



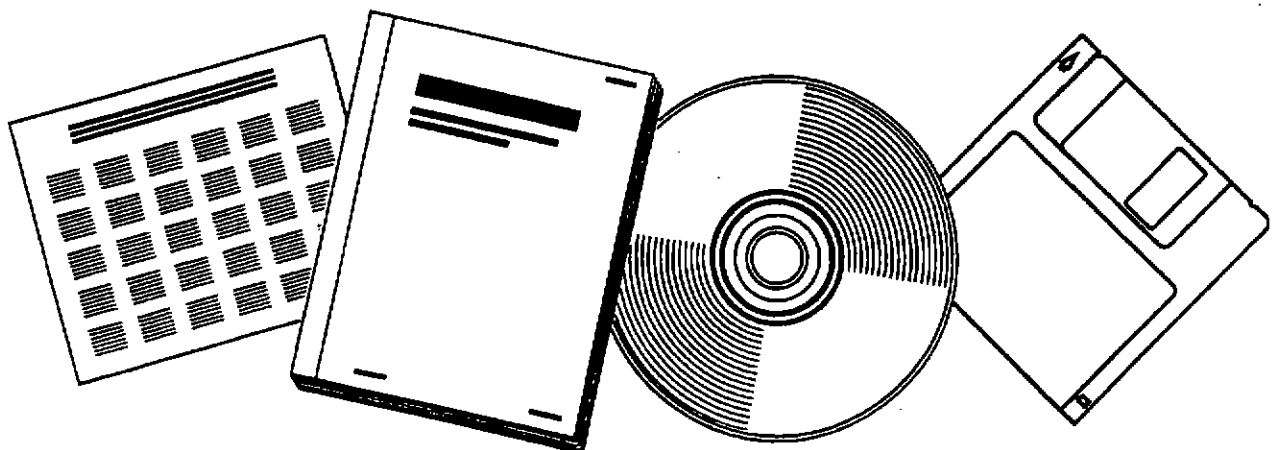
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# VITAL STATISTICS NATALITY DATA, DETAIL, 1979. TAPE CONTENTS AND DOCUMENTATION PACKAGE

NATIONAL CENTER FOR HEALTH STATISTICS,  
HYATTSVILLE, MD. DIV. OF VITAL  
STATISTICS

1979



U.S. DEPARTMENT OF COMMERCE  
National Technical Information Service



1979 DETAIL NATALITY  
STANDARD MICRO-DATA TAPE TRANSCRIPT  
TAPE CONTENTS DOCUMENTATION

Prepared by:  
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|  |                                  |  |                              |
|--|----------------------------------|--|------------------------------|
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| Title and Subtitle<br>Vital Statistics Natality Data, Detailed 1979<br>Tape Contents and Documentation Package   |                                  | 4. Report Date                                   |                              |
| Author(s)  |                                  | 5. Performing Organization Rept. No.<br>329034   |                              |
| Performing Organization Name and Address<br>National Center for Health Statistics<br>Division of Vital Statistics<br>3700 East-West Highway<br>Hyattsville, Maryland 20782   |                                  | 10. Project/Task/Work Unit No.                   |                              |
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|  |                                  | 14.  |                              |
| Notes<br>For magnetic tape see PDB2 132325   |                                  |  |                              |
| Abstract (Limit: 200 words)<br>Vital statistics data relating to natality provide demographic and health data for births occurring during the calendar year. The data are based on information abstracted from birth certificates filed in vital statistics offices of each State and the District of Columbia. Prior to 1972, data are based on a 50-percent sample of birth certificates from all States. Beginning in 1972, data are based on 100 percent of the birth certificates from some of the States and on a 50-percent sample from the remaining States. The number of States from which 100 percent of the records are used has increased from 6 in 1972 to 42 in 1979 and these States are identified by data year in Appendix A of the tape documentation package. Demographic data include variables such as date of birth, age and educational attainment of parents, marital status, live-birth order, race, sex, and geographic area. Health data include such items as birth weight, gestation, prenatal care, attendant at birth, and Apgar score.<br><br>The number of births and birth rates for selected demographic variables are published annually in <u>Vital Statistics of the United States, Volume I, "Natality."</u> A technical appendix giving information regarding the historical aspect and limitations of the data is included in the published volumes. Specialized reports are published periodically in <u>Vital and Health Statistics.</u> |                                  |  |                              |
| Document Analysis a. Descriptors   |                                  |  |                              |
| b. Identifiers/Open Ended Terms  |                                  |  |                              |
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Introduction to Natality  
Tape Documentation

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 States that submit data on a 100 percent basis.

