DALLAS 061 DENTON 070 ELLIS 111 HOOD 126 JOHNSON 129 KAUFMAN 184 PARKER 199 ROCKWALL 220 TARRANT 249 WISE	1920
071	47	DANVILLE, VA VIRGINIA 213 PITTSYLVANIA 327 DANVILLE CITY IND	1950
072	14	DAVENPORT-ROCK ISLAND-MOLINE, IOWA-ILL ILLINOIS 037 HENRY 081 ROCK ISLAND 16 IOWA 082 SCOTT	1960
073	36	DAYTON, OHIO OHIO 029 GREENE 055 MIAMI 057 MONTGOMERY 068 PREBLE	2000
074	10	DAYTONA BEACH, FLA FLORIDA 064 VOLUSIA	2020
075	14	DECATUR, ILL ILLINOIS 058 MACON	2040
076	06	DENVER-BOULDER, COLO COLORADO 001 ADAMS 003 ARAPAHOE 007 BOULDER DENVER COEXT	2080

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077	16	077 091	DES MOINES, IOWA IOWA POLK WARREN	2120
078	23	044 047 050 063 074 082	DETROIT, MICH MICHIGAN LAPEER LIVINGSTON MACOMB OAKLAND ST CLAIR WAYNE	2160
079	16	031	DUBUQUE, IOWA IOWA DUBUQUE	2200
080	24 50	069 016	DULUTH-SUPERIOR, MINN.-WIS MINNESOTA ST LOUIS WISCONSIN DOUGLAS	2240
081	50	009 018	EAU CLAIRE, WIS WISCONSIN CHIPPEWA EAU CLAIRE	2290
082	44	071	EL PASO, TEX TEXAS EL PASO	2320
083	15	020	ELKHART, IND INDIANA ELKHART	2330
084	33	007	ELMIRA, N.Y NEW YORK CHEMUNG	2335
085	37	024	ENID, OKLA OKLAHOMA GARFIELD	2340
086	39	025	ERIE, PA PENNSYLVANIA ERIE	2360

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38	020	EUGENE-SPRINGFIELD, OREG OREGON LANE	2400
15	026 065 082 087	EVANSVILLE, IND.-KY INDIANA GIBSON POSEY VANDERBURGH WARRICK	2440
18	051	KENTUCKY HENDERSON	
089	24 35	FARGO-MOORHEAD, N. DAK.-MINN MINNESOTA CLAY NORTH DAKOTA CASS	2520
090	34 026	FAYETTEVILLE, N.C NORTH CAROLINA CUMBERLAND	2560
091	04 004 072	FAYETTEVILLE-SPRINGDALE, ARK ARKANSAS BENTON WASHINGTON	2580
092	23 025 078	FLINT, MICH MICHIGAN GENESEE SHIAWASSEE	2640
093	01 017 039	FLORENCE, ALA ALABAMA COLBERT LAUDERDALE	2650
094	41 021	FLORENCE, S.C SOUTH CAROLINA FLORENCE	2655
		FORT COLLINS, COLO	2670
			2680

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097	10	036	FORT MYERS-CAPE CORAL, FLA FLORIDA LEE	2700
098	04	017 066	FORT SMITH, ARK.-OKLA ARKANSAS CRAWFORD SEBASTIAN	2720
	37	040 068	OKLAHOMA LE FLORE SEQUOYAH	
099	10	046	FORT WALTON BEACH, FLA FLORIDA OKALOOSA	2750
100	15	001 002 017 090	FORT WAYNE, IND INDIANA ADAMS ALLEN DE KALB WELLS	2760
101	05	010	FRESNO, CALIF CALIFORNIA FRESNO	2840
102	01	028	GADSDEN, ALA ALABAMA ETOWAH	2880
103	10	001	GAINESVILLE, FLA FLORIDA ALACHUA	2900
104	44	084	GALVESTON-TEXAS CITY, TEX TEXAS GALVESTON	2920
105	15	045 064	GARY-HAMMOND-EAST CHICAGO, IND INDIANA LAKE PORTER	2960
106	33	053 054	GLENS FALLS, N.Y NEW YORK WARREN WASHINGTON	2975

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107	24	060	GRAND FORKS, N.D.-MINN MINNESOTA POLK	2985
	35	018	NORTH DAKOTA GRAND FORKS	
108	23	041	GRAND RAPIDS, MICH MICHIGAN KENT	3000
		070	OTTAWA	
109	27	007	GREAT FALLS, MONT MONTANA CASCADE	3040
110	06	062	GREELEY, COLO COLORADO WELD	3060
111	50	005	GREEN BAY, WIS WISCONSIN BROWN	3080
112	34	029	GREENSBORO-WINSTON SALEM-HIGH POINT, N.C NORTH CAROLINA DAVIDSON	3120
		034	FORSYTH	
		041	GUILFORD	
		076	RANDOLPH	
		085	STOKES	
		099	YADKIN	
113	41	023	GREENVILLE-SPARTANBURG, S.C SOUTH CAROLINA GREENVILLE	3160
		039	PICKENS	
		042	SPARTANBURG	
114	21	022	HAGERSTOWN, MD MARYLAND WASHINGTON	3180
115	36	009	HAMILTON-MIDDLETOWN, OHIO OHIO BUTLER	3200

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
116	39	021 022 050	HARRISBURG, PA PENNSYLVANIA CUMBERLAND DAUPHIN PERRY	3240
117	07	002 004 007	HARTFORD-NEW BRITAIN-BRISTOL, CONN CONNECTICUT HARTFORD MIDDLESEX TOLLAND	3283
118	34	002 018	HICKORY, N.C NORTH CAROLINA ALEXANDER CATAWBA	3290
119	12	002	HONOLULU, HAWAII HAWAII HONOLULU	3320
120	44	020 079 101 146 170 237	HOUSTON, TEX TEXAS BRAZORIA FORT BEND HARRIS LIBERTY MONTGOMERY WALLER	3360
121	18 36 49	010 045 044 006 050	HUNTINGTON-ASHLAND, W. VA.-KY.-OHIO KENTUCKY BOYD GREENUP OHIO LAWRENCE WEST VIRGINIA CABELL WAYNE	3400
122	01	042 045 048	HUNTSVILLE, ALA ALABAMA LIMESTONE MADISON MARSHALL	3440

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123	15		INDIANAPOLIS, IND	3480
		006	INDIANA	
		029	BOONE	
		030	HAMILTON	
		032	HANCOCK	
		041	HENDRICKS	
		049	JOHNSON	
		055	MARION	
		073	MORGAN	
			SHELBY	
124	16		IOWA CITY, IOWA	3500
		052	IOWA	
			JOHNSON	
125	23		JACKSON, MICH	3520
		038	MICHIGAN	
			JACKSON	
126	25		JACKSON, MISS	3560
		025	MISSISSIPPI	
		061	HINDS	
			RANKIN	
127	10		JACKSONVILLE, FLA	3600
		002	FLORIDA	
		010	BAKER	
		016	CLAY	
		045	DUVAL-JACKSONVILLE COEXT	
		055	NASSAU	
			ST JOHNS	
128	34		JACKSONVILLE, N.C	3605
		067	NORTH CAROLINA	
			ONSLow	
129	50		JANESVILLE-BELOIT, WISC	3620
		054	WISCONSIN	
			ROCK	
130	31		JERSEY CITY, N.J	3640
		009	NEW JERSEY	
			HUDSON	

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131	43		JOHNSON CITY-KINGSPORT-BRISTOL, TENN.-VA	3660
		010	TENNESSEE	
		037	CARTER	
		082	HAWKINS	
		086	SULLIVAN	
		090	UNICOI	
	47		WASHINGTON	
		252	VIRGINIA	
		282	SCOTT	
		306	WASHINGTON	
			BRISTOL CITY IND	
132	39		JOHNSTOWN, PA	3680
		011	PENNSYLVANIA	
		056	CAMBRIA	
			SOMERSET	
133	26		JOPLIN, MO	3710
		049	MISSOURI	
		073	JASPER	
			NEWTON	
134	23		KALAMAZOO-PORTAGE, MICH	3720
		039	MICHIGAN	
		080	KALAMAZOO	
			VAN BUREN	
135	14		KANKAKEE, ILL	3740
		046	ILLINOIS	
			KANKAKEE	
136	17		KANSAS CITY, MO.-KANS	3760
		046	KANSAS	
		105	JOHNSON	
	26		WYANDOTTE	
		019	MISSOURI	
		024	CASS	
		048	CLAY	
		083	JACKSON	
		089	PLATTE	
			RAY	
137	50		KENOSHA, WIS	3800
		030	WISCONSIN	
			KENOSHA	
138	44		KILLEEN-TEMPLE, TEX	3810
		014	TEXAS	
		050	BELL	
			CORYELL	

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139	43	001 005 047 087	KNOXVILLE, TENN TENNESSEE ANDERSON BLOUNT KNOX UNION	3840
140	15	034 080	KOKOMO, IND INDIANA HOWARD TIPTON	3850
141	50	032	LA CROSSE, WIS WISCONSIN LA CROSSE	3870
142	19	028	LAFAYETTE, LA LOUISIANA LAFAYETTE	3880
143	15	079	LAFAYETTE-WEST LAFAYETTE, IND INDIANA TIPPECANOE	3920
144	19	010	LAKE CHARLES, LA LOUISIANA CALCASIEU	3960
145	10	053	LAKELAND-WINTER HAVEN, FLA FLORIDA POLK	3980
146	39	036	LANCASTER, PA PENNSYLVANIA LANCASTER	4000
147	23	019 023 033 034	LANSING-EAST LANSING, MICH MICHIGAN CLINTON EATON INGHAM IONIA	4040
148	44	240	LAREDO, TEX TEXAS WEBB	4080

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NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
149	32	007	LAS CRUCES, N.M NEW MEXICO DONA ANA	4100
150	29	002	LAS VEGAS, NEV NEVADA CLARK	4120
151	17	023	LAWRENCE, KANS KANSAS DOUGLAS	4150
152	37	016	LAWTON, OKLA OKLAHOMA COMANCHE	4200
153	20	001	LEWISTON-AUBURN, MAINE MAINE ANDROSCOGGIN	4243
154	18	009 025 034 057 105 120	LEXINGTON-FAYETTE, KY KENTUCKY BOURBON CLARK FAYETTE JESSAMINE SCOTT WOODFORD	4280
155	36	002 006 069 081	LIMA, OHIO OHIO ALLEN AUGLAIZE PUTNAM VAN WERT	4320
156	28	055	LINCOLN, NEBR NEBRASKA LANCASTER	4360
157	04	060 063	LITTLE ROCK-NORTH LITTLE ROCK, ARK ARKANSAS PULASKI SALINE	4400
158	31	013	LONG BRANCH-ASBURY PARK, N. J NEW JERSEY MONMOUTH	4410

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159	44	092 102	LONGVIEW-MARSHALL, TEX TEXAS GREGG HARRISON	4420
160	36	047	LORAIN-ELYRIA, OHIO OHIO LORAIN	4440
161	05	019	LOS ANGELES-LONG BEACH, CALIF CALIFORNIA LOS ANGELES	4480
162	15	010 022	LOUISVILLE, KY.-IND INDIANA CLARK FLOYD	4520
	18	015 056 093	KENTUCKY BULLITT JEFFERSON OLDHAM	
163	44	152	LUBBOCK, TEX TEXAS LUBBOCK	4600
164	47	015 018 048 360	LYNCHBURG, VA VIRGINIA AMHERST APPOMATTOX CAMPBELL LYNCHBURG CITY IND	4640
165	11	011 076 084 143	MACON, GA GEORGIA BIBB HOUSTON JONES TWIGGS	4680
166	50	013	MADISON, WIS WISCONSIN DANE	4720
167	30	006	MANCHESTER-NASHUA, N.H NEW HAMPSHIRE HILLSBOROUGH	4763

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168	36	070	MANSFIELD, OHIO OHIO RICHLAND	4800
169	44	108	MCALLEN-PHARR-EDINBURG, TEX TEXAS HIDALGO	4880
170	38	015	MEDFORD, OREG OREGON JACKSON	4890
171	10	005	MELBOURNE-TITUSVILLE-COCOA, FLA FLORIDA BREVARD	4900
172	04 25 43	010 017 079 084	MEMPHIS, TENN.-ARK.-MISS ARKANSAS CRITTENDEN MISSISSIPPI DE SOTO TENNESSEE SHELBY TIPTON	4920
173	10	013	MIAMI, FLA FLORIDA DADE	5000
174	44	165	MIDLAND, TEX TEXAS MIDLAND	5040
175	50	041 046 067 068	MILWAUKEE, WIS WISCONSIN MILWAUKEE OZAUKEE WASHINGTON WAUKESHA	5080

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176	24		MINNEAPOLIS-ST. PAUL, MINN.-WISC	5120
		002	MINNESOTA	
		010	ANOKA	
		013	CARVER	
		019	CHISAGO	
		027	DAKOTA	
		062	HENNEPIN	
		070	RAMSEY	
		082	SCOTT	
		086	WASHINGTON	
	50		WRIGHT	
		056	WISCONSIN	
			ST CROIX	
177	01		MOBILE, ALA	5160
		002	ALABAMA	
		049	BALWIN	
			MOBILE	
178	05		MODESTO, CALIF	5170
		050	CALIFORNIA	
			STANISLAUS	
179	19		MONROE, LA	5200
		037	LOUISIANA	
			OUACHITA	
180	01		MONTGOMERY, ALA	5240
		001	ALABAMA	
		026	AUTAUGA	
		051	ELMORE	
			MONTGOMERY	
181	15		MUNCIE, IND	5280
		018	INDIANA	
			DELAWARE	
182	23		MUSKEGON-NORTON SHORES-MUSKEGON HEIGHTS, MICH	5320
		061	MICHIGAN	
		064	MUSKEGON	
			OCEANA	

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183	43		NASHVILLE-DAVIDSON, TENN	5360
		011	TENNESSEE	
		019	CHEATHAM	
		022	DAVIDSON NASHVILLE COEXT	
		074	DICKSON	
		075	ROBERTSON	
		083	RUTHERFORD	
		094	SUMNER	
		095	WILLIAMSON	
			WILSON	
184	33		NASSAU-SUFFOLK, N.Y	5380
		028	NEW YORK	
		048	NASSAU	
			SUFFOLK	
185	22		NEW BEDFORD-FALL RIVER, MASS	5403
		003	MASSACHUSETTS	
			BRISTOL	
186	31		NEW BRUNSWICK-PERTH AMBOY-SAYREVILLE, N.J	5460
		012	NEW JERSEY	
			MIDDLESEX	
187	07		NEW HAVEN-WATERBURY-MERIDEN, CONN	5483
		005	CONNECTICUT	
			NEW HAVEN	
188	07		NEW LONDON-NORWICH, CONN	5523
		006	CONNECTICUT	
			NEW LONDON	
189	19		NEW ORLEANS, LA	5560
		026	LOUISIANA	
		036	JEFFERSON	
		044	ORLEANS-NEW ORLEANS COEXT	
		052	ST BERNARD	
			ST TAMMANY	
190	31		NEW YORK, N.Y.-N.J	5600
		002	NEW JERSEY	
			BERGEN	
	33		NEW YORK	
		029	NEW YORK CITY	
		038	PUTNAM	
		040	ROCKLAND	
		056	WESTCHESTER	

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191	31	007 014 018 020	NEWARK, N.J NEW JERSEY ESSEX MORRIS SOMERSET UNION	5640
192	36	045	NEWARK, OHIO OHIO LICKING	5645
193	33	034	NEWBURGH-MIDDLETOWN, N.Y NEW YORK ORANGE	5660
194	47	108 141 294 348 366 408	NEWPORT NEWS-HAMPTON, VA VIRGINIA GLOUCESTER JAMES CITY YORK HAMPTON CITY IND NEWPORT NEWS CITY IND WILLIAMSBURG CITY IND	5680
195	34 47	027 315 369 378 399 402	NORFOLK-VIRGINIA BEACH-PORTSMOUTH, VA.-N.C NORTH CAROLINA CURRITUCK VIRGINIA CHESAPEAKE CITY IND NORFOLK CITY IND PORTSMOUTH CITY IND SUFFOLK CITY IND VIRGINIA BEACH CITY IND	5720
196	39	035 040 045	NORTHEAST PENNSYLVANIA PENNSYLVANIA LACKAWANNA LUZERNE MONROE	5745
197	10	042	OCALA, FLA FLORIDA MARION	5790
198	44	068	ODESSA, TEX TEXAS ECTOR	5800

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199	37	009 014 044 055 063	OKLAHOMA CITY, OKLA OKLAHOMA CANADIAN CLEVELAND MC CLAIN OKLAHOMA POTTAWATOMIE	5880
200	48	034	OLYMPIA, WASH WASHINGTON THURSTON	5910
201	16 28	078 028 077	OMAHA, NEBR.-IOWA IOWA POTTAWATTAMIE NEBRASKA DOUGLAS SARPY	5920
202	10	048 049 059	ORLANDO, FLA FLORIDA ORANGE OSCEOLA SEMINOLE	5960
203	18	030	OWENSBORO, KY KENTUCKY DAVIESS	5990
204	05	056	OXNARD-SIMI VALLEY-VENTURA, CALIF CALIFORNIA VENTURA	6000
205	10	003	PANAMA CITY, FLA FLORIDA BAY	6015
206	36 49	084 053 054	PARKERSBURG-MARIETTA, W. VA.-OHIO OHIO WASHINGTON WEST VIRGINIA WIRT WOOD	6020
207	25	030	PASCAGOULA-MOSS POINT, MISS MISSISSIPPI JACKSON	6025
208	31	016	PATERSON-CLIFTON-PASSAIC, N. J NEW JERSEY PASSAIC	6040

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209	10	017 057	PENSACOLA, FLA FLORIDA ESCAMBIA SANTA ROSA	6080
210	14	072 090 102	PEORIA, ILL ILLINOIS PEORIA TAZEWELL WOODFORD	6120
211	47	081 222 321 354 375	PETERSBURG-COLONIAL HEIGHTS-HOPEWELL, VA VIRGINIA DINWIDDIE PRINCE GEORGE COLONIAL HEIGHTS CITY IND HOPEWELL CITY IND PETERSBURG CITY IND	6140
212	31 39	003 004 008 009 015 023 046 051	PHILADELPHIA, PA.-N.J NEW JERSEY BURLINGTON CAMDEN GLOUCESTER PENNSYLVANIA BUCKS CHESTER DELAWARE MONTGOMERY PHILADELPHIA COEXT	6160
213	03	007	PHOENIX, ARIZ ARIZONA MARICOPA	6200
214	04	035	PINE BLUFF, ARK ARKANSAS JEFFERSON	6240
215	39	002 004 063 065	PITTSBURGH, PA PENNSYLVANIA ALLEGHENY BEAVER WASHINGTON WESTMORELAND	6280
216	22	002	PITTSFIELD, MASS MASSACHUSETTS BERKSHIRE	6323

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
217	20	003 012	PORTLAND, MAINE MAINE CUMBERLAND SAGadahOC	6403
218	38 48	003 026 034 006	PORTLAND, OREG.-WASH OREGON CLACKAMAS MULTNOMAH WASHINGTON WASHINGTON CLARK	6440
219	20 30	016 008 009	PORTSMOUTH-DOVER-ROCHESTER, N.H.-MAINE MAINE YORK NEW HAMPSHIRE ROCKINGHAM STRAFFORD	6453
220	33	013	POUGHKEEPSIE, N.Y NEW YORK DUTCHESS	6460
221	40	001 002 004 005	PROVIDENCE-HARWICK-PAWUCKET, R.I RHODE ISLAND BRISTOL KENT PROVIDENCE WASHINGTON	6483
222	45	025	PROVO-OREM, UTAH UTAH UTAH	6520
223	06	051	PUEBLO, COLO COLORADO PUEBLO	6560
224	50	052	RACINE, WIS WISCONSIN RACINE	6600
225	34	032 068 092	RALEIGH-DURHAM, N.C NORTH CAROLINA DURHAM ORANGE WAKE	6640

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS -SMSA
226	39	006	READING, PA PENNSYLVANIA BERKS	6680
227	05	045	REDDING, CALIF CALIFORNIA SHASTA	6690
228	29	016	RENO, NEV NEVADA WASHOE	6720
229	48	003 011	RICHLAND-KENNEWICK-PASCO, WASH WASHINGTON BENTON FRANKLIN	6740
230	47	057 063 111 126 129 189 216 384	RICHMOND, VA VIRGINIA CHARLES CITY CHESTERFIELD GOOCHLAND HANOVER HENRICO NEW KENT POWHATAN RICHMOND CITY IND	6760
231	05	033 036	RIVERSIDE-SAN BERNARDINO-ONTARIO, CALIF CALIFORNIA RIVERSIDE SAN BERNARDINO	6780
232	47	036 069 240 387 390	ROANOKE, VA VIRGINIA BOTETOURT CRAIG ROANOKE ROANOKE CITY IND SALEM CITY IND	6800
233	24	055	ROCHESTER, MINN MINNESOTA OLMSTED	6820

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
234	33	024 026 033 035 055	ROCHESTER, N.Y NEW YORK LIVINGSTON MONROE ONTARIO ORLEANS WAYNE	6840
235	14	004 101	ROCKFORD, ILL ILLINOIS BOONE WINNEBAGO	6880
236	41	046	ROCK HILL, S.C SOUTH CAROLINA YORK	6885
237	05	031 034 057	SACRAMENTO, CALIF CALIFORNIA PLACER SACRAMENTO YOLO	6920
238	23	073	SAGINAW, MICH MICHIGAN SAGINAW	6960
239	24	005 071 073	ST. CLOUD, MINN MINNESOTA BENTON SHERBURNE STEARNS	6980
240	26	002 011	ST. JOSEPH, MO MISSOURI ANDREW BUCHANAN	7000
241	14 26	014 060 067 082 036 050 092 095 096	ST. LOUIS, MO.-ILL ILLINOIS CLINTON MADISON MONROE ST CLAIR MISSOURI FRANKLIN JEFFERSON ST CHARLES ST LOUIS ST LOUIS CITY IND	7040

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
242	38	024 027	SALEM, OREG OREGON MARION POLK	7080
243	05	027	SALINAS-SEASIDE-MONTEREY, CALIF CALIFORNIA MONTEREY	7120
244	34	013 080	SALISBURY-CONCORD, N.C NORTH CAROLINA CABARRUS ROWAN	7140
245	45	006 018 023 029	SALT LAKE CITY-OGDEN, UTAH UTAH DAVIS SALT LAKE TOOELE WEBER	7160
246	44	226	SAN ANGELO, TEX TEXAS TOM GREEN	7200
247	44	015 046 094	SAN ANTONIO, TEX TEXAS BEXAR COMAL GUADALUPE	7240
248	05	037	SAN DIEGO, CALIF CALIFORNIA SAN DIEGO	7320
249	05	001 007 021 030 041	SAN FRANCISCO-OAKLAND, CALIF CALIFORNIA ALAMEDA CONTRA COSTA MARIN SAN FRANCISCO COEXT SAN MATEO	7360
250	05	043	SAN JOSE, CALIF CALIFORNIA SANTA CLARA	7400

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
251	05	042	SANTA BARBARA-SANTA MARIA-LOMPOC, CALIF CALIFORNIA SANTA BARBARA	7480
252	05	044	SANTA CRUZ, CALIF CALIFORNIA SANTA CRUZ	7485
253	05	049	SANTA ROSA, CALIF CALIFORNIA SONOMA	7500
254	10	058	SARASOTA, FLA FLORIDA SARASOTA	7510
255	11	015 025 051	SAVANNAH, GA GEORGIA BRYAN CHATHAM EFFINGHAM	7520
256	48	017 031	SEATTLE-EVERETT, WASH WASHINGTON KING SNOHOMISH	7600
257	39	043	SHARON, PA PENNSYLVANIA MERCER	7610
258	50	060	SHEBOYGAN, WISC WISCONSIN SHEBOYGAN	7620
259	44	091	SHERMAN-DENISON, TEX TEXAS GRAYSON	7640
260	19	008 009 060	SHREVEPORT, LA LOUISIANA BOSSIER CADDO WEBSTER	7680
261	16 28	097 022	SIOUX CITY, IOWA-NEBR IOWA WOODBURY NEBRASKA DAKOTA	7720

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
262	42	049	SIoux FALLS, S. DAK SOUTH DAKOTA MINNEHAHA	7760
263	15	050 071	SOUTH BEND, IND INDIANA MARSHALL ST JOSEPH	7800
264	48	032	SPOKANE, WASH WASHINGTON SPOKANE	7840
265	14	065 084	SPRINGFIELD, ILL ILLINOIS MENARD SANGAMON	7880
266	26	022 039	SPRINGFIELD, MO MISSOURI CHRISTIAN GREENE	7920
267	36	011 012	SPRINGFIELD, OHIO OHIO CHAMPAIGN CLARK	7960
268	22	007 008	SPRINGFIELD-CHICOPEE-HOLYOKE, MASS MASSACHUSETTS HAMPDEN HAMPSHIRE	8003
269	39	014	STATE COLLEGE, PA PENNSYLVANIA CENTRE	8050
270	36 49	041 005 015	STEBENVILLE-WEIRTON, OHIO-W. VA OHIO JEFFERSON WEST VIRGINIA BROOKE HANCOCK	8080
271	05	039	STOCKTON, CALIF CALIFORNIA SAN JOAQUIN	8120

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
272	33	025 032 036	SYRACUSE, N.Y. NEW YORK MADISON ONONDAGA OSWEGO	8160
273	48	027	TACOMA, WASH WASHINGTON PIERCE	8200
274	10	037 065	TALLAHASSEE, FLA FLORIDA LEON WAKULLA	8240
275	10	029 051 052	TAMPA-ST. PETERSBURG, FLA FLORIDA HILLSBOROUGH PASCO PINELLAS	8280
276	15	011 077 083 084	TERRE HAUTE, IND INDIANA CLAY SULLIVAN VERMILLION VIGO	8320
277	04 44	041 046 019	TEXARKANA, TEX.-TEXARKANA, ARK ARKANSAS LITTLE RIVER MILLER TEXAS BOWIE	8360
278	23 36	050 026 048 062 087	TOLEDO, OHIO-MICH MICHIGAN MONROE OHIO FULTON LUCAS OTTAWA WOOD	8400
279	17	044 070 089	TOPEKA, KANS KANSAS JEFFERSON OSAGE SHAWNEE	8440

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
280	31	011	TRENTON, N. J NEW JERSEY MERCER	8480
281	03	010	TUCSON, ARIZ ARIZONA PIMA	8520
282	37	019 049 057 066 072 073	TULSA, OKLA OKLAHOMA CREEK HAYES OSAGE ROGERS TULSA WAGONER	8560
283	01	063	TUSCALOOSA, ALA ALABAMA TUSCALOOSA	8600
284	44	212	TYLER, TEX TEXAS SMITH	8640
285	33	021 031	UTICA-ROME, N.Y NEW YORK HERKIMER ONEIDA	8680
286	05	028 048	VALLEJO-FAIRFIELD-NAPA, CALIF CALIFORNIA NAPA SOLANO	8720
287	44	235	VICTORIA, TEX TEXAS VICTORIA	8750
288	31	006	VINELAND-MILLVILLE-BRIDGETON, N. J NEW JERSEY CUMBERLAND	8760
289	05	054	VISALIA-TULARE-PORTERVILLE, CALIF CALIFORNIA TULARE	8780

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
290	44	155	WACO, TEX TEXAS MC LENNAN	8800
291	09	001	WASHINGTON, D.C.-MD.-VA DIST. OF COLUMBIA DISTRICT OF COLUMBIA	8840
	21	009	MARYLAND CHARLES	
		016	MONTGOMERY	
		017	PRINCE GEORGES	
	47	021	VIRGINIA ARLINGTON	
		087	FAIRFAX	
		159	LOUDDUN	
		225	PRINCE WILLIAM	
		300	ALEXANDRIA CITY IND	
		333	FAIRFAX CITY IND	
		336	FALLS CHURCH CITY IND	
292	16	007	WATERLOO-CEDAR FALLS, IOWA IOWA BLACK HAWK	8920
293	50	037	WAUSAU, WISC WISCONSIN MARATHON	8940
294	10	050	WEST PALM BEACH-BOCA RATON, FLA FLORIDA PALM BEACH	8960
295	36	007	WHEELING, W. VA.-OHIO OHIO BELMONT	9000
	49	026	WEST VIRGINIA MARSHALL	
		035	OHIO	
296	17	008	WICHITA, KANSAS KANSAS BUTLER	9040
		087	SEDGWICK	
297	44	039	WICHITA FALLS, TEX TEXAS CLAY	9080
		243	WICHITA	
298	39		WILLIAMSPORT, PA PENNSYLVANIA	9140

STANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR USE BY NCHS
 SMSA CODES BASED ON 1980 CENSUS
 STATE AND COUNTY CODES BASED ON 1970 CENSUS

NCHS SMSA	NCHS STATE	NCHS COUNTY	SMSA NAME AND COUNTY COMPONENTS	FIPS SMSA
299	08		WILMINGTON, DEL.-N.J.-MD	9160
		002	DELAWARE NEW CASTLE	
	21		MARYLAND	
		008	CECIL	
	31		NEW JERSEY	
		017	SALEM	
300	34		WILMINGTON, N.C	9200
		010	NORTH CAROLINA BRUNSWICK	
		065	NEW HANOVER	
301	22		WORCESTER-FITCHBURG-LEOMINSTER, MASS	9243
		014	MASSACHUSETTS WORCESTER	
302	48		YAKIMA, WASH	9260
		039	WASHINGTON YAKIMA	
303	39		YORK, PA	9280
		001	PENNSYLVANIA ADAMS	
		067	YORK	
304	36		YOUNGSTOWN-WARREN, OHIO	9320
		050	OHIO MAHONING	
		078	TRUMBULL	
305	05		YUBA CITY, CALIF	9340
		051	CALIFORNIA SUTTER	
		058	YUBA	

NATALITY DOCUMENTATION TABLE 1.
LIVE BIRTHS BY AGE OF MOTHER, LIVE-BIRTH ORDER AND RACE OF CHILD: UNITED STATES, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

LIVE-BIRTH ORDER AND RACE OF CHILD	A G E O F M O T H E R								
	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
ALL RACES									
TOTAL-----	3,629,230	9,632	527,392	1,212,000	1,128,188	581,454	146,056	23,326	1,190
FIRST CHILD-----	1,553,665	9,263	407,615	600,444	388,419	125,323	20,337	2,179	85
SECOND CHILD-----	1,159,161	233	97,585	416,033	413,010	196,531	32,855	2,816	98
THIRD CHILD-----	544,103	11	15,503	141,298	209,710	140,104	33,859	3,517	101
FOURTH CHILD-----	203,795	2	1,991	36,369	73,959	64,678	23,086	3,591	119
FIFTH CHILD-----	78,047	-	213	8,722	24,356	27,451	14,102	3,071	132
SIXTH CHILD-----	34,237	-	28	1,913	8,436	12,899	8,527	2,314	120
SEVENTH CHILD-----	16,557	-	6	427	2,980	6,154	5,015	1,851	124
EIGHTH CHILD AND OVER----	18,889	-	19	229	1,611	5,257	7,504	3,865	404
NOT STATED-----	20,784	123	4,432	6,565	5,707	3,057	771	122	7
WHITE									
TOTAL-----	2,908,669	3,970	370,013	967,770	945,776	484,965	117,496	17,827	852
FIRST CHILD-----	1,269,993	3,871	295,955	503,807	339,660	108,027	16,914	1,692	67
SECOND CHILD-----	944,940	66	62,605	331,864	353,638	167,631	26,887	2,175	74
THIRD CHILD-----	426,406	6	7,993	100,219	170,027	117,470	27,827	2,781	83
FOURTH CHILD-----	150,415	-	765	21,427	54,465	52,004	18,836	2,830	88
FIFTH CHILD-----	54,687	-	76	4,410	15,910	20,692	11,069	2,423	107
SIXTH CHILD-----	23,244	-	12	800	4,925	9,159	6,469	1,791	88
SEVENTH CHILD-----	11,084	-	2	164	1,607	4,152	3,704	1,373	82
EIGHTH CHILD AND OVER----	12,304	-	6	132	799	3,295	5,149	2,666	257
NOT STATED-----	15,596	27	2,599	4,947	4,745	2,535	641	96	6

NATALITY DOCUMENTATION TABLE 1.
LIVE BIRTHS BY AGE OF MOTHER, LIVE-BIRTH ORDER AND RACE OF CHILD: UNITED STATES, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

LIVE-BIRTH ORDER AND RACE OF CHILD	A G E O F M O T H E R								
	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
ALL OTHER									
TOTAL-----	720,569	5,662	157,379	244,230	182,412	96,489	28,560	5,499	338
FIRST CHILD-----	283,672	5,392	111,660	96,637	48,759	17,296	3,423	487	18
SECOND CHILD-----	214,221	167	34,980	84,169	59,372	28,900	5,968	641	24
THIRD CHILD-----	117,697	5	7,510	41,079	39,683	22,634	6,032	736	18
FOURTH CHILD-----	53,380	2	1,226	14,942	19,494	12,674	4,250	761	31
FIFTH CHILD-----	23,360	-	137	4,312	8,446	6,759	3,033	648	25
SIXTH CHILD-----	10,993	-	16	1,113	3,511	3,740	2,058	523	32
SEVENTH CHILD-----	5,473	-	4	263	1,373	2,002	1,311	478	42
EIGHTH CHILD AND OVER----	6,585	-	13	97	812	1,962	2,355	1,199	147
NOT STATED-----	5,188	96	1,833	1,618	962	522	130	26	1
BLACK									
TOTAL-----	587,797	5,425	143,278	208,194	139,536	67,310	19,867	3,970	217
FIRST CHILD-----	230,190	5,168	100,977	79,616	32,152	9,989	2,000	280	8
SECOND CHILD-----	172,274	155	32,179	72,148	45,305	18,513	3,542	414	18
THIRD CHILD-----	97,478	5	7,056	36,224	32,830	16,817	4,041	493	12
FOURTH CHILD-----	44,848	2	1,181	13,434	16,361	10,061	3,215	575	19
FIFTH CHILD-----	19,629	-	134	3,972	7,208	5,405	2,398	499	13
SIXTH CHILD-----	9,085	-	16	1,017	3,008	2,953	1,635	432	24
SEVENTH CHILD-----	4,471	-	4	253	1,176	1,620	1,044	348	26
EIGHTH CHILD AND OVER----	5,315	-	7	88	744	1,567	1,900	912	97
NOT STATED-----	4,507	95	1,724	1,442	752	385	92	17	-

NATALITY DOCUMENTATION TABLE 2.
LIVE BIRTHS BY SPECIFIED RACE OF CHILD AND SEX: UNITED STATES AND EACH STATE, 1981

PAGE 1

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE AND SEX	SPECIFIED RACE OF CHILD									
	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	HAWAIIAN	OTHER NONWHITE	FILIPINO	OTH ASIAN OR PACIFIC ISLANDER
UNITED STATES-----	3,629,238	2,908,669	587,797	37,162	13,900	8,863	6,558	2,867	15,965	47,457
-----	1,860,272	1,494,437	297,864	18,820	7,219	4,474	3,390	1,467	8,293	24,308
E-----	1,768,966	1,414,232	289,933	18,342	6,681	4,389	3,168	1,400	7,672	23,149
ALABAMA-----	61,554	39,677	21,500	37	21	13	4	2	25	275
-----	31,202	20,260	10,746	18	11	5	2	2	12	146
E-----	30,352	19,417	10,754	19	10	8	2	-	13	129
ALASKA-----	10,096	7,103	457	2,205	15	40	27	16	121	112
-----	5,263	3,700	242	1,143	7	19	14	7	76	55
E-----	4,833	3,403	215	1,062	8	21	13	9	45	57
ARIZONA-----	51,478	43,513	2,227	5,053	110	94	13	8	86	374
-----	26,309	22,323	1,178	2,450	56	42	6	6	46	202
E-----	25,169	21,190	1,049	2,603	54	52	7	2	40	172
KANSAS-----	35,807	26,543	8,918	138	19	8	7	1	22	151
-----	18,354	13,607	4,567	70	9	6	3	1	16	75
E-----	17,453	12,936	4,351	68	10	2	4	-	6	76
CALIFORNIA-----	420,726	341,234	45,030	3,142	6,073	3,165	276	246	7,214	14,346
-----	215,699	175,205	22,978	1,578	3,124	1,571	144	121	3,730	7,248
E-----	205,027	166,029	22,052	1,564	2,949	1,594	132	125	3,484	7,098