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.

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: 3,184,421
  - b. FOREIGN RESIDENTS: 4,993
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: 3,499,795
  - b. BY RESIDENCE: 3,494,398
  - c. TO FOREIGN RESIDENTS: 5,397

Attachments to Natality Documentation

- Appendix A: State names, codes and identity of States that submit data on a 100 percent basis.
- Appendix B: Standard Metropolitan Statistical Areas as adapted for use by NCHS/DVS. (Effective with 1970 data).
- Appendix C: Outline of differences between the 1978 and 1979 data records.

Tape  
Location

Field  
Size

|      |   |   |
|------|---|---|
| 1    | 1 | <u>Data Year</u>  |
|      |   | 9 ... 1979  |
| 2-3  | 2 | <u>Shipment Number</u>  |
|      |   | Used for internal processing only.  |
| 4    | 1 | <u>Reporting Area(*)</u>  |
|      |   | The following codes used with the State of<br>Occurrence codes, tape locations 28-29,<br>identify separate reporting areas. |
|      |   | 1 ... Bronx Borough   |
|      |   | 2 ... Brooklyn Borough  |
|      |   | 3 ... Manhattan Borough   |
|      |   | 4 ... Queens Borough  |
|      |   | 5 ... Richmond Borough  |
|      |   | 6 ... Chicago   |
|      |   | 0 ... All other areas   |
| 5-10 | 6 | <u>Certificate Number</u>   |
|      |   | These positions are blank.  |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|    |   |                       |
|----|---|-----------------------|
| 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.
- 4 ... FOREIGN RESIDENTS  
State of Occurrence is one of the 50 States  
or District of Columbia, but Place of  
Residence is outside of U.S.

|       |    |                           |
|-------|----|---------------------------|
| 13-27 | 15 | <u>PLACE OF RESIDENCE</u> |
|-------|----|---------------------------|

(See 1970 NCHS Geographic Codes)

|       |   |              |
|-------|---|--------------|
| 13-14 | 2 | <u>State</u> |
|-------|---|--------------|

Each State and the District of Columbia are  
numbered in alphabetical sequence from 01-51.  
(See Appendix A)

- 52 ... Puerto Rico
- 53 ... Virgin Islands
- 54 ... Guam
- 55 ... Canada
- 56 ... Cuba
- 57 ... Mexico
- 59 ... Remainder of World



Tape  
Location

Field  
Size

PLACE OF RESIDENCE: (CONT'D.)

15-17

3

County

Counties are numbered in alphabetical sequence within each State.

ZZZ ... Foreign Residents

18-20

3

City

These codes identify each city with a population of 100,000 or more in 1970. Cities are numbered in alphabetical sequence within each State.

999 ... Balance of County

ZZZ ... Foreign Residents

21

1

Population Size of City of Residence (\*)

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 U.S.

Z ... Foreign Residents

22-24

3

Standard Metropolitan Statistical Area (SMSA) (\*)

000 ... Nonmetropolitan counties except those coded &&&.

&&& ... Nonmetropolitan counties included in the Standard Consolidated Areas.

001-229 ... Represents the 229 SMSA's as defined in Appendix B.

ZZZ ... Foreign Residents

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

PLACE OF RESIDENCE: (CONT'D.)

|       |   |  |
|-------|---|--|
| 25    | 1 | <u>Metropolitan-NonMetropolitan County of Residence(*)</u><br><br>1 ... Metropolitan County<br>2 ... Nonmetropolitan County<br>Z ... Foreign Residents   |
| 26-27 | 2 | <u>Division and Subcode (By Place of Residence)(*)</u><br><br>States are coded within each Division in the<br>sequence in which they appear in NCHS Publications.<br><br><u>00 ... Foreign Residents</u><br><br><u>1 ... New England</u><br><br>1 ... Maine<br>2 ... New Hampshire<br>3 ... Vermont<br>4 ... Massachusetts<br>5 ... Rhode Island<br>6 ... Connecticut<br><br><u>2 ... Middle Atlantic</u><br><br>1 ... New York<br>2 ... New Jersey<br>3 ... Pennsylvania<br><br><u>3 ... East North Central</u><br><br>1 ... Ohio<br>2 ... Indiana<br>3 ... Illinois<br>4 ... Michigan<br>5 ... Wisconsin<br><br><u>4 ... West North Central</u><br><br>1 ... Minnesota<br>2 ... Iowa<br>3 ... Missouri<br>4 ... North Dakota<br>5 ... South Dakota<br>6 ... Nebraska<br>7 ... Kansas |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

PLACE OF RESIDENCE: (CONT'D.)

26-27

2

Division and Subcode (By Place of Residence)(\*) - Cont'd.

5 ... South Atlantic

- 1 ... Delaware
- 2 ... Maryland
- 3 ... District of Columbia
- 4 ... Virginia
- 5 ... West Virginia
- 6 ... North Carolina
- 7 ... South Carolina
- 8 ... Georgia
- 9 ... Florida

6 ... East South Central

- 1 ... Kentucky
- 2 ... Tennessee
- 3 ... Alabama
- 4 ... Mississippi

7 ... West South Central

- 1 ... Arkansas
- 2 ... Louisiana
- 3 ... Oklahoma
- 4 ... Texas

8 ... Mountain

- 1 ... Montana
- 2 ... Idaho
- 3 ... Wyoming
- 4 ... Colorado
- 5 ... New Mexico
- 6 ... Arizona
- 7 ... Utah
- 8 ... Nevada

9 ... Pacific

- 1 ... Washington
- 2 ... Oregon
- 3 ... California
- 4 ... Alaska
- 5 ... Hawaii

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|       |   |   |
|-------|---|---|
| 28-34 | 7 | <u>PLACE OF OCCURRENCE</u> (See 1970 NCHS Geographic Codes) |
|-------|---|---|

|       |   |              |
|-------|---|--------------|
| 28-29 | 2 | <u>State</u> |
|-------|---|--------------|

Each State and the District of Columbia are numbered in alphabetical sequence from 01-51. (Appendix A)

|       |   |               |
|-------|---|---------------|
| 30-32 | 3 | <u>County</u> |
|-------|---|---------------|

Counties are numbered in alphabetical sequence within each state.

|       |   |   |
|-------|---|---|
| 33-34 | 2 | <u>Division and Subcode (By Place of Occurrence)(*)</u> |
|-------|---|---|

1 ... New England

- 1 ... Maine
- 2 ... New Hampshire
- 3 ... Vermont
- 4 ... Massachusetts
- 5 ... Rhode Island
- 6 ... Connecticut

2 ... Middle Atlantic

- 1 ... New York
- 2 ... New Jersey
- 3 ... Pennsylvania

3 ... East North Central

- 1 ... Ohio
- 2 ... Indiana
- 3 ... Illinois
- 4 ... Michigan
- 5 ... Wisconsin

4 ... West North Central

- 1 ... Minnesota
- 2 ... Iowa
- 3 ... Missouri
- 4 ... North Dakota
- 5 ... South Dakota
- 6 ... Nebraska
- 7 ... Kansas

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

PLACE OF OCCURRENCE: (CONT'D.)

|       |   |   |
|-------|---|---|
| 33-34 | 2 | <u>Division and Subcode (By Place of Occurrence)(*) - Cont'd.</u> |
|-------|---|---|

5 ... South Atlantic

- 1 ... Delaware
- 2 ... Maryland
- 3 ... District of Columbia
- 4 ... Virginia
- 5 ... West Virginia
- 6 ... North Carolina
- 7 ... South Carolina
- 8 ... Georgia
- 9 ... Florida

6 ... East South Central

- 1 ... Kentucky
- 2 ... Tennessee
- 3 ... Alabama
- 4 ... Mississippi

7 ... West South Central

- 1 ... Arkansas
- 2 ... Louisiana
- 3 ... Oklahoma
- 4 ... Texas

8 ... Mountain

- 1 ... Montana
- 2 ... Idaho
- 3 ... Wyoming
- 4 ... Colorado
- 5 ... New Mexico
- 6 ... Arizona
- 7 ... Utah
- 8 ... Nevada

9 ... Pacific

- 1 ... Washington
- 2 ... Oregon
- 3 ... California
- 4 ... Alaska
- 5 ... Hawaii