NATALITY DOCUMENTATION TABLE 2.
LIVE BIRTHS BY SPECIFIED RACE OF CHILD AND SEX: UNITED STATES AND EACH STATE, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE AND SEX	TOTAL	SPECIFIED RACE OF CHILD								OTH ASIAN OR PACIFIC ISLANDER
		WHITE	BLACK	INDIAN	CHINESE	JAPANESE	HAWAIIAN	OTHER NONWHITE	FILIPINO	
COLORADO-----	52,103	47,751	2,541	564	52	98	17	8	57	1,015
MALE-----	26,579	24,312	1,310	289	25	52	9	3	33	546
FEMALE-----	25,524	23,439	1,231	275	27	46	8	5	24	469
CONNECTICUT-----	39,919	34,307	4,949	47	69	38	7	66	37	399
MALE-----	20,387	17,557	2,477	22	38	19	4	36	21	213
FEMALE-----	19,532	16,750	2,472	25	31	19	3	30	16	186
DELAWARE-----	9,184	6,867	2,217	26	4	2	-	-	7	61
MALE-----	4,734	3,568	1,097	18	3	2	-	-	7	39
FEMALE-----	4,450	3,299	1,120	8	1	-	-	-	-	22
DIST. OF COLUMBIA--	9,201	1,541	7,567	5	19	2	2	-	11	54
MALE-----	4,796	793	3,949	3	11	-	1	-	6	33
FEMALE-----	4,405	748	3,618	2	8	2	1	-	5	21
FLORIDA-----	138,491	101,014	35,846	223	224	71	8	125	175	805
MALE-----	71,081	52,023	18,194	112	119	37	4	68	102	422
FEMALE-----	67,410	48,991	17,652	111	105	34	4	57	73	383
GEORGIA-----	89,943	56,491	32,532	88	97	54	18	4	67	592
MALE-----	46,077	29,221	16,412	35	48	22	8	-	34	297
FEMALE-----	43,866	27,270	16,120	53	49	32	10	4	33	295

NATALITY DOCUMENTATION TABLE 2.
LIVE BIRTHS BY SPECIFIED RACE OF CHILD AND SEX: UNITED STATES AND EACH STATE, 1981

PAGE 3

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE AND SEX	SPECIFIED RACE OF CHILD									
	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	HAWAIIAN	OTHER NONWHITE	FILIPINO	OTH ASIAN OR PACIFIC ISLANDER
HAWAII-----	18,214	4,044	640	167	731	2,586	5,698	6	2,957	1,385
-----	9,363	2,117	330	82	373	1,313	2,960	2	1,491	695
LE-----	8,851	1,927	310	85	358	1,273	2,738	4	1,466	690
AH-----	19,623	19,016	91	291	21	84	9	3	26	82
-----	9,982	9,684	49	148	8	41	4	-	13	35
LE-----	9,641	9,332	42	143	13	43	5	3	13	47
IL-----	185,028	141,223	39,482	361	453	212	15	20	849	2,413
-----	94,873	72,639	19,979	165	247	109	7	10	435	1,282
LE-----	90,155	68,584	19,503	196	206	103	8	10	414	1,131
MD-----	84,645	74,731	9,270	108	91	48	8	8	70	311
-----	43,664	38,684	4,662	53	49	29	2	4	35	146
LE-----	40,981	36,047	4,608	55	42	19	6	4	35	165
WA-----	45,928	44,155	1,120	155	39	26	3	2	34	394
-----	23,519	22,595	584	80	15	13	2	-	19	211
LE-----	22,409	21,560	536	75	24	13	1	2	15	183
WY-----	41,246	36,788	3,352	384	61	22	6	7	41	585
-----	21,231	18,897	1,762	190	30	13	3	5	22	309
LE-----	20,015	17,891	1,590	194	31	9	3	2	19	276

NATALITY DOCUMENTATION TABLE 2.
LIVE BIRTHS BY SPECIFIED RACE OF CHILD AND SEX: UNITED STATES AND EACH STATE, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE AND SEX	SPECIFIED RACE OF CHILD									
	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	HAWAIIAN	OTHER NONWHITE	FILIPINO	OTH ASIAN OR PACIFIC ISLANDER
KENTUCKY-----	57,243	51,391	5,368	45	19	20	16	6	45	333
MALE-----	29,246	26,296	2,704	24	11	11	8	4	18	170
FEMALE-----	27,997	25,095	2,664	21	8	9	8	2	27	163
LOUISIANA-----	82,234	50,417	30,545	290	51	28	7	37	109	750
MALE-----	42,122	26,034	15,418	160	29	13	3	21	65	379
FEMALE-----	40,112	24,383	15,127	130	22	15	4	16	44	371
MAINE-----	16,525	16,196	93	125	15	8	1	5	11	71
MALE-----	8,392	8,231	41	64	8	3	1	2	6	36
FEMALE-----	8,133	7,965	52	61	7	5	-	3	5	35
MARYLAND-----	61,347	41,241	18,500	124	208	75	12	13	182	992
MALE-----	31,093	20,905	9,346	70	114	41	3	10	109	495
FEMALE-----	30,254	20,336	9,154	54	94	34	9	3	73	497
MASSACHUSETTS-----	74,025	67,097	5,383	169	459	52	5	7	53	800
MALE-----	38,157	34,672	2,690	87	250	23	2	3	33	397
FEMALE-----	35,868	32,425	2,693	82	209	29	3	4	20	403
MICHIGAN-----	140,693	115,683	22,696	732	221	95	15	28	247	976
MALE-----	72,001	59,361	11,439	386	128	50	11	15	109	502
FEMALE-----	68,692	56,322	11,257	346	93	45	4	13	138	474

NATALITY DOCUMENTATION TABLE 2.
LIVE BIRTHS BY SPECIFIED RACE OF CHILD AND SEX: UNITED STATES AND EACH STATE, 1981

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(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

SPECIFIED RACE OF CHILD

STATE AND SEX	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	HAWAIIAN	OTHER NONWHITE	FILIPINO	OTH ASIAN OR PACIFIC ISLANDER
MINNESOTA-----	68,662	64,203	1,622	1,194	93	54	5	3	63	1,425
MALE-----	35,436	33,151	822	615	53	25	3	2	44	721
FEMALE-----	33,226	31,052	800	579	40	29	2	1	19	704
MISSISSIPPI-----	46,231	23,782	22,065	163	33	8	1	2	49	128
MALE-----	23,680	12,314	11,170	79	15	4	1	1	27	69
FEMALE-----	22,551	11,468	10,895	84	18	4	-	1	22	59
MISSOURI-----	76,964	64,343	11,702	177	114	50	15	9	105	449
MALE-----	39,504	33,111	5,923	84	63	25	3	5	64	226
FEMALE-----	37,460	31,232	5,779	93	51	25	12	4	41	223
MONTANA-----	14,316	12,680	66	1,410	6	23	10	5	19	97
MALE-----	7,350	6,487	35	754	3	8	5	3	7	48
FEMALE-----	6,966	6,193	31	656	3	15	5	2	12	49
NEBRASKA-----	27,176	25,293	1,311	306	31	22	4	2	31	176
MALE-----	13,843	12,887	658	165	13	10	2	1	22	85
FEMALE-----	13,333	12,406	653	141	18	12	2	1	9	91
NEVADA-----	14,103	11,736	1,404	470	56	37	20	15	122	243
MALE-----	7,232	6,016	728	228	29	23	13	7	62	126
FEMALE-----	6,871	5,720	676	242	27	14	7	8	60	117

NATALITY DOCUMENTATION TABLE 2.
LIVE BIRTHS BY SPECIFIED RACE OF CHILD AND SEX: UNITED STATES AND EACH STATE, 1981

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(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE AND SEX	TOTAL	SPECIFIED RACE OF CHILD								OTH ASIAN OR PACIFIC ISLANDER
		WHITE	BLACK	INDIAN	CHINESE	JAPANESE	HAWAIIAN	OTHER NONWHITE	FILIPINO	
NEW HAMPSHIRE-----	13,517	13,295	112	16	16	8	1	-	10	59
MALE-----	6,896	6,788	49	11	9	2	1	-	5	31
FEMALE-----	6,621	6,507	63	5	7	6	-	-	5	28
NEW JERSEY-----	96,651	74,857	19,418	221	285	163	2	103	186	1,416
MALE-----	49,379	38,368	9,780	114	132	91	-	49	109	736
FEMALE-----	47,272	36,489	9,638	107	153	72	2	54	77	680
NEW MEXICO-----	26,699	22,144	693	3,561	48	16	6	-	23	208
MALE-----	13,714	11,380	356	1,828	28	8	-	-	8	106
FEMALE-----	12,985	10,764	337	1,733	20	8	6	-	15	102
NEW YORK-----	242,297	183,904	50,410	662	2,002	320	9	1,778	442	2,770
MALE-----	124,064	94,424	25,496	348	1,040	170	6	906	223	1,451
FEMALE-----	118,233	89,480	24,914	314	962	150	3	872	219	1,319
NORTH CAROLINA----	83,774	56,770	24,763	1,533	65	37	18	6	94	488
MALE-----	42,787	28,998	12,672	769	25	18	9	4	50	242
FEMALE-----	40,987	27,772	12,091	764	40	19	9	2	44	246
NORTH DAKOTA-----	12,398	11,377	114	820	6	4	-	2	18	57
MALE-----	6,361	5,872	48	413	4	2	-	-	4	18
FEMALE-----	6,037	5,505	66	407	2	2	-	2	14	39

NATALITY DOCUMENTATION TABLE 2.
LIVE BIRTHS BY SPECIFIED RACE OF CHILD AND SEX: UNITED STATES AND EACH STATE, 1981

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(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE AND SEX	SPECIFIED RACE OF CHILD									
	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	HAWAIIAN	OTHER NONWHITE	FILIPINO	OTH ASIAN OR PACIFIC ISLANDER
OHIO-----	167,055	142,325	23,053	317	189	62	3	219	103	784
MALE-----	85,736	73,204	11,642	173	107	28	1	118	58	405
FEMALE-----	81,319	69,121	11,411	144	82	34	2	101	45	379
OKLAHOMA-----	53,668	42,727	5,114	5,044	66	24	17	7	59	610
MALE-----	27,648	22,162	2,574	2,525	23	15	9	3	32	305
FEMALE-----	26,020	20,565	2,540	2,519	43	9	8	4	27	305
OREGON-----	43,022	39,878	925	682	155	168	51	4	152	1,007
MALE-----	22,128	20,546	458	338	76	91	31	2	67	519
FEMALE-----	20,894	19,332	467	344	79	77	20	2	85	488
PENNSYLVANIA-----	160,428	137,763	20,686	122	253	83	8	17	172	1,324
MALE-----	82,349	70,690	10,608	61	132	45	7	8	92	706
FEMALE-----	78,079	67,073	10,078	61	121	38	1	9	80	618
RHODE ISLAND-----	12,448	11,187	816	77	28	7	-	3	22	308
MALE-----	6,576	5,907	423	41	19	4	-	1	11	170
FEMALE-----	5,872	5,280	393	36	9	3	-	2	11	138
SOUTH CAROLINA-----	51,853	30,618	20,790	75	22	18	8	2	91	229
MALE-----	26,301	15,674	10,398	34	14	7	2	2	54	116
FEMALE-----	25,552	14,944	10,392	41	8	11	6	-	37	113

NATALITY DOCUMENTATION TABLE 2.
LIVE BIRTHS BY SPECIFIED RACE OF CHILD AND SEX: UNITED STATES AND EACH STATE, 1981

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(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE AND SEX	SPECIFIED RACE OF CHILD									
	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	HAWAIIAN	OTHER NONWHITE	FILIPINO	OTH ASIAN OR PACIFIC ISLANDER
SOUTH DAKOTA-----	12,733	10,906	97	1,644	6	7	5	1	14	53
MALE-----	6,580	5,629	41	863	3	2	3	1	7	31
FEMALE-----	6,153	5,277	56	781	3	5	2	-	7	22
TENNESSEE-----	67,081	51,447	15,056	63	57	29	8	3	70	348
MALE-----	34,553	26,575	7,665	37	30	12	4	2	43	185
FEMALE-----	32,528	24,872	7,391	26	27	17	4	1	27	163
TEXAS-----	281,651	237,620	38,884	563	591	179	22	4	340	3,448
MALE-----	144,331	121,972	19,708	288	324	94	10	3	175	1,757
FEMALE-----	137,320	115,648	19,176	275	267	85	12	1	165	1,691
UTAH-----	41,343	39,439	284	611	77	119	36	11	37	729
MALE-----	21,212	20,241	132	312	32	66	21	4	23	381
FEMALE-----	20,131	19,198	152	299	45	53	15	7	14	348
VERMONT-----	7,952	7,892	20	5	3	2	-	1	2	27
MALE-----	4,051	4,018	12	4	2	2	-	1	1	11
FEMALE-----	3,901	3,874	8	1	1	-	-	-	1	16
VIRGINIA-----	79,256	58,148	19,224	127	180	93	18	11	484	971
MALE-----	40,904	30,103	9,855	53	83	51	8	6	259	486
FEMALE-----	38,352	28,045	9,369	74	97	42	10	5	225	485

NATALITY DOCUMENTATION TABLE 2.
LIVE BIRTHS BY SPECIFIED RACE OF CHILD AND SEX: UNITED STATES AND EACH STATE, 1981

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(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE AND SEX	SPECIFIED RACE OF CHILD									
	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	HAWAIIAN	OTHER NONWHITE	FILIPINO	OTH ASIAN OR PACIFIC ISLANDER
WASHINGTON-----	69,714	61,513	2,910	1,668	324	424	107	22	716	2,030
MALE-----	35,770	31,634	1,463	848	172	200	47	10	362	1,034
FEMALE-----	33,944	29,879	1,447	820	152	224	60	12	354	996
WEST VIRGINIA-----	27,842	26,692	1,020	4	18	1	2	-	18	87
MALE-----	14,186	13,595	516	3	13	-	-	-	12	47
FEMALE-----	13,656	13,097	504	1	5	1	2	-	6	40
WISCONSIN-----	74,337	67,825	4,808	808	95	45	3	17	65	671
MALE-----	38,107	34,811	2,428	410	56	28	1	6	27	340
FEMALE-----	36,230	33,014	2,380	398	39	17	2	11	38	331
WYOMING-----	10,814	10,282	106	340	9	19	5	2	12	39
MALE-----	5,470	5,196	50	175	6	9	2	2	7	23
FEMALE-----	5,344	5,086	56	165	3	10	3	-	5	16

NATALITY DOCUMENTATION TABLE 3.
LIVE BIRTHS BY MARITAL STATUS OF MOTHER, AGE OF MOTHER AND RACE OF CHILD: UNITED STATES, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

AGE OF MOTHER AND RACE OF CHILD	MARITAL STATUS OF MOTHER		
	TOTAL	MARRIED	UNMARRIED
ALL RACES			
ALL AGES-----	3,629,238	2,942,633	686,605
UNDER 15 YEARS-----	9,632	1,043	8,589
15-19 YEARS-----	527,392	268,153	259,239
20-24 YEARS-----	1,212,000	965,081	246,919
25-29 YEARS-----	1,128,188	1,019,014	109,174
30-34 YEARS-----	581,454	536,154	45,300
35-39 YEARS-----	146,056	131,775	14,281
40-44 YEARS-----	23,326	20,375	2,951
45-49 YEARS-----	1,190	1,038	152
WHITE			
ALL AGES-----	2,908,669	2,571,619	337,050
UNDER 15 YEARS-----	3,970	940	3,030
15-19 YEARS-----	370,013	241,027	128,986
20-24 YEARS-----	967,770	847,812	119,958
25-29 YEARS-----	945,776	893,201	52,575
30-34 YEARS-----	484,965	461,950	23,015
35-39 YEARS-----	117,496	109,688	7,808
40-44 YEARS-----	17,827	16,226	1,601
45-49 YEARS-----	852	775	77

NATALITY DOCUMENTATION TABLE 3.
 LIVE BIRTHS BY MARITAL STATUS OF MOTHER, AGE OF MOTHER AND RACE OF CHILD: UNITED STATES, 1981
 (RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

AGE OF MOTHER AND RACE OF CHILD	MARITAL STATUS OF MOTHER		
	TOTAL	MARRIED	UNMARRIED
ALL OTHER			
ALL AGES-----	720,569	371,014	349,555
UNDER 15 YEARS-----	5,662	103	5,559
15-19 YEARS-----	157,379	27,126	130,253
20-24 YEARS-----	244,230	117,269	126,961
25-29 YEARS-----	182,412	125,813	56,599
30-34 YEARS-----	96,489	74,204	22,285
35-39 YEARS-----	28,560	22,087	6,473
40-44 YEARS-----	5,499	4,149	1,350
45-49 YEARS-----	338	263	75
BLACK			
ALL AGES-----	587,797	258,918	328,879
UNDER 15 YEARS-----	5,425	64	5,361
15-19 YEARS-----	143,278	19,795	123,483
20-24 YEARS-----	208,194	88,644	119,550
25-29 YEARS-----	139,536	86,653	52,883
30-34 YEARS-----	67,310	46,854	20,456
35-39 YEARS-----	19,867	14,004	5,863
40-44 YEARS-----	3,970	2,750	1,220
45-49 YEARS-----	217	154	63

NATALITY DOCUMENTATION TABLE 4.
 LIVE BIRTHS BY ATTENDANT AND PLACE OF DELIVERY: UNITED STATES, 1981
 (RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

PLACE OF DELIVERY	TOTAL	A T T E N D A N T			
		PHYSICIAN	MIDWIFE	OTHER	UNSPECIFIED
TOTAL-----	3,629,238	3,501,917	68,291	25,097	33,933
IN HOSPITAL-----	3,591,582	3,490,919	55,537	13,303	31,823
NOT IN HOSPITAL-----	37,333	10,898	12,708	11,668	2,059
NOT CLASSIFIABLE-----	323	100	46	126	51

NATALITY DOCUMENTATION TABLE 5.
LIVE BIRTHS BY AGE OF FATHER AND AGE OF MOTHER: UNITED STATES, 1981

PAGE 1

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

AGE OF MOTHER	ALL AGES	A G E O F F A T H E R										NOT STATED
		UNDER 15 YEARS	15-19 YEARS	20-24 YEARS	25-29 YEARS	30-34 YEARS	35-39 YEARS	40-44 YEARS	45-49 YEARS	50-54 YEARS	55 YEARS AND OVER	
ALL AGES----	3,629,238	198	129,138	784,786	1,082,598	767,995	286,333	92,504	30,592	11,459	6,697	436,938
UND 15 YRS--	9,632	60	2,108	704	106	38	10	3	4	2	2	6,595
15-19 YEARS-	527,392	105	104,491	199,051	38,541	8,614	2,379	888	313	176	113	172,721
20-24 YEARS-	1,212,000	7	20,756	506,384	404,314	92,062	22,175	6,635	2,332	926	617	155,792
25-29 YEARS-	1,128,188	19	1,514	68,751	566,964	330,147	65,829	16,933	5,564	2,124	1,240	65,103
30-34 YEARS-	581,454	7	211	8,517	65,769	307,894	129,459	29,553	8,566	3,414	1,821	26,243
35-39 YEARS-	146,056	-	51	1,216	6,313	23,760	63,024	29,649	8,501	3,069	1,937	8,536
40-44 YEARS-	23,326	-	4	162	571	1,446	3,396	8,695	4,842	1,523	854	1,833
45-49 YEARS-	1,190	-	3	1	20	34	61	148	470	225	113	115

NATALITY DOCUMENTATION TABLE 6.
LIVE BIRTHS BY MONTH OF PREGNANCY PRENATAL CARE BEGAN AND RACE OF CHILD: UNITED STATES, 1981
(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

RACE OF CHILD	TOTAL	MONTH OF PREGNANCY PRENATAL CARE BEGAN									
		1ST&2ND MONTH	3RD MONTH	4TH MONTH	5TH MONTH	6TH MONTH	7TH MONTH	8TH MONTH	9TH MONTH	NO CARE	NOT STATED
ALL RACES---	3,629,238	1,840,614	859,529	350,530	191,151	112,487	73,542	42,738	19,149	48,131	91,367
WHITE-----	2,908,669	1,562,990	693,509	257,410	131,032	76,003	50,102	28,965	12,599	29,937	66,122
ALL OTHER---	720,569	277,624	166,020	93,120	60,119	36,484	23,440	13,773	6,550	18,194	25,245
BLACK-----	587,797	210,769	135,512	79,383	51,496	30,806	19,313	10,857	5,220	16,137	20,304

NATALITY DOCUMENTATION TABLE 7.
 LIVE BIRTHS BY RACE OF CHILD AND INTERVAL SINCE LAST LIVE BIRTH: TOTAL OF 49 REPORTING STATES
 AND THE DISTRICT OF COLUMBIA, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES. INCLUDES SECOND AND HIGHER ORDER BIRTHS ONLY.)

INTERVAL SINCE LAST LIVE BIRTH	RACE OF CHILD			
	ALL RACES	WHITE	TOTAL	ALL OTHER BLACK
TOTAL-----	1,891,014	1,485,932	405,082	329,485
0 MONTHS (PLURAL DELIVERIES)--	27,649	21,225	6,424	5,586
1-11 MONTHS-----	28,822	18,771	10,051	8,339
12-17 MONTHS-----	204,284	150,162	54,122	43,782
18-23 MONTHS-----	259,533	209,198	50,335	39,868
24-35 MONTHS-----	426,459	353,952	72,507	57,098
36-47 MONTHS-----	270,566	222,227	48,339	38,668
48-59 MONTHS-----	173,029	137,302	35,727	29,092
60-71 MONTHS-----	111,584	85,777	25,807	21,414
72 MONTHS AND OVER-----	282,581	209,066	73,515	63,474
NOT STATED-----	106,507	78,252	28,255	22,164

NATALITY DOCUMENTATION TABLE 8.
LIVE BIRTHS BY EDUCATIONAL ATTAINMENT OF MOTHER AND FATHER AND RACE OF CHILD: TOTAL OF 47 REPORTING STATES
AND THE DISTRICT OF COLUMBIA, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES.)

YEARS OF SCHOOL COMPLETED	M O T H E R				F A T H E R			
	ALL RACES	WHITE	ALL OTHER	BLACK	ALL RACES	WHITE	ALL OTHER	BLACK
TOTAL	2,857,147	2,268,302	588,845	500,973	2,857,147	2,268,302	588,845	500,973
0-5 YEARS	19,605	12,644	6,961	3,127	19,051	14,219	4,832	2,329
6 YEARS	15,396	11,560	3,836	2,274	15,335	12,390	2,945	1,726
7 YEARS	17,208	11,680	5,528	4,667	12,272	9,828	2,444	1,866
8 YEARS	64,896	48,590	16,306	13,694	49,200	42,325	6,875	5,237
9 YEARS	118,103	85,965	32,138	28,400	64,628	55,062	9,566	7,783
10 YEARS	192,633	136,354	56,279	50,483	117,771	96,859	20,912	17,672
11 YEARS	215,563	137,276	78,287	72,041	138,126	105,516	32,610	28,751
12 YEARS	1,234,182	996,890	237,292	207,817	1,003,782	839,609	164,173	138,807
13 YEARS	214,639	177,609	37,030	32,029	147,260	127,391	19,869	16,036
14 YEARS	220,432	180,890	39,542	33,287	223,813	193,555	30,258	23,870
15 YEARS	85,461	70,338	15,123	12,343	80,935	68,926	12,009	9,504
16 YEARS	286,099	252,589	33,510	23,349	318,458	288,602	29,856	19,945
17 YEARS OR MORE	130,443	114,690	15,753	9,279	235,664	213,619	22,045	10,574
NOT STATED	42,487	31,227	11,260	8,183	430,852	200,401	230,451	216,873

NATALITY DOCUMENTATION TABLE 9.
LIVE BIRTHS BY NUMBER OF PRENATAL VISITS AND RACE OF CHILD: TOTAL OF 48 REPORTING STATES
AND THE DISTRICT OF COLUMBIA, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES.)

RACE OF CHILD	TOTAL	NUMBER OF PRENATAL VISITS											NOT STATED
		NO VISITS	1-2 VISITS	3-4 VISITS	5-6 VISITS	7-8 VISITS	9-10 VISITS	11-12 VISITS	13-14 VISITS	15-16 VISITS	17-18 VISITS	19 + VISITS	
ALL RACES-----	3,181,813	43,782	58,792	108,787	211,504	361,312	670,884	869,618	425,015	225,842	49,710	56,324	100,243
WHITE-----	2,545,291	26,387	35,353	66,833	142,903	270,087	540,136	741,994	368,736	192,761	42,209	45,965	71,927
ALL OTHER-----	636,522	17,395	23,439	41,954	68,601	91,225	130,748	127,624	56,279	33,081	7,501	10,359	28,316
BLACK-----	542,074	15,764	20,656	36,810	59,829	78,422	111,284	105,253	45,183	28,452	6,535	9,302	24,584

NATALITY DOCUMENTATION TABLE 10.
LIVE BIRTHS BY BIRTH WEIGHT AND PERIOD OF GESTATION: TOTAL OF 49 REPORTING STATES
AND THE DISTRICT OF COLUMBIA, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES.)

PERIOD OF GESTATION	TOTAL	B I R T H W E I G H T											
		UNDER 500 GRAMS	500- 900 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
TOTAL-----	3,602,539	3,800	15,935	21,979	46,667	156,434	587,379	1,331,165	1,047,218	319,618	57,631	7,994	6,719
UNDER 28 WEEKS-----	24,685	2,863	9,797	3,414	1,364	1,226	1,752	2,134	1,063	287	51	55	679
28-31 WEEKS-----	37,903	137	2,646	9,783	8,503	4,127	4,575	4,824	2,371	595	91	24	227
32-35 WEEKS-----	157,792	55	765	4,348	19,268	40,365	40,336	33,243	15,179	3,242	545	110	336
36 WEEKS-----	106,854	7	92	559	3,168	17,115	37,375	31,809	12,905	3,070	524	77	153
37-39 WEEKS-----	1,280,737	72	317	1,087	7,496	54,956	270,354	540,806	321,528	71,118	10,313	1,482	1,208
40 WEEKS-----	766,443	32	239	296	1,381	13,044	93,827	296,481	266,181	79,851	12,731	1,616	764
41 WEEKS-----	540,606	73	221	248	957	7,489	53,179	186,529	200,317	74,598	14,591	1,794	610
42 WEEKS AND OVER---	549,672	28	155	417	1,512	10,182	61,642	187,315	192,296	76,103	16,781	2,546	695
NOT STATED-----	137,847	533	1,703	1,827	3,018	7,930	24,339	48,024	35,378	10,754	2,004	290	2,047

NATALITY DOCUMENTATION TABLE 11.
 LIVE BIRTHS BY RACE OF CHILD AND 1-MINUTE APGAR SCORE: TOTAL OF 46 REPORTING STATES, 1981
 (RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES.)

1-MINUTE APGAR SCORE	RACE OF CHILD			
	ALL RACES	WHITE	-----ALL OTHER----- TOTAL	BLACK
TOTAL-----	2,854,808	2,278,680	576,128	488,985
0-----	2,270	1,583	687	616
1-----	18,279	12,194	6,085	5,517
2-----	19,515	13,616	5,899	5,351
3-----	23,901	17,165	6,736	6,091
4-----	34,599	25,951	8,648	7,613
5-----	59,232	45,715	13,517	11,838
6-----	111,966	88,764	23,202	20,106
7-----	288,677	233,769	54,908	46,337
8-----	959,368	779,294	180,074	148,411
9-----	1,165,040	926,902	238,138	203,340
10-----	83,336	66,864	16,472	14,474
NOT STATED-----	88,625	66,863	21,762	19,291

NATALITY DOCUMENTATION TABLE 12.
LIVE BIRTHS BY RACE OF CHILD AND 5-MINUTE APGAR SCORE: TOTAL OF 46 REPORTING STATES
AND THE DISTRICT OF COLUMBIA, 1981

(RESIDENT BIRTHS ONLY, EXCLUDES BIRTHS TO NONRESIDENTS OF THE UNITED STATES.)

5-MINUTE APGAR SCORE	RACE OF CHILD			
	ALL RACES	WHITE	-----ALL OTHER----- TOTAL	BLACK
TOTAL-----	2,864,009	2,280,221	583,788	496,552
0-----	2,273	1,557	716	658
1-----	6,539	4,113	2,426	2,249
2-----	4,449	2,834	1,615	1,512
3-----	4,374	2,840	1,534	1,424
4-----	6,063	4,111	1,952	1,787
5-----	11,122	7,678	3,444	3,142
6-----	22,965	16,667	6,298	5,753
7-----	54,950	41,553	13,397	11,939
8-----	232,162	182,508	49,654	42,743
9-----	1,602,054	1,275,378	326,676	274,063
10-----	834,026	676,707	157,319	134,681
NOT STATED-----	83,032	64,275	18,757	16,601

NATALITY DOCUMENTATION TABLE 13.
LIVE BIRTHS BY MONTH AND STATE OF OCCURRENCE: UNITED STATES AND EACH STATE, 1981

(BIRTHS BY STATE OF OCCURRENCE INCLUDE BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE OF OCCURRENCE	M O N T H O F B I R T H												
	TOTAL	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
UNITED STATES-3,635,515	295,089	273,646	302,158	285,967	296,842	298,425	326,769	330,527	320,581	309,681	291,390	304,440	
ALABAMA-----	60,592	5,176	4,646	4,778	4,529	4,632	4,803	5,479	5,675	5,467	5,169	5,002	5,236
ALASKA-----	9,985	742	752	861	808	863	823	865	931	896	869	785	790
ARIZONA-----	51,624	4,118	3,882	4,322	3,918	3,996	4,290	4,550	4,634	4,556	4,656	4,274	4,428
ARKANSAS-----	34,716	3,039	2,631	2,711	2,484	2,739	2,879	3,259	3,217	3,191	2,930	2,711	2,925
CALIFORNIA-----	420,910	32,610	31,220	35,454	34,246	35,292	35,288	36,566	37,684	36,786	35,890	34,282	35,592
COLORADO-----	52,504	3,989	3,800	4,420	4,340	4,587	4,618	4,594	4,682	4,517	4,381	4,118	4,458
CONNECTICUT----	39,762	3,208	2,995	3,458	3,284	3,366	3,253	3,626	3,545	3,393	3,283	3,173	3,178
DELAWARE-----	9,442	790	738	780	726	776	756	840	850	816	800	750	820
DIST. OF COL.--	19,730	1,688	1,550	1,574	1,366	1,614	1,458	1,860	1,924	1,682	1,632	1,652	1,730
FLORIDA-----	138,121	11,289	10,065	10,908	10,034	10,531	10,742	11,803	12,646	12,928	12,784	11,843	12,548
GEORGIA-----	91,740	7,826	6,968	7,572	6,788	7,032	7,244	8,252	8,498	8,300	7,944	7,390	7,926
HAWAII-----	18,230	1,509	1,418	1,439	1,422	1,505	1,444	1,533	1,581	1,682	1,564	1,465	1,668
IDAHO-----	19,230	1,447	1,470	1,597	1,659	1,744	1,671	1,771	1,651	1,634	1,538	1,508	1,540
ILLINOIS-----	181,857	14,782	13,987	15,113	14,323	14,888	15,041	16,686	16,749	15,909	15,338	14,137	14,904
INDIANA-----	84,512	6,953	6,618	7,120	6,617	6,775	6,848	7,622	7,784	7,490	6,998	6,669	7,018
IOWA-----	46,607	3,786	3,554	3,935	3,591	3,930	3,823	4,263	4,196	4,104	3,798	3,740	3,887
KANSAS-----	40,135	3,217	2,984	3,141	3,069	3,219	3,316	3,735	3,842	3,701	3,440	3,142	3,329
KENTUCKY-----	57,988	5,031	4,430	4,755	4,300	4,425	4,754	5,449	5,359	5,139	4,873	4,646	4,827
LOUISIANA-----	82,206	6,871	5,935	6,255	5,748	6,180	6,458	7,526	7,973	7,779	7,497	6,815	7,169
MAINE-----	15,875	1,204	1,208	1,369	1,290	1,319	1,336	1,467	1,432	1,371	1,349	1,231	1,299

NATALITY DOCUMENTATION TABLE 13.
LIVE BIRTHS BY MONTH AND STATE OF OCCURRENCE: UNITED STATES AND EACH STATE, 1981

(BIRTHS BY STATE OF OCCURRENCE INCLUDE BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE OF OCCURRENCE	TOTAL	M O N T H O F B I R T H											
		JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
MARYLAND-----	54,328	4,542	4,004	4,556	4,428	4,393	4,346	4,838	4,899	4,807	4,612	4,335	4,568
MASSACHUSETTS--	75,545	6,022	5,714	6,485	6,238	6,418	6,109	6,773	6,660	6,405	6,454	6,071	6,196
MICHIGAN-----	139,412	11,306	10,691	12,058	11,542	12,019	11,585	12,532	12,595	11,986	11,526	10,637	10,935
MINNESOTA-----	68,974	5,362	5,266	6,100	5,617	5,806	5,878	6,127	6,083	6,052	5,775	5,346	5,562
MISSISSIPPI----	45,782	3,919	3,459	3,530	3,205	3,276	3,492	4,214	4,420	4,413	4,022	3,754	4,078
MISSOURI-----	78,538	6,476	5,865	6,605	5,991	6,320	6,512	7,449	7,239	6,885	6,582	6,257	6,357
MONTANA-----	13,999	1,058	1,048	1,184	1,192	1,177	1,233	1,273	1,260	1,172	1,167	1,096	1,139
NEBRASKA-----	27,514	2,143	2,104	2,413	2,124	2,362	2,307	2,592	2,419	2,442	2,184	2,201	2,223
NEVADA-----	13,881	1,103	1,042	1,145	1,083	1,131	1,195	1,265	1,224	1,203	1,234	1,085	1,171
NEW HAMPSHIRE--	13,714	1,054	1,055	1,152	1,112	1,180	1,178	1,222	1,220	1,109	1,185	1,060	1,187
NEW JERSEY-----	93,428	7,530	7,071	7,900	7,686	7,813	7,644	8,398	8,391	7,929	7,932	7,409	7,725
NEW MEXICO-----	26,088	2,006	1,920	2,198	2,114	2,122	2,272	2,428	2,326	2,226	2,190	2,100	2,186
NEW YORK-----	243,252	19,597	18,227	20,862	19,677	20,071	20,160	21,970	21,688	20,799	20,847	19,293	20,061
NORTH CAROLINA--	84,463	6,972	6,363	6,981	6,410	6,487	6,815	7,632	7,861	7,570	7,303	6,870	7,199
NORTH DAKOTA---	13,388	1,074	1,012	1,172	1,100	1,190	1,148	1,138	1,168	1,164	1,082	1,048	1,092
OHIO-----	167,584	13,971	13,001	14,486	13,529	13,472	13,788	15,135	15,074	14,607	13,951	12,987	13,583
OKLAHOMA-----	52,091	4,220	3,712	4,031	3,866	4,093	4,235	4,809	4,848	4,773	4,531	4,319	4,654
OREGON-----	44,150	3,509	3,251	3,818	3,790	3,860	3,870	3,825	3,835	3,702	3,620	3,449	3,621
PENNSYLVANIA---	161,800	13,202	12,195	13,738	13,067	13,441	13,222	14,477	14,639	14,229	13,445	12,824	13,321
RHODE ISLAND---	12,866	991	949	1,033	1,050	1,061	1,075	1,146	1,246	1,099	1,096	1,065	1,055
SOUTH CAROLINA--	49,473	4,242	3,818	4,082	3,656	3,801	3,853	4,461	4,631	4,457	4,190	3,942	4,340