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|    |   |                     |
|----|---|---------------------|
| 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                           |

|    |   |  |
|----|---|--|
| 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                           |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|    |   |  |
|----|---|--|
| 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 |

|       |   |  |
|-------|---|--|
| 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                                |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|       |   |  |
|-------|---|--|
| 43-44 | 2 | <u>Age of Mother Single Years Recode 36(*) - Cont'd.</u> |
|-------|---|--|

|        |          |
|--------|----------|
| 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 |

|       |   |                                   |
|-------|---|-----------------------------------|
| 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 |



| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|       |   |   |
|-------|---|---|
| 47-48 | 2 | <u>Age of Mother Recode 12(*)</u><br>01 ... Under 15 Years<br>03 ... 15 Years<br>04 ... 16 Years<br>05 ... 17 Years<br>06 ... 18 Years<br>07 ... 19 Years<br>08 ... 20-24 Years<br>09 ... 25-29 Years<br>10 ... 30-34 Years<br>11 ... 35-39 Years<br>12 ... 40-44 Years<br>13 ... 45-49 Years |
| 49    | 1 | <u>Age of Mother Recode 8(*)</u><br>1 ... Under 15 Years<br>2 ... 15-19 Years<br>3 ... 20-24 Years<br>4 ... 25-29 Years<br>5 ... 30-34 Years<br>6 ... 35-39 Years<br>7 ... 40-44 Years<br>8 ... 45-49 Years   |
| 50    | 1 | <u>Age of Mother Recode 7(*)</u><br>1 ... Under 15 Years<br>2 ... 15-19 Years<br>3 ... 20-24 Years<br>4 ... 25-29 Years<br>5 ... 30-34 Years<br>6 ... 35-39 Years<br>7 ... 40-49 Years  |
| 51    | 1 | <u>Age of Mother Recode 6(*)</u><br>1 ... Under 20 Years<br>2 ... 20-24 Years<br>3 ... 25-29 Years<br>4 ... 30-34 Years<br>5 ... 35-39 Years<br>6 ... 40-49 Years   |

| Tape<br>Location | Field<br>Size |  |
|------------------|---------------|--|
| 52-53            | 2             | <u>Number of Children Born Alive, Now Living</u><br>00-50 ... Stated Number of Children<br>99 ... Unknown or Not Classifiable  |
| 54-55            | 2             | <u>Number of Children Born Alive, Now Dead</u><br>00-50 ... Stated Number of Children<br>99 ... Unknown or Not Classifiable  |
| 56-57            | 2             | <u>Number of Children Born Dead (Fetal Deaths)(*)</u><br>00-50 ... Stated Number of Children<br>99 ... Unknown or Not Classifiable   |
| 58-59            | 2             | <u>Total Birth Order - Detail(*)</u><br>01-50 ... Total number of Children ever born<br>to Mother<br>99 ... Unknown or Not Stated  |
| 60               | 1             | <u>Total Birth Order Recode 9(*)</u><br>1 ... First Child<br>2 ... Second Child<br>3 ... Third Child<br>4 ... Fourth Child<br>5 ... Fifth Child<br>6 ... Sixth Child<br>7 ... Seventh Child<br>8 ... Eighth Child and Over<br>9 ... Not Stated |
| 61-62            | 2             | <u>Detail Live Birth Order(*)</u><br>01-50 ... Number of Children Born Alive to<br>Mother<br>99 ... Unknown or Not Stated  |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|    |   |                                     |
|----|---|-------------------------------------|
| 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                    |

|    |   |                                     |
|----|---|-------------------------------------|
| 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                    |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|       |   |  |
|-------|---|--|
| 67    | 1 | <u>Live Birth Order Recode 3(*)</u><br>1 ... First Child<br>2 ... Second Child and Over<br>3 ... Not Stated  |
| 68    | 1 | Used for Internal Processing Only  |
| 69-70 | 2 | <u>Detail Age of Father</u><br>10-98 ... Age in Single Years<br>99 ... Not Stated  |
| 71-72 | 2 | <u>Age of Father Recode 11(*)</u><br>01 ... Under 15 Years<br>02 ... 15-19 Years<br>03 ... 20-24 Years<br>04 ... 25-29 Years<br>05 ... 30-34 Years<br>06 ... 35-39 Years<br>07 ... 40-44 Years<br>08 ... 45-49 Years<br>09 ... 50-54 Years<br>10 ... 55-98 Years<br>11 ... Not Stated  |
| 73-76 | 4 | <u>Birthweight - Detail in Grams</u><br>0227-8165 ... Number of grams<br>- 9999 ... Not Stated Birthweight   |
| 77-78 | 2 | <u>Birthweight Recode 12(*)</u><br>01 ... 499 grams or less<br>02 ... 500-999 grams<br>03 ... 1000-1499 grams<br>04 ... 1500-1999 grams<br>05 ... 2000-2499 grams<br>06 ... 2500-2999 grams<br>07 ... 3000-3499 grams<br>08 ... 3500-3999 grams<br>09 ... 4000-4499 grams<br>10 ... 4500-4999 grams<br>11 ... 5000-8165 grams<br>12 ... Not Stated |