NATALITY DOCUMENTATION TABLE 13.
LIVE BIRTHS BY MONTH AND STATE OF OCCURRENCE: UNITED STATES AND EACH STATE, 1981

PAGE 3

(BIRTHS BY STATE OF OCCURRENCE INCLUDE BIRTHS TO NONRESIDENTS OF THE UNITED STATES)

STATE OF OCCURRENCE	TOTAL	M O N T H O F B I R T H											
		JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
SOUTH DAKOTA---	12,674	1,018	1,023	1,040	1,050	1,142	977	1,155	1,137	1,072	1,125	952	983
TENNESSEE-----	70,753	5,999	5,353	5,799	5,313	5,485	5,743	6,488	6,654	6,279	5,856	5,750	6,034
TEXAS-----	288,363	23,915	21,169	22,161	21,291	22,971	22,945	26,055	26,953	26,382	25,840	24,250	24,431
UTAH-----	42,384	3,317	3,147	3,743	3,621	3,680	3,703	3,711	3,578	3,538	3,496	3,283	3,567
VERMONT-----	7,636	590	583	622	655	711	643	682	665	644	644	589	608
VIRGINIA-----	76,232	6,108	5,791	6,292	5,985	6,266	6,206	6,879	6,963	6,607	6,360	6,208	6,567
WASHINGTON-----	69,141	5,421	5,228	5,865	5,798	6,203	6,021	6,053	6,046	6,015	5,611	5,361	5,519
WEST VIRGINIA--	28,371	2,399	2,161	2,464	2,266	2,327	2,268	2,623	2,500	2,420	2,437	2,162	2,344
WISCONSIN-----	73,821	5,949	5,788	6,253	6,081	6,266	6,301	6,736	6,569	6,367	5,854	5,614	6,043
WYOMING-----	10,104	799	785	828	888	885	856	937	883	887	797	740	819

1981 Addendum to "Technical Appendix" of Vital Statistics of the United States, 1980 - Volume I, Natality

SOURCES OF DATA

The sources of natality data in 1981 are the same as in 1980.

CLASSIFICATION OF DATA

Period of gestation

Prior to 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 ascertained on a substantial number of live birth certificates each year because day of LMP alone was missing. Beginning in 1981 weeks of gestation are imputed for records with missing day of LMP when there is a valid month and year. Each such record is assigned the gestational period in weeks of the preceding record with a complete LMP date having the same computed months of gestation and the same 500-gram birth weight interval. The effect of the imputation procedure is to increase slightly the proportion of premature births and to lower the proportion of births at 39, 40, 41, and 42 weeks of gestation. For a more complete discussion of this imputation procedure and its implications, see National Center for Health Statistics, "A Method of Imputing Length of Gestation on Birth Certificates," by S. Taffel, D. Johnson, and R. Heuser, Vital and Health Statistics, Series 2 - No. 93, DHHS Pub. No. (PHS) 82-1367, Public Health Service, Wash., U. S. Government Printing Office, Aug. 1981.

Hispanic parentage

Concurrent with the 1978 revision of the U.S. Standard Certificate of Live Birth, the NCHS recommended that States add items to identify the Hispanic or ethnic origin of the newborn's parents. Two formats were used: 1) an open-ended item to obtain the specific origin or descent of each parent, for example, Italian, Mexican, or English; and 2) an item directed toward the Hispanic population, requesting only the specific Hispanic origin (Mexican, Puerto Rican, Cuban, etc.). In 1981, items requesting Hispanic or ethnic origin were included on the birth certificates of 22 States (see table A). For a detailed analysis of births of Hispanic Parentage, see National Center for Health Statistics "Births of Hispanic Parentage, 1980," by S. J. Ventura, Monthly Vital Statistics Report, Vol. 32, No. 6, Supplement, DHHS Publication No. (PHS) 83-1120, Sept. 23, 1983.

Sampling of birth records

In 1981 the total file of birth records was used for 44 States (see Sources of data) which accounted for 83 percent of all births in the country. The total file of records was also used for Puerto Rico, the Virgin Islands, and Guam.

Reliability of Estimates

There is no sampling error in the total number of births occurring in a State, whether the total file or a 50-percent sample is used. Characteristics such as race and month of birth when shown by place of occurrence are subject to

sampling error only for the sampled States. All data by place of residence, for all States, are subject to sampling error.

The approximate standard errors for 1981 are presented in table B for selected birth totals and numbers of births with a specified characteristic in areas with a 50-percent sample. Linear interpolation may be used to obtain the standard errors for other estimated numbers of births. For States with all records tabulated, the standard errors for specific characteristics are approximated by multiplying the errors shown in table B by the appropriate factors from Table C.

To determine the standard error of an estimated number of births, both the total number of births in the area and the estimated number of births with a specified characteristic must be known. For estimated births with a specified characteristic by place of occurrence, the appropriate "Total births in the area" in table B is the number occurring in the area, e.g., city, county, or State. For the estimated total number of births and the number of births with a specified characteristic by place of residence, the number of births to residents of the State is used as the total births in the area.

For example, consider an estimate of 25,000 births to women 20-25 years of age residing in a State which has an estimated total of 60,000 births to residents and for which all birth records are used in the data base. Table B shows that the standard errors for an estimate of 25,000 births is 111.8 and 154.1 for areas having 50,000 and 500,000 total births, respectively. Linear interpolation yields a value of 112.7 for the approximate standard error for

an area having 60,000 total births when the estimate is based on a 50-percent sample. According to table C, the multiplier for resident births for States where records are not sampled is 0.41. Hence, the standard error for the estimate of 25,000 births to women 20-25 years of age residing in the State is approximately $46.2 = (112.7) (0.41)$.

For estimated numbers of births with specific characteristics by place of occurrence or residence, the standard errors derived from table B are accurate for those areas where 50-percent samples are used, but the errors are likely to be overstatements for areas which include, but are not restricted to, areas using a 50-percent sample for example, certain SMSA's. For estimated numbers of births by place of residence (both totals and by specific characteristics), the standard errors derived using tables B and C are overstatements for most non-sampled areas. The amount of overstatement in the error estimates is likely to be greater for areas which are not adjacent to States where 50-percent samples are used.

The approximate relative standard error for rates is equivalent to the relative standard error of the numerator obtained using tables B and C. This is because the denominators are estimates which are considered to be without sampling errors (for example for the U.S., the populations of age-race-sex groups, States, SMSA's, or by month).

The standard error for estimates of the difference between two estimates X_1 and X_2 may be calculated using

$$SE(d) = SE^2(X_1) + SE^2(X_2)$$

This formula represents the standard error quite accurately for the difference between separate and uncorrelated characteristics. When the characteristics are correlated, however, this formula overstates the standard error.

The standard error for an estimate of the ratio $R = X/Y$ may be approximated if the sample sizes are large enough for the ratio's variance to be valid. As a working rule, the variance formula may be used if Y exceeds 60 and is also large enough so that the relative standard errors (RSE's) for both X and Y are less than 0.10 or if $RSE(Y)$ is less than 0.05. The RSE of an estimate (X or Y) is approximated by dividing the standard error by the estimate itself. In the following it is assumed that Y exceeds 60 and at least one of the two conditions of the RSE's is satisfied.

The standard error for percent estimates where X is a subclass of the denominator Y may be calculated using:

$$SE(R) = R \sqrt{RSE^2(X) - RSE^2(Y)} .$$

The standard error for estimates of means and other ratios where the numerator X is not a subclass of the denominator Y may be calculated using

$$SE(R) = R \sqrt{RSE^2(X) + RSE^2(Y)} .$$

COMPUTATION OF RATES AND OTHER MEASURES

Population bases

Population estimates for 1981.--The population of the United States by age, race, and sex is published in Current Population Reports, Series P-25, Number 929, by State in Number 930, and by month in Number 931.

SECTION 4 - TECHNICAL APPENDIX

Table A. Areas reporting educational attainment of parents, dates of last live birth and fetal death, date last normal menstrual period began (LMP), number of prenatal visits, marital status of mother, and 1- and 5-minute Apgar scores. Each State, 1980

Area	Educational attainment of parents	Dates of last live birth and fetal death	Date last normal menstrual period began (LMP)	Number of prenatal visits	Marital status of mother	1-minute Apgar score	5-minute Apgar score	Ethnic origin	Hispanic origin
Alabama	X	X	X	X	X	X	X		
Alaska	X	X	X	X	X	X	X		
Arizona	X	X	X	X	X	X	X		X
Arkansas	X	X	X	X	X	X	X		X
California		X	X					X	
Colorado	X	X	X	X	X	X	X	X	
Connecticut	X	X	X	X		X	X		
Delaware	X	X	X	X	X				
District of Columbia	X	X	X	X	X		X		
Florida	X	X	X	X	X	X	X	X	
Georgia	X	X	X	X	X	X	X	X	
Hawaii	X	X	X	X	X	X	X		X
Idaho	X	X	X	X	X	X	X		
Illinois	X	X	X	X	X	X	X	X	
Indiana	X	X	X	X	X	X	X		X
Iowa	X	X	X	X	X	X	X		
Kansas	X	X	X	X	X	X	X	X	
Kentucky	X	X	X	X	X	X	X		
Louisiana	X	X	X	X	X	X	X		
Maine	X	X	X	X	X	X	X	X	
Maryland	X	X	X	X		X	X		
Massachusetts	X	X	X	X	X	X	X		
Michigan	X	X	X	X		X	X		
Minnesota	X	X	X	X	X	X	X		
Mississippi	X	X	X	X	X	X	X	X	
Missouri	X	X	X	X	X	X	X		
Montana	X	X	X	X		X	X		
Nebraska	X	X	X	X	X	X	X	X	
Nevada	X	X	X	X		X	X	X	
New Hampshire	X	X	X	X	X	X	X		
New Jersey	X	X	X	X	X	X	X	X	
New Mexico	X	X			X	X	X		X
New York	X	X	X	X		X	X	X	X
North Carolina	X	X	X	X	X	X	X		
North Dakota	X	X	X	X	X	X	X	X	
Ohio	X	X	X	X		X	X	X	
Oklahoma	X	X	X	X	X				
Oregon	X	X	X	X	X	X	X		
Pennsylvania	X	X	X	X	X	X	X		
Rhode Island	X	X	X	X	X	X	X		
South Carolina	X	X	X	X	X	X	X		
South Dakota	X	X	X	X	X	X	X		
Tennessee	X	X	X	X	X	X	X		
Texas			X	X					X
Utah	X	X	X	X	X	X	X		X
Vermont	X	X	X	X	X	X	X		
Virginia	X	X	X	X	X	X	X		
Washington		X	X	X	X	X	X		
West Virginia	X	X	X	X	X	X	X		
Wisconsin	X	X	X	X	X	X	X		
Wyoming	X	X	X	X	X	X	X	X	

1) New York City only
 2) Excluding New York City

Table B. Standard errors of estimated births for specified size of estimate and total births in the area when estimates are based on a 50 percent sample.

(Births in Arizona, California, Delaware, District of Columbia, Georgia, New Mexico and North Dakota are based on a 50-percent sample)

Number of births with a specified characteristic (X) ¹	Total births in area (B)									
	250	500	1,000	2,000	5,000	10,000	20,000	50,000	500,000	3,600,000
10	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
20	4.3	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5
30	5.2	5.3	5.4	5.4	5.5	5.5	5.5	5.5	5.5	5.5
50	6.4	6.7	6.9	7.0	7.0	7.1	7.1	7.1	7.1	7.1
125	7.9	9.7	10.5	10.8	11.0	11.1	11.1	11.2	11.2	11.2
250	0.0	11.2	13.7	14.8	15.4	15.6	15.7	15.8	15.8	15.8
500	-	0.0	15.8	19.4	21.2	21.8	22.1	22.2	22.3	22.4
1,000	-	-	0.0	22.4	28.3	30.0	30.8	31.3	31.6	31.6
2,500	-	-	-	0.0	35.4	43.3	46.8	48.7	49.9	50.0
5,000	-	-	-	-	0.0	50.0	61.2	67.1	70.4	70.7
10,000	-	-	-	-	-	0.0	70.7	89.4	99.0	99.9
25,000	-	-	-	-	-	-	0.0	111.8	154.1	157.6
50,000	-	-	-	-	-	-	-	0.0	212.1	222.0
100,000	-	-	-	-	-	-	-	-	282.8	311.8
250,000	-	-	-	-	-	-	-	-	353.6	482.3
500,000	-	-	-	-	-	-	-	-	0.0	656.2
1,000,000	-	-	-	-	-	-	-	-	-	849.8
2,000,000	-	-	-	-	-	-	-	-	-	942.8
3,000,000	-	-	-	-	-	-	-	-	-	707.1

¹ Standard errors for B minus X are the same as those shown for X.

Table C. Multipliers for Approximating Maximum Standard Errors for the United States, Selected Geographic Divisions, and Non-sampled States

Area	Estimate is by Place of	
	Occurrence	Residence
		Factor
United States	0.41	0.41
Geographic Division		
West North Central	0.21	0.44
South Atlantic	0.48	0.50
Mountain	0.58	0.73
Pacific	0.86	0.91
All Other Geographic Divisions	0.0	0.45
Non-sampled States ¹	0.0	0.41

¹ All States except Arizona, California, Delaware, Georgia, New Mexico, North Dakota, and the District of Columbia

SECTION 4—TECHNICAL APPENDIX

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 embraced by the definition set forth by the World Health Organization¹ as follows:

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

This definition distinguishes in precise terms a live birth from a fetal death (see section on fetal deaths in the Technical Appendix of volume II of this report). In the interest of comparable natality statistics, both the Statistical Commission of the United Nations and the National Center for Health Statistics have adopted this definition.^{2,3}

HISTORY OF BIRTH-REGISTRATION AREA

The national birth-registration area was proposed in 1850, established in 1915, and completed in 1933. The organized territories of Hawaii and Alaska were admitted in 1929 and 1950, respectively; data from these areas were prepared separately until they became States—Alaska in 1959 and Hawaii in 1960. At present the birth-registration system of the United States covers the 50 States, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and Guam. However, in the statistical tabulations, *United States* refers only to the aggregate of the 50 States and the District of Columbia. Tabulations for Puerto Rico, the Virgin Islands, and Guam are shown separately in section 3 of this volume.

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

Because of the growth of the area for which data have been collected and tabulated, a national series of geographically comparable data prior to 1933 can be obtained only by estimation. Annual estimates of births have been prepared by P. K. Whelpton for the period 1909-34 (table 1-1). These estimates include adjustments for under-registration as well as for States not in the birth-registration area before 1933.

SOURCES OF DATA

Natality statistics

Natality statistics for 1980 are based on information from two sources. Statistics for 44 States are based on the total file of records received on computer data tapes coded by the States and provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program. Statistics for the remaining States (Arizona, California, Delaware, Georgia, New Mexico, and North Dakota) and the District of Columbia are based on information obtained from a 50-percent sample of microfilm copies of all live birth certificates filed in these States. The Center receives these tapes and microfilm copies from the registration offices of each State, the District of Columbia, and New York City.

Records from the Virgin Islands are received in the form of microfilm copies of birth certificates; those from Guam are received as photocopies of original birth certificates; and those from Puerto Rico are received as computer tapes through the Vital Statistics Cooperative Program. Natality data for 1980 for these areas are based on the total file of records. Before 1977 Puerto Rican records were sampled on a 50-percent basis. Information for previous years for these three areas is published in the annual vital statistics reports of the Department of Health of the Commonwealth of Puerto Rico, the Department of Health of the Virgin Islands, the Department of Public Health and Social Services of the Government of Guam, and in selected *Vital Statistics of the United States* annual reports.

When the microfilmed data are received from the various registration offices, the information on the sampled microfilm records is coded onto magnetic tape for input into the computer, which then edits all the taped records and produces tabulations of natality statistics adjusted for sampling factors.

SECTION 4 — TECHNICAL APPENDIX

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 are excluded from all tabulations by place of residence beginning in 1970. (See section on Classification by occurrence and residence for further discussion.) Births occurring to U.S. citizens outside the United States are not included in any tabulations in this report. Similarly the data for Puerto Rico, the Virgin Islands, and Guam are limited to births registered in these areas.

special provisions of the State's vital statistics law. However, most State certificates conform closely in content to the standard certificate.

The first standard certificate of birth appeared shortly before the formation of the registration area in 1915. Since then it has been revised periodically by the national vital statistics agency through consultation with State health officers and registrars; Federal agencies concerned with vital statistics; national, State, and county medical societies; and others working in the fields of public health, social welfare, demography, and insurance. This revisory procedure has assured careful evaluation of each item for its current and future usefulness for registration, identification, and legal, medical, and research purposes. New items have been added when necessary, and old items modified to ensure better reporting or, in some cases, dropped when their usefulness appeared to be limited.

Standard Certificate of Live Birth

The Standard Certificate of Live Birth, issued by the Public Health Service, has served for many years as the principal means of attaining uniformity in the content of the documents used to collect information on births in the United States. It has been modified in each State to the extent required by the particular State's needs or by

1978 revision.—Effective January 1, 1978, a revised Standard Certificate of Live Birth (figure 4-A) replaced the 1968 revision. Changes on the 1978 standard certifi-

FIGURE 4-A.