Tape  
Location      Field  
Size

|       |   |  |
|-------|---|--|
| 79    | 1 | <u>Birthweight Recode 3(*)</u><br>1 ... 2499 grams or less<br>2 ... 2500 grams or more<br>3 ... Not Stated   |
| 80    | 1 | <u>Place of Delivery</u><br>1 ... Hospital Births<br>2 ... Non-hospital Births<br>3 ... En route or BOA<br>9 ... Not classifiable  |
| 81    | 1 | <u>Plurality - Detail</u><br>1 ... Single Birth<br>2 ... Twin<br>3 ... Third or Higher Birth   |
| 82    | 1 | <u>Plurality Recode 3(*)</u><br>1 ... Single Birth<br>2 ... Twin Birth<br>3 ... Other Multiple Births  |
| 83    | 1 | <u>Plurality Recode 2(*)</u><br>1 ... Single Birth<br>2 ... Multiple Birth   |
| 84-87 | 4 | <u>DATE OF BIRTH</u>   |
| 84-85 | 2 | <u>Month</u><br>01 ... January      07 ... July<br>02 ... February     08 ... August<br>03 ... March        09 ... September<br>04 ... April        10 ... October<br>05 ... May          11 ... November<br>06 ... June         12 ... December |
| 86-87 | 2 | <u>Day</u><br>01-31 ... As Applicable<br>99 ... Not Stated   |

| <u>Tape<br/>Location</u> | <u>Field<br/>Size</u> |  |
|--------------------------|-----------------------|--|
| 88-92                    | 5                     | <u>DATE OF LAST MENSTRUAL PERIOD</u>   |
| 88-89                    | 2                     | <u>Month</u><br>01-12 ... January thru December<br>99 ... Not Stated Month of LMP  |
| 90-91                    | 2                     | <u>Day</u><br>01-31 ... As Applicable<br>99 ... Not Stated Day of LMP  |
| 92                       | 1                     | <u>Year</u><br>8 ... 1978<br>9 ... 1979<br>- ... Not Stated  |
| 93-94                    | 2                     | <u>Detail Gestation In Weeks(*)</u><br>17-52 ... 17th through 52nd Week of Gestation<br>99 ... Not Stated  |
| 95-96                    | 2                     | <u>Gestation Recode 10(*)</u><br>01 ... Under 20 Weeks<br>02 ... 20-27 Weeks<br>03 ... 28-31 Weeks<br>04 ... 32-35 Weeks<br>05 ... 36 Weeks<br>06 ... 37-39 Weeks<br>07 ... 40 Weeks<br>08 ... 41 Weeks<br>09 ... 42 Weeks and over<br>10 ... Not Stated |
| 97                       | 1                     | <u>Gestation Recode 3(*)</u><br>1 ... Under 37 Weeks<br>2 ... 37 Weeks and Over<br>3 ... Not Stated  |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|       |   |                                    |
|-------|---|------------------------------------|
| 98-99 | 2 | <u>Mother's Education - Detail</u> |
|-------|---|------------------------------------|

|                                      |
|--------------------------------------|
| 00-08 ... 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 and Over |
| 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        |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|         |   |                                    |
|---------|---|------------------------------------|
| 103-104 | 2 | <u>Father's Education - Detail</u> |
|---------|---|------------------------------------|

|                                      |
|--------------------------------------|
| 00-08 ... 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 and Over |
| 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                     |



| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

109

1

Detail Month of Pregnancy Prenatal Care Began

1 ... 1st Month of Pregnancy  
2 ... 2nd Month of Pregnancy  
3 ... 3rd Month of Pregnancy  
4 ... 4th Month of Pregnancy  
5 ... 5th Month of Pregnancy  
6 ... 6th Month of Pregnancy  
7 ... 7th Month of Pregnancy  
8 ... 8th Month of Pregnancy  
9 ... 9th Month of Pregnancy  
0 ... No Prenatal Care  
- ... Not Stated