Form Approved
OMB No. 68R 1900

U.S. STANDARD
CERTIFICATE OF LIVE BIRTH

LOCAL FILE NUMBER BIRTH NUMBER

CHILD	1 CHILD-NAME FIRST MIDDLE LAST		2 SEX	3a DATE OF BIRTH—Mo. Day Year		3b HOUR
	4a CAPITAL-NAME (If not in hospital and street and number)			4b CITY TOWN OR LOCATION OF BIRTH		4c COUNTY OF BIRTH
FATHER	5 I certify that the above information appearing on this certificate is correct to the best of my knowledge and belief					
	5a CERTIFIER-SIGNATURE			5b DATE SIGNED—Mo. Day Year	5c NAME AND TITLE OF ATTENDANT AT BIRTH (If other than Certifier—Type or print)	
6a CERTIFIER-NAME AND TITLE (Type or print)			6b MAILING ADDRESS (If other than P.O. Box City or Town State Zip)			
MOTHER	7a REGISTRAR					
	7b CERTIFIER-SIGNATURE			7c DATE RECEIVED BY REGISTRAR—Mo. Day Year		
	8a MOTHER MAIDEN NAME FIRST MIDDLE LAST			8b AGE at time of this birth	8c STATE OF BIRTH (If not a U.S. citizen, give full name of country)	
	9a RESIDENCE-STATE	9b COUNTY	9c CITY TOWN OR LOCATION	9d STREET AND NUMBER OF RESIDENCE		9e INSIDE CITY LIMITS (Type or print)
9f MOTHER'S MAILING ADDRESS—(If other than above enter 2nd Code only)						
FATHER	10a FATHER-NAME FIRST MIDDLE LAST			10b AGE at time of this birth	10c STATE OF BIRTH (If not a U.S. citizen, give full name of country)	
	10d I certify that the above information appearing on this certificate is correct to the best of my knowledge and belief (Signature of Father)			10e RELATION TO CHILD		
10f CERTIFIER-SIGNATURE			10g			

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

11a RACE (Mother—Type or print)		11b RACE (Father—Type or print)		11c BIRTH WEIGHT		11d THIS BIRTH—Single or twins (Specify)		11e IF NOT SINGLE BIRTH—Born first second third etc. (Specify)		11f MOTHER MARRIED (Specify date)	
12a PREPREGNANCY HISTORY (Complete each section)				12b EDUCATION—MOTHER (Specify only highest grade completed)				12c EDUCATION—FATHER (Specify only highest grade completed)			
12a-1 LIVE BIRTHS (Do not include this child)		12a-2 OTHER TERMINATIONS (Abortion and stillborn)		12b-1 Elementary or Secondary (Specify)		12b-2 College (Specify)		12c-1 Elementary or Secondary (Specify)		12c-2 College (Specify)	
12a-1-1 17a Most recent	12a-1-2 17b Most recent	12a-2-1 17c Before 20 months	12a-2-2 17d After 20 months	12b-1 18 DATE LAST NORMAL MENSTRUATION BEGAN (Mo. Day Year)		12b-2 19 MONTH OF PREGNANCY PRE-NATAL CARE BEGAN (Mo. Day Year)		12c-1 20 PRENATAL VISITS (Type or print)		12c-2 21 APGAR SCORE (Type or print)	
12a-1-3 17e Multiple Births (Type or print)		12a-1-4 17f Date of Last Live Birth (Mo. Day Year)		12a-2-3 17g Date of Last Other Termination (Mo. Day Year)		12b-1 22 COMPLICATIONS OF PREGNANCY (Specify or type or print)		12c-1 23 CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY (Specify or type or print)			
12a-1-5 17h Complications of Labor and/or Delivery (Specify or type or print)						12c-1 24 CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (Specify or type or print)					

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE PUBLIC HEALTH SERVICE NATIONAL CENTER FOR HUMAN SERVICES
 12853 REVISION

DEATH UNDER ONE YEAR OF AGE (Enter State and number of cases reported for each year)
 MULTIPLE BIRTHS (Enter State and number for each)
 LIVE BIRTHS:
 FETAL DEATHS:

HRA-161
 Rev. 1/78

cate include a new item on 1- and 5-minute Apgar scores, the deletion of the item on birth injuries, and revisions of the items on legitimacy status and previous pregnancies.

The item on legitimacy status has been changed to read "Is Mother Married?" This is now a factual piece of information about the mother rather than an attribute ascribed to the child, and the person completing the record does not have the responsibility for making what may be a legal determination.

The item on previous deliveries has been changed to pregnancy history and expanded to include two categories of fetal loss, before and after 20 completed weeks of gestation. This change provides information on two groups which are of interest in medical research and emphasizes the fact that all previous fetal losses should be included, both spontaneous and induced, regardless of length of gestation. For further discussion see individual headings for each item.

CLASSIFICATION OF DATA

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

The general rules used to classify geographic and personal items for live births are set forth in "Vital Statistics Classification and Coding Instructions for Live Birth Records, 1980," *NCHS Instruction Manual*, Part 3a. The classification of certain important items is discussed on the following pages.

Classification by occurrence and residence

All but three tabulations for States and other areas within the United States are by place of mother's residence. These three tabulations (1-49, 1-50, and 2-1) show births by place of occurrence. Births to U.S. residents occurring outside this country are not reallocated to the United States. In tabulations by place of residence, births occurring within the United States to U.S. citizens and to resident aliens are allocated to the usual place of residence of the mother in the United States as reported on the birth certificate. Beginning in 1970, births to nonresidents of the United States occurring in the United States are excluded from these tabulations. From 1966 to 1969, births occurring in the United States to mothers who were nonresidents of the United States were considered as

births to residents of the exact place of occurrence; in 1964 and 1965 all such births were allocated to "balance of county" of occurrence even if the birth had occurred in a city.

The change in coding beginning in 1970 to exclude births to nonresidents of the United States from residence data significantly affects the comparability of data with years prior to 1970 only for Texas; in 1980, 74.7 percent of the 5,723 births to nonresidents of the United States occurred in this State. In 1980, births to residents of Mexico constituted 90.9 percent of all nonresident births in the United States. No evaluation of the effect of the change in procedure between 1965 and 1966 has been made.

For the total United States the tabulations by place of residence and by place of occurrence are not identical. Births to nonresidents of the United States are included in data by place of occurrence but excluded from data by place of residence, as previously indicated.

In volumes for 1969-77 individual State totals varied from table to table for those tables showing items not reported by all States. These differences occurred when a resident of a State reporting a certain item had a birth in a nonreporting State. The birth was not included in tables showing data for that item for the State of residence. However, beginning with 1978, births to residents of a reporting State are included in the table regardless of whether they occurred in a reporting or a nonreporting State. As a result, the total number of births by residence for a State is the same in all tables. In addition, there is a slight increase in the "Not stated" category due to the inclusion of births to residents of reporting States that occurred in nonreporting States.

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

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

Geographic classification

The rules followed in the classification of geographic areas for live births are contained in the instruction manual

mentioned previously. The geographic code structure for 1980 is given in another manual entitled "Geographic Codes" (revised January 1970).

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.

Standard metropolitan statistical areas.—The standard metropolitan statistical areas (SMSA's) used in this report are those established by the U.S. Office of Management and Budget using final 1980 census population counts⁴ and used by the U.S. Bureau of the Census except in the New England States.

Except in the New England States an SMSA is a county or a group of contiguous counties containing a city of 50,000 inhabitants or more or an urbanized area of 50,000 with a total metropolitan population of at least 100,000. In addition to the county or counties containing such a city or cities, contiguous counties are included in an SMSA if, according to specified criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city or cities.⁵

In the New England States the Office of Management and Budget uses towns and cities rather than counties as geographic components of SMSA's. The National Center for Health Statistics cannot, however, use the SMSA classification for these States because its data are not coded to identify all towns. Instead, the New England County Metropolitan Areas (NECMA's) are used. These areas are established by the Office of Management and Budget and are made up of county units.⁶

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

Population-size groups.—Beginning in 1970 vital statistics data for cities and certain other urban places are classified according to the population enumerated in the 1970 Census of Population. Classification of such areas into population-size groups for 1960-69 was determined by the population enumerated in the 1960 Census of Population. Beginning in 1964, cities and other urban places of 2,500 to 10,000 population have not been separately identified but are included with the areas formerly classified as rural. Data continue to be available for the individual cities and other urban places of 10,000 or more population. As a result of changes in population between 1960 and 1970, some urban places identified in previous reports are no longer included, while a number of other places have been added. Data for the remaining areas not separately identified are shown in the tables under the heading "balance of area" or "balance of county."

Urban places other than incorporated cities for which vital statistics data are shown in this report include:

1. Each town in New England and each township in New Jersey and Pennsylvania that had no incorporated municipality as a subdivision and had either

25,000 inhabitants or more, or a population of 10,000 to 25,000 and a density of 1,500 persons or more per square mile.

2. Each county in States other than the New England States, New Jersey, and Pennsylvania that had no incorporated municipality within its boundary and had a density of 1,500 persons or more per square mile. (Arlington County, Virginia, is the only county classified as urban under this rule.)

Race or national origin and color

The race or national origin shown in a tabulation is that of the newborn child. Classification of the child's race or national origin for statistical purposes is based on the race or national origin of the parents. The categories are "White," "Black," "American Indian," "Chinese," "Japanese," "Hawaiian," "Filipino," "Other Asian or Pacific Islander," and "Other." Before 1978 the category "Other Asian or Pacific Islander" was not identified separately but included with "Other" races. The separation of this category allows identification of the category "Asian or Pacific Islander" by combining the new category "Other Asian or Pacific Islander" with Chinese, Japanese, Hawaiian, and Filipino.

If the parents are of different races or national origins, the following rules apply when assigning race or national origin to the newborn child: (1) When only one parent is white, the child is assigned the other parent's race or national origin. (2) When neither parent is white, the child is assigned the father's race or national origin with one exception; if the mother is Hawaiian or part-Hawaiian, the child is assigned to Hawaiian. If race is missing for one parent, the child is assigned the race of the parent for whom race is given. When information on race is missing for both parents, the race of the child is considered not stated and the birth is allocated according to rules discussed in the section "Race or national origin not stated."

The terms "race," and "specified race or national origin" indicate the detail of classification of this variable. For 11 tabulations for which information is not available separately for the black population, the racial categories shown are "White" and "All other." All other tabulations by "race" show data separately for the black population. Tabulations by "specified race or national origin" are the most detailed, showing all categories of the classification. In most tables the less detailed classification of "race" is used.

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

All other.—The category "All other" comprises black, American Indian, Chinese, Japanese, Hawaiian and part-Hawaiian, Filipino, other Asian or Pacific Islander includ-

ing Asian Indian, and "Other." Before 1978 Asian Indian was included in the white category. Beginning in 1964, Aleuts and Eskimos are included in "American Indian," significantly increasing the births in this category when comparisons are made with previous years. Alaska is particularly affected in this regard. Before 1964, Aleuts and Eskimos were assigned to the "Other" category.

For all years except 1964 if the race or national origin of a parent was ill-defined or not clearly identifiable with one of the categories used in the classification, e.g., if "Oriental" was entered, an attempt was made to determine the specific race by examining the entry for place of birth. For this example, if the birthplace was not China, Japan, or the Philippines, the parent's race was assigned to the category "Other." Beginning in 1978 the race was assigned to the category "Other Asian or Pacific Islander." In 1964 no place of birth inquiries were made and such cases were assigned to "Race or national origin not stated." As a result, the numbers of births classified as Chinese, Japanese, and "Other" in 1964 were smaller than they would have been under the procedure used in other years.

Race or national origin not stated.—The race of a child is considered not stated in those cases in which information for both parents is missing. Before 1964 all such cases were tabulated as white. From 1964 through 1968 the race of the child was allocated by the computer as follows: If the race on the preceding record was white, the assignment was to white; otherwise the assignment was to black. Beginning in 1969 the race of the child had been allocated electronically according to the specific race of the child on the preceding record. Consequently, some of the not stated frequencies which had previously been assigned to the black category may now be assigned to one of the other race or national origin categories.

Nearly all statistics by race or national origin for the United States as a whole in 1962 and 1963 are affected by a lack of information for New Jersey. Birth rates by race for those years are computed on a population base which excludes New Jersey. (For the method of estimating the United States population by age, sex, and race excluding New Jersey in 1962 and 1963, see *Vital Statistics of the United States, 1963, Volume I, page 4-8.*) Estimates of births to unmarried mothers by race for the United States, which include special estimates for New Jersey for 1962 and 1963, have been prepared and are shown in table 1-31.

Completeness of registration by race.—The quality of birth data by race is variable in that birth registration is higher for the white group than for the all other group. In 1980 birth-registration completeness was estimated to be 99.4 percent for white births and 98.6 percent for all other births. The most recent figures for specified racial or national origin groups are from the 1950 birth-registration completeness test. In that year the registration completeness for black births was estimated to be 93.7 percent, for American Indians, 85.1 percent; and for others, including Chinese and Japanese, 97.4 percent. These figures are probably higher for 1980, but more precise estimates are unavailable.

Age of mother

The birth certificate asks for "Age (at time of this birth)." The age of mother is edited for upper and lower limits. When mothers are reported to be below 10 years of age or age 50 and over, the age of the mother is considered not stated and is assigned as described below.

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

The 1980 Census of Population derived age in completed years as of April 1, 1980, from the responses to questions on age at last birthday and month and year of birth, with the latter given preference. In the 1960 and 1970 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 birth certificate question, which the 1950 matched test of birth and census records confirms by showing a high degree of consistency in the reporting of age in these two sources.⁷

Median age of mother.—Median age is the value which 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 using 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.

Not stated age of mother.—Beginning in 1964 birth records with age of mother not stated have been allocated according to the age appearing on the record previously processed for a mother of identical race and having the same total-birth order (total of fetal deaths and live births). In 1963 birth records with age not stated were allocated according to the age appearing on the record previously processed for a mother of identical race and parity (number of live births). For 1960-62 not stated and unknown ages were distributed in proportion to the known ages for each racial group. Before 1960 this was done for age-specific birth rates but not for the birth frequency tables, which showed a separate category for age not stated.

Age of father

Age of father is 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 usually missing on birth certificates of children born to unwed mothers,

greatly inflating the number of "not stated" in all tabulations by age of father. In computing birth rates by age of father, births tabulated as age of father not stated are distributed in the same proportions as births with known age within each 5-year age classification of the mother. This procedure is done separately by race. The resulting distributions are summed to form a composite frequency distribution which is the basis for computing birth rates by age of father. This procedure avoids the distortion in rates which would result if the relationship between age of mother and age of father were disregarded.

Live-birth order and parity

Birth order and parity classifications shown in this volume refer to the total number of live births the mother has had, including the 1980 birth. Fetal deaths are excluded.

Birth order indicates what number the present birth represents, e.g., a baby born to a mother who has had two previous live births (even if one or both are not now living) has a 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.

Birth order and parity are ascertained from two items on the birth certificate, "Live births—now living" and "Live births—now dead."

Not stated birth order.—Before 1969 if both of these items were blank, the birth was considered a first birth. Beginning in 1969, births for which the pregnancy history items were not completed have been tabulated as birth order not stated. As a result of this revised procedure, 22,582 births in 1980 which would have been assigned to the "First birth order" category under the old rules were assigned to the "Not stated" category.

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

Dates of last live birth and last fetal death

Date of last live birth and date of last fetal death were added to the Standard Certificate of Live Birth in 1968 for the purpose of providing information on child spacing and pregnancy intervals. Tabulations on these items were presented for the first time in 1969. In 1978 the wording of the item "date of last fetal death" was changed to "date of last other termination" to ensure inclusion of both spontaneous and induced fetal deaths. This information was obtained from 48 States and the District of Columbia in 1980 as indicated in table A.

Interval since last live birth and last other termination.—Data on intervals since last live birth and last other termination are computed from the date of birth, date of last live birth, and date of last other termination. The interval since last live birth is the difference between the date of last live birth and the date of present birth; the interval since last other termination is the difference between the date of last other termination and the date of present birth. For an interval to be computed, it is necessary for both the month and year of the last live birth or the last other termination to be valid. These intervals are computed only for events to mothers who have had at least one previous delivery.

Births for which the interval since last live birth or last other termination is not stated are excluded from the computation of percents and means.

Interval since last pregnancy and outcome of last pregnancy.—Data on interval since last pregnancy and outcome of last pregnancy are derived from the computed intervals since the last live birth and the last other termination. An analytic review of recent trends in the interval between births has been published.⁶

Births for which the interval since last pregnancy is not stated are excluded from the computation of percents and means.

Zero interval.—An interval of zero months since last live birth or fetal death indicates the second born of a set of twins, the second or third born of a set of triplets, etc. Births with an interval of zero months are excluded from the computation of mean intervals.

Educational attainment

The educational attainment of both parents was collected beginning in 1968 and was tabulated for publication in 1969 for the first time. In 1980, data on education were obtained from 47 States and the District of Columbia, as indicated in table A.

The educational attainment of either parent is defined as "the number of years of school completed." Only those years completed in "regular" school, i.e., a formal educational system of public schools, or the equivalent in accredited private or parochial schools are counted. 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, etc., to equivalent grades in the American school system. Such entries have been included in the category "Not stated."

Persons 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 was stated, years of school completed is coded to the level at which the degree is most commonly attained, e.g., persons reporting B.A., A.B., or B.S. degrees are considered to have completed 16 years of school.

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4-9

Table A. Areas reporting educational attainment of parents, dates of last live birth and fetal death, date last normal menstrual period began (LMP), number of prenatal visits, marital status of mother, and 1- and 5-minute Apgar scores: Each State, 1980

Area	Educational attainment of parents	Dates of last live birth and fetal death	Date last normal menstrual period began (LMP)	Number of prenatal visits	Marital status of mother	1-minute Apgar score	5-minute Apgar score
Alabama	X	X	X	X	X	X	X
Alaska	X	X	X	X	X	X	X
Arizona	X	X	X	X	X	X	X
Arkansas	X	X	X	X	X	X	X
California		X	X				
Colorado	X	X	X	X	X	X	X
Connecticut	X	X		X		X	
Delaware	X	X	X	X	X		
District of Columbia	X	X	X	X	X		X
Florida	X	X	X	X	X	X	X
Georgia	X	X	X	X	X	X	X
Hawaii	X	X	X	X	X	X	X
Idaho	X	X	X	X	X	X	X
Illinois	X	X	X	X	X	X	X
Indiana	X	X	X	X	X	X	X
Iowa	X	X	X	X	X	X	X
Kansas	X	X	X	X	X	X	X
Kentucky	X	X	X	X	X	X	X
Louisiana	X		X	X	X		
Maine	X	X	X	X	X	X	X
Maryland	X	X	X	X		X	X
Massachusetts	X	X	X	X	X	X	X
Michigan	X	X	X	X		X	X
Minnesota	X	X	X	X	X		
Mississippi	X	X	X	X	X	X	X
Missouri	X	X	X	X	X	X	X
Montana	X	X	X	X		X	X
Nebraska	X	X	X	X	X	X	X
Nevada	X	X	X	X		X	X
New Hampshire	X	X	X	X	X	X	X
New Jersey	X	X	X	X	X	X	X
New Mexico	X	X			X	X	X
New York	X	X	X	X		X	X
North Carolina	X	X	X	X	X	X	X
North Dakota	X	X	X	X	X	X	X
Ohio	X	X	X	X		X	X
Oklahoma	X	X	X	X	X		
Oregon	X	X	X	X	X	X	X
Pennsylvania	X	X	X	X	X	X	X
Rhode Island	X	X	X	X	X	X	X
South Carolina	X	X	X	X	X	X	X
South Dakota	X	X	X	X	X	X	X
Tennessee	X	X	X	X	X	X	X
Texas			X	X			
Utah	X	X	X	X	X	X	X
Vermont	X	X	X	X	X	X	X
Virginia	X	X	X	X	X	X	X
Washington		X	X	X	X	X	X
West Virginia	X	X	X	X	X	X	X
Wisconsin	X	X	X	X	X	X	X
Wyoming	X	X	X	X	X	X	X

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

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

Marital status

Beginning with 1980 data, national estimates of births to unmarried women are derived from two sources. For 41 States and the District of Columbia, marital status of the mother is reported directly on the birth certificate (see table A); for the remaining 9 States which lack this item, marital status is inferred from a comparison of the child's and parents' surnames. This procedure represents a substantial departure from the previous method used to prepare national estimates, which assumed that the incidence of births to unmarried women in States with no direct question on marital status was the same as the incidence in reporting States in the same geographic division. Ratios of births to unmarried women were computed by race for the reporting States in each geographic division, applied to all births in the division, and then summed to obtain national estimates by race. The figures by race were summed to yield the totals for the United States.

The new method attempts to use related information on the birth certificate to improve the quality of national data on this topic as well as to provide data for the individual nonreporting States. Beginning in 1980, a birth in a nonreporting State is classified as occurring to a married woman if the parents' surnames are the same or if the child's and father's surnames are the same and the mother's current surname cannot be obtained from the informant item of the birth certificate. A birth is classified as occurring to an unmarried woman if the father's name is missing, if the parents' surnames are different, or if the father's and child's surnames are different and the mother's current surname is missing.

No adjustments are made during the data processing for errors in the reporting of marital status on the birth records of the 41 reporting States and the District of Columbia because the extent of this reporting problem is unknown. When marital status is not stated on the birth certificate of a reporting area, the mother is considered to be married.

When out-of-wedlock births are reported as second or higher order births, it is not known whether the mother's previous deliveries occurred out of wedlock since her marital status at the time of these earlier births is not available from the birth record. More detailed data on births to unmarried women are given in a previous report.⁹

A complete tabulation of the number of births to unmarried women for 1979 and 1980 by age of mother and race is shown in table B. Two sets of figures are given for 1980, those derived from the new method utilizing

reported and inferred data and those derived from the previous geographic ratio estimation procedure. It is evident that the methodological change had significantly greater impact on the figures for white births to mothers aged 20 years and older than on the figures for other racial or age groups. In tables 1-32 and 1-33, two sets of birth rates by age of mother and race for unmarried and married women are shown for 1980, those derived from the new method as described and those derived from the geographic estimation procedure. Nearly half of the increase in rates for unmarried women between 1979 and 1980 can be attributed to the change in method of deriving the number of births to unmarried women.

Rates for 1940 and 1950 are based on decennial census counts. In this report, rates for 1955-80 are based on a smoothed series of population estimates.⁹ Since the original Bureau of the Census population estimates fluctuate erratically from year to year because of sampling error, they have been smoothed so that the rates do not show similar variations. The rates shown in this report differ from those published in issues of *Vital Statistics of the United States* before 1969, which were based on the original estimates provided annually by the Bureau of the Census. Birth rates by marital status for 1971-79 have been revised and, therefore, differ from rates published in previous years (see Computation of Rates and Other Measures).

Attendant at birth

The tabulations of births by attendant at birth combine information about place of delivery and the person in attendance at birth. Births occurring in hospitals, institutions, clinics, centers, or homes are included in the category "In hospital." In this context the word "homes" does not refer to the mother's residence but to an institution such as a home for unwed mothers. 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. Table 1-37 of this report presents this more detailed information for the years 1975-80, although other tabulations on attendant combine information for these two items.

Data shown in this volume for the "In hospital" category for the years 1975-80 include all births in clinics, centers, or homes, regardless of attendant. Previously published data for 1975-77 included clinic, center, or "home" births in the category "In hospital" only when the attendant was a physician. Data shown for 1975-77 in table 1-37 therefore differ from previously published data. As a result of this change, in 1975 an additional 12,352 births are classified as occurring in hospitals, raising the percent of births occurring in hospitals from 98.7 to 99.1. Similarly, for 1976 the number of births occurring in hospitals is increased by 14,133 and the percent in hospitals raised from 98.6 to 99.1, for 1977, the increase is 15,937 and the

Table B. Number of births to unmarried women, by age of mother and race of child: United States, 1979 and 1980

[Due to rounding estimates to the nearest hundred, estimated figures by race may not add to totals. Figures for age of mother not stated are distributed.
Excludes births to nonresidents of the United States]

Years and race	All ages	Age of mother											
		Under 15 years	15-19 years					20-24 years	25-29 years	30-34 years	35-39 years	40 years and over	
			Total	15 years	16 years	17 years	18 years						19 years
ALL RACES													
Reported/Inferred¹													
1980 -----	665,747	9,024	262,777	21,908	41,386	58,608	69,173	71,704	237,265	99,583	40,984	13,187	2,927
Estimated²													
1980 -----	643,400	9,200	262,400	22,200	41,700	58,800	68,800	70,900	229,900	91,900	38,000	11,400	2,600
1979 -----	597,800	9,500	253,200	21,800	41,300	56,900	66,400	66,600	210,100	80,600	31,300	10,600	2,500
WHITE													
Reported/Inferred¹													
1980 -----	320,063	3,144	127,984	9,223	19,653	28,885	34,427	35,796	112,854	46,872	20,585	7,073	1,571
Estimated²													
1980 -----	294,200	3,200	125,500	9,300	19,600	28,600	33,500	34,500	103,600	39,200	15,900	5,500	1,200
1979 -----	263,000	3,300	116,400	9,000	18,600	26,700	31,300	30,800	90,200	33,200	13,700	4,900	1,200
ALL OTHER													
Reported/Inferred¹													
1980 -----	345,684	5,880	134,793	12,685	21,733	29,721	34,746	35,908	124,411	52,711	20,419	6,114	1,356
Estimated²													
1980 -----	349,300	6,000	136,900	12,800	22,100	30,200	35,300	36,400	126,300	52,700	20,100	5,900	1,300
1979 -----	334,800	6,200	136,700	12,800	22,800	30,300	35,100	35,800	119,900	47,400	17,600	5,700	1,300
BLACK													
Reported/Inferred¹													
1980 -----	325,737	5,707	128,022	12,223	20,786	28,195	32,929	33,889	117,423	49,077	18,768	5,513	1,229
Estimated²													
1980 -----	327,000	5,800	129,700	12,400	21,100	28,800	33,400	34,200	118,300	48,500	18,300	5,200	1,200
1979 -----	315,800	6,100	130,100	12,300	21,800	28,800	33,200	33,900	113,100	44,000	18,100	5,200	1,200

¹Data for the States in which marital status was not reported have been inferred from other items on the birth certificate and included with data from the reporting States, see text.

²Births to unmarried women are estimated for the United States from data for registration areas in which marital status of mother was reported.

percent in hospitals raised from 98.5 to 99.0. For 1974 and earlier, the "In hospital" category in previous volumes and in table 1-37 of this volume includes all births in hospitals or institutions and births in clinics, centers, or maternity homes only when attended by physicians.

For births occurring outside hospitals separate classifications are shown for physicians, midwives, and for "other and not specified" attendants. This last category also includes births for which no information is reported for place of birth. Before 1975, cases where the hospital item on the certificate had an entry of "doctor's office," and the birth was delivered by a physician were included in the category "In hospital." Beginning in 1975, births that were delivered by physicians in a "doctor's office" were tabulated as "Not in hospital" and included with births delivered by physicians in this category. Although the actual number of such births is unknown, the effect of the change is minimal. In 1974, 0.3 percent of all births were delivered by physicians outside of hospitals; in 1975 this proportion was 0.4 percent.

Babies born en route 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. Detailed information on out-of-hospital and midwife in-hospital deliveries are presented in another report.¹⁰

Birth weight

In practically all areas birth weight is reported in terms of 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 birth weight have been changed in 1979 to be consistent with the recommendations in the Ninth Revision of the International Classification of Diseases (ICD-9). The revised 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

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

(1948). A previous publication presents a detailed analysis of factors associated with low birth weight and recent trends.¹¹

After data classified by pounds and ounces are converted to grams, median weights are computed and rounded prior to 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 3½ oz-3 lb 4½ oz.

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

Period of gestation

The period of gestation is defined as beginning with the first day of the last normal menstrual period (LMP) and ending with the day of the birth. The LMP is used as the initial date since it can be more accurately determined than the date of conception, which usually occurs 2 weeks after the LMP.

An examination of the period of gestation information reported in terms of weeks or months in previous years shows a substantial heaping at 40 weeks. This bias results from the fact that the gestation period is frequently not carefully observed and that the newborn infant of normal size is generally assumed to have had a gestation period of 40 weeks or 9 months, depending on conventional usage. Such errors in reporting are minimized in areas where this item on the birth certificate requests the "date last normal menses began" as suggested on the 1968 revision of the U.S. Standard Certificate of Live Birth.

For 1980 the computation of period of gestation is based entirely on LMP data from the 46 States and the District of Columbia reporting LMP, indicated in table A. Gestation data for the three States reporting period of gestation in terms of weeks or months are excluded from the tabulations in this report.

Births occurring before 37 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 weeks and over, "post term." These distinctions are in accordance with the definitions of ICD-9.

The period of gestation is computed only when there is a valid month, day, and year of LMP. The calculated period of gestation in completed weeks is edited for upper and lower limits. If the interval between date of last normal menstrual period and date of birth is 16 weeks or less, or 53 weeks or more, the period of gestation is considered not stated.

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

Month of pregnancy prenatal care began

Data on month of pregnancy prenatal care began are available for all States and the District of Columbia in 1980.

For those cases in which the name of the month is entered for this item, instead of first, second, third, etc., the month of pregnancy in which prenatal care began is determined from the month named and the month last normal menses began. For these births, if the item "date last normal menses began" is not on the certificate or not stated, month of pregnancy prenatal care began is tabulated as not stated. An analysis of trends and differentials in prenatal care can be found in another report.¹²

Number of prenatal visits

Tabulations on the number of prenatal visits were presented for the first time in 1972. In 1980 these data were collected from the birth certificates of 48 States and the District of Columbia (see table A).

Apgar score

One- 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. It is a useful measure of the need for resuscitation and a predictor of the infant's chances of surviving the first year of life. The Apgar score is a summary measure of the infant's condition based on heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each of these factors is given a score of 0, 1, or 2; the sum of these 5 values is the Apgar score, which ranges from 0 to 10. A score of 10 is optimum, and a low score raises some doubts about the survival and subsequent health of the infant. In 1980 the 1-minute Apgar score was included on the birth certificates of 44 States, and the 5-minute Apgar score was included on the certificates of 43 States and the District of Columbia. See table A for a listing of reporting areas. A detailed analysis of Apgar scores can be found in a previous report.¹³

QUALITY OF DATA

While 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 defects should not be ignored, but their existence does not vitiate the value of the data for most general purposes.

Completeness of registration

An estimated 99.3 percent of all births occurring in the United States in 1980 were registered. This estimate is based on the results of the 1964-68 test of birth-registration completeness according to place of delivery (in or out of hospital) and race and on the 1980 proportions of births in these categories. The primary purpose of the test was to obtain current measures of registration completeness for births in and out of hospital by race on a national basis. Data for States were not available, as they were from the previous birth-registration tests in 1940 and 1950. (For a detailed discussion of the method and results of the 1964-68 birth-registration test see U.S. Bureau of the Census, "Test of Birth-Registration Completeness, 1964 to 1966," in the 1970 *Census of Population and Housing, Evaluation and Research Program, PHC(E)2*.)

The 1964-68 test has provided an opportunity to revise the estimates of birth-registration completeness for the years since the previous test in 1950 to reflect the improvement in registration. This has been done using registration completeness figures from the two tests by place of delivery and race. Estimates of registration completeness for four groups (based on place of delivery and race) for 1951-65 were computed by interpolation between the test results. (It was assumed that the data from the more recent test are for 1966, the midpoint of the test period.) The results of the 1964-68 test are assumed to prevail for 1966 and later years. These estimates were used with the proportions of births registered in these categories to obtain revised numbers of births adjusted for underregistration for each year. The overall percent of birth-registration completeness by race was then computed. The figures for 1951-68 shown in table 1-21 differ slightly from those shown in annual reports for years prior to 1969.

Data adjusted for underregistration for 1951-59 shown in tables 1-1, 1-3, 1-4, 1-6, and 1-8 have been revised to be consistent with the 1964-68 test results and differ slightly from data shown in annual reports for years prior to 1969. For these years the published number of births and birth rates for both racial groups have been revised slightly downward since the 1964-68 test indicated that previous adjustments to registered births were slightly inflated. Since registration completeness figures by age of mother and by live-birth order are not available from the 1964-68 test, it must be assumed that the relationships among these variables have not changed since 1950.

Discontinuation of adjustment for underregistration, 1960.—Adjustment for underregistration of births was discontinued in 1960, when birth registration for the United

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

The age-specific rates used in the cohort fertility tables (tables 1-12 through 1-19) represent an exception to the above statement. These rates are computed from births corrected for underregistration and population estimates adjusted for underenumeration and misstatement of age. Adjusted births and population estimates are used for the cohort rates because they are an integral part of a series of rates, estimated with a consistent methodology. It was considered desirable to maintain consistency with respect to the cohort rates, even though it means that they will not be precisely comparable with other rates shown for 5-year age groups.

Quality control procedures

Nativity data coded by NCHS are simultaneously coded and entered onto magnetic tape for input to the computer. Errors are controlled by an independent replication of the original coding by verification clerks and by resolution of any discrepancies. Original coding entries are subject to total verification except for work by coders who maintain an error rate of 2.5 percent or less. For these qualified coders the original coding is verified on the basis of a 10-percent sample of the coded natality records until the allowable error rate is exceeded. Then their coding is verified on a 100-percent basis until it requalifies for sample verification. Errors detected by any method of verification are reviewed to determine coding bias.

Data that are coded by States and received through the Vital Statistics Cooperative Program are required to have an error rate of less than 2.0 percent for each item. In almost all of these States 100 percent of the coding is verified. NCHS monitors the quality of these data through independent verification of a sample of records to ensure that the item error rate is not more than 2.0 percent.

After completion of coding, counts of the taped records are balanced against control totals for each shipment of records from a registration area. Impossible codes are eliminated during the editing processes on the computer and are corrected on the basis of reference to the source record or adjusted by arbitrary code assignment. All subsequent operations involved in tabulating and table preparation are verified during the computer processing or by statistical clerks.

Small frequencies

The numbers of births reported for an area represent complete counts, except for those States where data are based on a 50-percent sample. As such, they are not subject to sampling error, although they are subject to errors in the registration process. However, when the figures are used for analytical purposes, such as the comparison of rates over a time period or for different areas, the number of events that actually occurred may be considered as one of a large series of possible results that could have arisen under the same circumstances. The probable range of values may be estimated from the actual figures according to certain statistical assumptions.

In general, distributions of vital events may be assumed to follow the binomial distribution. Estimates of standard errors and tests of significance under this assumption are described in most standard statistics texts. When the number of events is large, the standard error, expressed as a percent of the number or rate, is usually small.

When the number of events is small (perhaps less than 100) and the probability of such an event is small, considerable caution must be observed in interpreting the conditions described by the figures. Events of rare nature may be assumed to follow a Poisson probability distribution. For this distribution, a simple approximation may be used to estimate the error as follows:

If N is the number of births⁴ and R is the corresponding rate, the chances are 19 in 20 that

1. The "true" number of events lies between

$$N - 2\sqrt{N} \text{ and } N + 2\sqrt{N}$$

2. The "true" rate lies between

$$R - 2\frac{R}{\sqrt{N}} \text{ and } R + 2\frac{R}{\sqrt{N}}$$

If the rate R corresponding to N events is compared with the rate S corresponding to M events, the difference between the two rates may be regarded as statistically significant if it exceeds

$$2\sqrt{\frac{R^2}{N} + \frac{S^2}{M}}$$

For example, suppose that the observed birth rate for Area A was 15.0 per 1,000 population and that this rate was based on 20 recorded births. Given prevailing conditions, the chances are 19 in 20 that the "true" or underlying birth rate for that area lies between 8.3 and 21.7 per 1,000 population. Let it be further supposed that the birth rate for Area A of 15.0 per 1,000 population were being

⁴For States for which birth data are based on a 50-percent sample of births, N should be taken as one-half of the number of births given in the tables.

compared with a rate of 20.0 per 1,000 population for Area B which is based on 10 recorded births. While the difference between the rates for the two areas is 5.0, this difference is less than twice the standard error of the difference

$$2\sqrt{\frac{(15.0)^2}{20} + \frac{(20.0)^2}{10}}$$

of the two rates which is computed to be 14.3. From this, it is concluded that the difference between the rates for the two areas is not statistically significant.