110-111

2

Month Prenatal Care Began Recode 10(\*)

01 ... 1st & 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

Month Prenatal Care Began Recode 6(\*)

1 ... 1st - 2nd Month  
2 ... 3rd Month  
3 ... 4th - 6th Month  
4 ... 7th - 9th Month  
5 ... No Prenatal Care  
6 ... Not Stated

| Tape<br>Location | Field<br>Size |  |
|------------------|---------------|--|
| 113-116          | 4             | <u>DATE OF LAST LIVE BIRTH</u>                         |
|                  |               | 7777 ... No Previous Live Birth                        |
| 113-114          | 2             | <u>Month</u>   |
|                  |               | 01-12 ... January thru December                        |
|                  |               | 99 ... Not Stated                                      |
| 115-116          | 2             | <u>Year</u>  |
|                  |               | 00-79 ... Stated Year                                  |
|                  |               | 99 ... Not Stated                                      |
| 117-119          | 3             | <u>Detail Months Interval Since Last Live Birth(*)</u> |
|                  |               | 000 ... Zero Months (Plural Birth)                     |
|                  |               | 001 ... One Month                                      |
|                  |               | 002 ... Two Months                                     |
|                  |               | etc. thru  |
|                  |               | 500 ... 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                                      |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|         |   |   |
|---------|---|---|
| 122-123 | 2 | <u>Interval Since Last Live Birth Recode 10(*)</u><br>00 ... Not Applicable (No Previous Live Birth)<br>01 ... Zero Months (Plural Birth)<br>02 ... 1-11 Months<br>03 ... 12-17 Months<br>04 ... 18-23 Months<br>05 ... 24-35 Months<br>06 ... 36-47 Months<br>07 ... 48-59 Months<br>08 ... 60-71 Months<br>09 ... 72 Months and Over<br>10 ... Not Stated |
|---------|---|---|

|     |   |   |
|-----|---|---|
| 124 | 1 | <u>Interval Since Last Live Birth Recode 8(*)</u><br>0 ... Not Applicable (No Previous Live Birth)<br>1 ... Zero Months (Plural Birth)<br>2 ... 1-11 Months<br>3 ... 12-23 Months<br>4 ... 24-35 Months<br>5 ... 36-47 Months<br>6 ... 48-71 Months<br>7 ... 72 Months and Over<br>8 ... Not Stated |
|-----|---|---|

|         |   |  |
|---------|---|--|
| 125-128 | 4 | <u>DATE OF LAST OTHER TERMINATION</u><br>7777 ... No Previous Other Terminations |
|---------|---|--|

|         |   |  |
|---------|---|--|
| 125-126 | 2 | <u>Month</u><br>01-12 ... January thru December<br>99 ... Not Stated |
|---------|---|--|

|         |   |   |
|---------|---|---|
| 127-128 | 2 | <u>Year</u><br>00-79 ... Stated Year<br>99 ... Not Stated |
|---------|---|---|

|     |   |                                   |
|-----|---|-----------------------------------|
| 129 | 1 | Used for Internal Processing Only |
|-----|---|-----------------------------------|

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|         |   |  |
|---------|---|--|
| 130-132 | 3 | <u>Detail Interval Since Last Other Termination(*)</u> |
|---------|---|--|

000 ... Zero Months (Plural Delivery)  
001 ... One Month  
002 ... Two Months  
etc. thru  
500 ... 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 ... One Month  
002 ... Two Months  
etc. thru  
500 ... Five Hundred Months  
999 ... Not Stated  
777 ... No Previous Pregnancy

|     |   |   |
|-----|---|---|
| 136 | 1 | <u>Interval Since Termination of Last Pregnancy</u><br><u>Recode 9(*)</u> |
|-----|---|---|

0 ... Not Applicable (No Previous Pregnancies)  
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, Live Birth  
2 ... Last Pregnancy, Other Termination  
3 ... Last Pregnancy, Outcome Unknown

| Tape<br>Location | Field<br>Size |   |
|------------------|---------------|---|
| 138-139          | 2             | <u>Mother's Place of Birth</u> (See Appendix A)<br><br>01-51 ... 50 States and District of Columbia in<br>alphabetical sequence.<br>52 ... Puerto Rico<br>53 ... Virgin Islands<br>54 ... Guam<br>55 ... Canada<br>56 ... Cuba<br>57 ... Mexico<br>59 ... Remainder of World<br>99 ... Not Classifiable |
| 140-141          | 2             | <u>Total Number of Prenatal Visits</u><br><br>00 ... No Prenatal Visits<br>01-49 ... Stated Number of Visits<br>99 ... Not Stated Number of Visits  |
| 142              | 1             | Used for Internal Processing Only   |
| 143-145          | 3             | <u>Reserved Positions</u>   |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

146-160

15

REPORTING FLAGS FOR PLACE OF RESIDENCE:

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.