Sampling of birth records

Birth statistics presented in this report for years before 1951 and for 1955 are based on the total file of birth records. Statistics for 1951-54, 1956-66, and 1968-71 are based on 50-percent samples except data for Guam and the Virgin Islands, which are based on all the records filed. During the course of processing the 1967 data the sampling rate was reduced from 50 percent to 20 percent. For details of this procedure and its consequences for the 1967 data see *Vital Statistics of the United States, 1967*, Volume I, pages 3-9 to 3-11. Beginning in 1972, statistics are based on all records filed in the States submitting computer tapes and on a 50-percent sample of records in all other States. In 1980 the total file of birth records was used for 44 States (see Sources of Data), which accounted for about 83 percent of all births in the country.

The sample design is essentially a stratified random sample. The sampling frame consists of births that occur in the United States during a calendar year and that are recorded by State registrars of vital statistics. Each month the birth certificates that have been filed during that month are sent by local registrars to the State registrars, where the records are numbered consecutively as they are received.

Therefore the records for each local registration area, usually a county, are numbered sequentially, and the total file of birth records for each State is grouped by county of occurrence. Microfilm copies of the birth records filed in the States are generally forwarded each month to NCHS, where a sample is drawn on the basis of the terminal digit of the record number. Even-numbered records are selected for the 50-percent sampling rate.

Total births by place of occurrence are not subject to sampling error. There is, however, sampling error in the total number of births when tabulated by place of residence and in the number of births by characteristics such as race and age of mother when tabulated by either residence or occurrence.

Sampling error is the difference between an estimate based on a sample and the true value (assuming there is no measurement error). As calculated for this report the standard error reflects this error as well as random measurement errors that may have been made when the data were collected and processed. However, it does not include any systematic biases in the data. The chances are about two out of three that a sample estimate differs from the value which would have been obtained from all births by less than one standard error. The chances are about 19 out of 20 that the difference is less than twice the standard error and about 99 out of 100 that it is less than 2½ times as large.

For estimated numbers of births in 1980 by characteristics in States with a 50-percent sample, the approximate standard errors for a sampling rate of 50 percent are presented in table C. To determine the standard error of an estimate from table C, one must know the total number of births in the area and the estimate of the number of births with a specified characteristic. For estimated births with a specified characteristic by place of occurrence, the appropriate "Total births in the area" is the number occurring in the area, e.g., city, county, or State. For the estimated total number of births and the number of births

Table C. Standard errors of estimated births by size of estimate and total births in the area: United States, 1980

Number of births with a specified characteristic	Total births in the area ¹								
	250	500	1,000	2,000	5,000	10,000	20,000	50,000	500,000
10 -----	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
20 -----	4.3	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5
30 -----	5.1	5.3	5.4	5.4	5.5	5.5	5.5	5.5	5.5
50 -----	6.3	6.7	6.9	7.0	7.1	7.1	7.1	7.1	7.1
100 -----	7.7	8.9	9.5	9.7	9.9	9.9	10.0	10.0	10.0
250 -----	0.0	11.3	13.8	14.8	15.5	15.5	15.8	15.8	15.8
500 -----	...	0.0	16.0	19.5	21.0	22.0	22.0	22.0	22.5
1,000 -----	...	...	0.0	22.0	28.0	30.0	31.0	31.0	32.0
2,000 -----	...	...	...	0.0	34.0	40.0	42.0	44.0	44.0
5,000 -----	...	...	...	...	0.0	50.0	60.0	65.0	70.0
10,000 -----	...	...	...	...	...	0.0	70.0	90.0	100.0
20,000 -----	...	...	...	...	...	...	0.0	100.0	140.0
50,000 -----	...	...	...	...	...	...	...	0.0	200.0
100,000 -----	...	...	...	...	...	...	...	...	300.0

¹By place of occurrence "Total births in the area" refers to the number of births occurring in the city, county, or State; by place of residence "Total births in the area" refers to the number of births to residents of the State.

with a specified characteristic by place of residence, the number of births to residents of the State is used as the total births in the area.

For example, consider a State with 50,000 total births and an estimate of 500 births to women 30-34 years of age in an SMSA of that State. Table C shows that when "Total births in the area" is 50,000, the standard error for an estimate of 500 births is 22 births. Applying the concept stated above, the probability is 0.67 that the actual number of births is between 478 and 522 and about 0.95 that the actual number is between 456 and 544.

The sample errors shown in table C are likely to be slight overstatements for estimated numbers of births with specified characteristics by place of occurrence at the State level; for county and city statistics they should be quite accurate. For the estimated total number of births and numbers of births with specified characteristics by county or city of residence, the sampling errors in table C are slightly overstated in most cases; for some areas the sampling errors may be considerably lower than those shown. Sampling errors shown in table C are considerably overstated for national data beginning with 1972, when statistics are based on both a 50-percent sample of births from some States and the full file of records from other States. The overstatement is particularly large in recent years, when a majority of births in the United States have been tabulated on a 100-percent basis. In 1980, sampling error can be considered as minimal, since only 17.0 percent of the births are sampled on a 50-percent basis.

COMPUTATION OF RATES AND OTHER MEASURES

Population bases

The rates shown in this report were computed on the basis of population statistics prepared by the U.S. Bureau of the Census. Rates for 1940, 1950, 1960, 1970, and 1980

are based on the population enumerated as of April 1 in the censuses of those years. Rates for all other years are based on the estimated midyear (July 1) population for the respective years. Birth rates for the United States, individual States, and SMSA's are based on the total resident populations of the respective areas. Except as noted these populations exclude the Armed Forces abroad but include the Armed Forces stationed in each area.

The resident population of the birth- and death-registration States for 1900-1932 and for the United States for 1900-1980 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.

Population estimates for 1980.—The population of the United States by age, race, and sex is shown in table 4-2; the figures by race have been modified as described below. The population for each State is shown in table 4-3 and the monthly population figures are published in *Current Population Reports*, Series P-25, Number 899.

The racial counts in the 1980 census are affected by changes in racial reporting practices, particularly by the Hispanic population, and in coding and classifying racial groups in the 1980 census. One particular change has created a major inconsistency between the 1980 census data and historical data series, including censuses and vital statistics. About 40 percent of the Hispanic population counted in 1980, over 5.8 million persons, did not mark one of the specified races listed on the census questionnaire but instead marked the "Other" category. In the 1980 census, coding procedures were modified for persons who marked "Other" race and wrote in a national origin designation of a Latin American country or a specific Hispanic origin group in response to the racial question. These persons remained in the "Other" racial category in 1980 census data; in previous censuses and in vital statistics such responses were almost always coded into the "White" category.

In order to maintain comparability, the "Other" racial category in the 1980 census has been reallocated to be con-

Table D. Sources for resident population and population including Armed Forces abroad: Birth- and death-registration States, 1900-1932, and United States, 1900-1980

Year	Source
1980-----	U.S. Bureau of the Census, <i>U.S. Census of Population: 1980. Number of Inhabitants</i> , PC80-1-A1, United States Summary, 1983.
1971-79-----	U.S. Bureau of the Census, <i>Current Population Reports</i> , Series P-25, No. 917, July 1982.
1970-----	U.S. Bureau of the Census, <i>U.S. Census of Population: 1970. Number of Inhabitants</i> , Final Report PC(1)-A1, United States Summary, 1971.
1961-69-----	U.S. Bureau of the Census, <i>Current Population Reports</i> , Series P-25, No. 519, April 1974.
1960-----	U.S. Bureau of the Census, <i>U.S. Census of Population: 1960. Number of Inhabitants</i> , PC(1)-A1, United States Summary, 1964.
1951-59-----	U.S. Bureau of the Census, <i>Current Population Reports</i> , Series P-25, No. 310, June 30, 1965.
1940-50-----	U.S. Bureau of the Census, <i>Current Population Reports</i> , Series P-25, No. 499, May 1973.
1930-39-----	U.S. Bureau of the Census, <i>Current Population Reports</i> , Series P-25, No. 499, May 1973, and National Office of Vital Statistics, <i>Vital Statistics Rates in the United States, 1900-1940</i> , 1947.
1920-29-----	National Office of Vital Statistics, <i>Vital Statistics Rates in the United States, 1900-1940</i> , 1947.
1917-19-----	Same as for 1930-39.
1900-16-----	Same as for 1920-29.

sistent with previous procedures. Persons who marked the "Other" racial category and reported any Spanish origin on the Spanish origin question (5,840,648 persons) were distributed to white and black races in proportion to the distribution of persons of Hispanic origin who reported their race to be white or black. This was done for each age-sex group. As a result of this procedure, 5,705,155 persons were added to the white population and 135,493 persons to the black population. Persons who marked the "Other" racial category and reported that they were not of Spanish origin (916,338 persons) were distributed as follows: 20 percent in each age-sex group were added to the "Asian and Pacific Islander" category (183,268 persons) and 80 percent were added to the "White" category (733,070 persons). The count of American Indians, Eskimos, and Aleuts was not affected by these procedures. Unpublished tabulations of these modified census counts were obtained from the Bureau of the Census and were used to compute the rates for this report, except for tables 1-12 through 1-19.

Population estimates for 1971-79.—Birth rates for 1971-79 (except those for cohorts of women in tables 1-12 through 1-19) have been revised, based on revised population estimates which are consistent with the 1980 Census levels. The 1980 Census counted approximately 5.5 million more persons than had earlier been estimated for April 1, 1980.¹⁴ The revised estimates for the United States by age, race, and sex are published by the Bureau of the Census in the *Current Population Reports*, Series P-25, Number 917. Population estimates by month are based on data published in *Current Population Reports*, Series P-25, Number 899. Unpublished revised estimates for States were obtained from the Bureau of the Census.

Population estimates for 1961-69.—Birth rates in this volume for 1961-69 (except for those shown in tables 1-4 and 1-5) are based on revised estimates of the population and thus may differ slightly from rates published before 1976. The revised estimates used in computing these rates are published in *Current Population Reports*, Series P-25, Number 519. The rates shown in tables 1-4 and 1-5 for 1961-64 are based on revised estimates of the population published in *Current Population Reports*, Series P-25, Numbers 321 and 324 and may differ slightly from rates published in those years.

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

Cohort fertility tables

The various fertility measures shown for cohorts of women in tables 1-12 through 1-19 are computed from births adjusted for underregistration and population esti-

mates corrected for underenumeration and misstatement of age. The data shown in this volume are not consistent with data published in annual reports prior to 1974. These data use revised population estimates prepared by the Bureau of the Census and have been expanded to include data for the two major racial groups. A detailed description of the methods used in deriving these measures as well as more detailed data for earlier years are published in a separate volume.¹⁵ For consistency with data for previous years, which have not been revised, the cohort rates for 1980 shown in this volume are not based on 1980 census counts, but on 1970-consistent population estimates.

Age-sex-adjusted birth rates

The age-sex-adjusted birth rates shown in table 1-3 are computed by the direct method. The age distribution of women aged 10-49 years as enumerated in 1940 and the total population of the United States for that year are used as the standard populations. The birth rates by age of mother and race that are used to compute these adjusted rates are shown in table 1-6. The age-sex-adjusted birth rates show differences in the level of fertility independent of differences in the age and sex composition of the population. It is important not to confuse these adjusted rates with the crude rates shown in other tables.

Total fertility rate

The total fertility rate is the sum of the birth rates by age of mother (in 5-year age groups) multiplied by 5. It is an age-adjusted rate because it is based on the assumption that there are the same number of women in each age group. In table 1-6 the rate of 1.840 in 1980, 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 1980, they would have a total of 1,840 children by the time they reached the end of the reproductive period (taken here as age 50), assuming that all of the women survive to that age.

Intrinsic vital rates

The intrinsic vital rates shown in table 1-5 are calculated from a stable population. A stable population is that hypothetical population, closed to external migration, which would become fixed in age-sex structure after repeated applications of a constant set of age-sex specific birth and death rates. (For the mathematical derivation of intrinsic vital rates see *Vital Statistics of the United States*, 1962, Volume I, pages 4-13 and 4-14. For the technique of calculating intrinsic vital rates see *Techniques of Population Analysis*, by George W. Barclay, New York, John Wiley and Sons, Incorporated, 1955, pages 216-222.)

Parity distribution

The percent distribution of women by parity (number of children ever born alive to mother) shown in tables 1-13 and 1-17 is derived from cumulative birth rates by order of birth, which are shown in tables 1-15 and 1-19. The percent of zero-parity women is found by subtracting the cumulative first birth rate from 1,000 and dividing by 10. The proportions of women at parities one through six are found from the following formula:

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

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

Seasonal adjustment of rates

The seasonally adjusted birth and fertility rates shown in table 1-23 are computed from the X-11 variant of Census Method II.¹⁶ This method of seasonal adjustment used since 1964 differs slightly from the 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. Prior to 1964 the method of seasonal

adjustment was based on the X-9 variant and other variants of Census Method II. A comparison between Census Method II and the BLS Seasonal Factor Method shows the differences in the seasonal patterns of births to be negligible. A detailed analysis of factors associated with seasonality has been published.¹⁷

Computation of percents, medians, and means

Percent distributions, medians, and means are computed using only events for which the characteristic is reported. The "Not stated" category is subtracted from the total before computation of these measures. Data are shown with an asterisk (*) when the base of the percent, median, or mean is less than 20 events.

SYMBOLS USED IN TABLES

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

REFERENCES

- ¹Third World Health Assembly: *Official Records*, No. 25 (WHA 3.6). Geneva: World Health Organization, May 1950, pp. 16-17.
- ²Statistical Office of the United Nations: *Principles for a Vital Statistics System; Recommendations for the Improvement and Standardization of Vital Statistics*. Doc. ST/STAT/SER/M/19. New York: United Nations, Aug. 1953, p. 6.
- ³National Office of Vital Statistics: *International Recommendations on Definitions of Live Birth and Fetal Deaths*. PHS Pub. No. 39. Public Health Service, Washington, U.S. Government Printing Office, Oct. 1950, p. 6.
- ⁴Office of Management and Budget: Standard metropolitan statistical areas and standard consolidated areas. *Statistical Reporter*. Washington, U.S. Government Printing Office, Oct. 1981, pp. 1-20.
- ⁵U.S. Department of Commerce. The metropolitan statistical area classification. *Statistical Reporter*. Washington, U.S. Government Printing Office, Dec. 1979, p. 35.
- ⁶Office of Management and Budget: *Standard Metropolitan Statistical Areas*. Washington, U.S. Government Printing Office, Revised Edition, 1975, pp. 89-90. Office of Management and Budget, 36 new standard metropolitan statistical areas. *Statistical Reporter*. Washington, U.S. Government Printing Office, July 1981, p. 420.
- ⁷National Vital Statistics Division, J. Schachter: Matched record comparison of birth certificate and census information in the United States, 1950. *Vital Statistics—Special Reports*, Vol. 47, No. 12. Public Health Service, Washington, D.C., Mar. 1962.
- ⁸National Center for Health Statistics, E. Spratley and S. Taffel: Interval between births, United States, 1970-77. *Vital and Health Statistics Series 21—No. 39*. DHHS Pub. No. (PHS) 81-1917. Public Health Service, Washington, U.S. Government Printing Office, Aug. 1981.
- ⁹National Center for Health Statistics, S. J. Ventura: Trends and differentials in births to unmarried women, United States, 1970-76. *Vital and Health Statistics Series 21—No. 36*. DHHS Pub. No. (PHS) 80-1914. Public Health Service, Washington, U.S. Government Printing Office, May 1980.
- ¹⁰National Center for Health Statistics, S. Taffel: Midwife and out-of-hospital deliveries, United States, 1975-79. *Vital and Health Statistics Series 21*. Public Health Service, DHHS, Hyattsville, Md. To be published.
- ¹¹National Center for Health Statistics, S. Taffel: Factors associated with low birth weight, United States, 1976. *Vital and Health Statistics Series 21—No. 37*. DHEW Pub. No. (PHS) 80-1915. Public Health Service, Washington, U.S. Government Printing Office, Apr. 1980.
- ¹²National Center for Health Statistics, S. Taffel: Prenatal Care, United States, 1969-1975. *Vital and Health Statistics Series 21—No. 33*. DHEW Pub. No. (PHS) 76-1911. Public Health Service, Washington, U.S. Government Printing Office, Sept. 1978.
- ¹³National Center for Health Statistics, L. J. Querec: Apgar score in the United States, 1976. *Monthly Vital Statistics Report*, Vol. 30, No. 1, Supplement. DHHS Pub. No. (PHS) 81-1120. Public Health Service, Washington, U.S. Government Printing Office, May 1981.
- ¹⁴U.S. Bureau of the Census: Coverage of the national population in the 1980 Census by age, sex, and race. Preliminary estimates by demographic analysis. *Current Population Reports*, P-23, No. 115. Washington, U.S. Government Printing Office, Feb. 1982.
- ¹⁵National Center for Health Statistics, R. Heuser: *Fertility Tables for Birth Cohorts by Color, United States, 1917-73*. DHEW Pub. No. (HRA) 76-1152. Health Resources Administration, Washington, U.S. Government Printing Office, 1976.
- ¹⁶U.S. Bureau of the Census: *The X-11 Variant of the Census Method II Seasonal Adjustment Program*. Technical Paper No. 15. Washington, U.S. Government Printing Office, 1965.
- ¹⁷National Center for Health Statistics, H. M. Rosenberg: Seasonal variation of births, United States, 1933-63. *Vital and Health Statistics Series 21—No. 9*. PHS Pub. No. 1000. Public Health Service, Washington, U.S. Government Printing Office, Mar. 1966, p. 41.