OR

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>           |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|         |    |   |
|---------|----|---|
| 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> |
|-----|---|---|

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



| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

187-188

2

Origin or Descent of Mother

Hispanic, Non-Hispanic Origin (Code 2 in Pos. 170)

- 00 ... Non-Spanish
- 01 ... Mexican
- 02 ... Puerto Rican
- 03 ... Cuban
- 04 ... Central or South American
- 05 ... Other and Unknown Spanish

Detail Ethnicity (Code 1 in Pos. 170)

- 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)

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

189-190

2

Origin or Descent of Father

Hispanic, Non-Hispanic Origin (Code 2 in Pos. 170)

- 00 ... Non-Spanish
- 01 ... Mexican
- 02 ... Puerto Rican
- 03 ... Cuban
- 04 ... Central or South American
- 05 ... Other and Unknown Spanish

Detail Ethnicity (Code 1 in Pos. 170)

- 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)

| Tape<br>Location | Field<br>Size |  |
|------------------|---------------|--|
| 191-207          | 17            | <u>Reserved Positions</u>  |
| 208              | 1             | <u>Record Weight</u>   |
|                  |               | 1 ... 100% data records<br>2 ... 50% data records  |
| 209-210          | 2             | <u>Number of Prenatal Visits Recode 28(*)</u>  |
|                  |               | 01 ... No Prenatal Visits<br>02 ... 1 Visit<br>03 ... 2 Visits<br>04 ... 3 Visits<br>05 ... 4 Visits<br>06 ... 5 Visits<br>07 ... 6 Visits<br>08 ... 7 Visits<br>09 ... 8 Visits<br>10 ... 9 Visits<br>11 ...10 Visits<br>12 ...11 Visits<br>13 ...12 Visits<br>14 ...13 Visits<br>15 ...14 Visits<br>16 ...15 Visits<br>17 ...16 Visits<br>18 ...17 Visits<br>19 ...18 Visits<br>20 ...19 Visits<br>21 ...20 Visits<br>22 ...21 Visits<br>23 ...22 Visits<br>24 ...23 Visits<br>25 ...24 Visits<br>26 ...25 Visits<br>27 ...26 Visits<br>28 ...Not Stated |

| Tape<br>Location | Field<br>Size |
|------------------|---------------|
|------------------|---------------|

|         |   |   |
|---------|---|---|
| 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 | Reserved Positions |
|---------|---|--------------------|

## 1979 NATALITY

## NCHS/DVS STATE NAMES AND CODES

States Marked with an X Submit Data on a 100 Percent Basis <sup>1/</sup>

| STATE NAME           | STATE CODE | 100% STATES |
|----------------------|------------|-------------|
| Alabama              | 01         | X           |
| Alaska               | 02         | X           |
| Arizona              | 03         |             |
| Arkansas             | 04         |             |
| California           | 05         |             |
| Colorado             | 06         | X           |
| Connecticut          | 07         | X           |
| Delaware             | 08         |             |
| District of Columbia | 09         |             |
| Florida              | 10         | X           |
| Georgia              | 11         |             |
| Hawaii               | 12         | X           |
| Idaho                | 13         | X           |
| Illinois             | 14         | X           |
| Indiana              | 15         | X           |
| Iowa                 | 16         | X           |
| Kansas               | 17         | X           |
| Kentucky             | 18         | X           |
| Louisiana            | 19         | X           |
| Maine                | 20         | X           |
| Maryland             | 21         | X           |
| Massachusetts        | 22         | X           |
| Michigan             | 23         | X           |
| Minnesota            | 24         | X           |
| Mississippi          | 25         | X           |
| Missouri             | 26         | X           |
| Montana              | 27         | X           |
| Nebraska             | 28         | X           |
| Nevada               | 29         | X           |
| New Hampshire        | 30         | X           |
| New Jersey           | 31         | X           |
| New Mexico           | 32         |             |
| New York             | 33         | X           |
| North Carolina       | 34         | X           |
| North Dakota         | 35         |             |
| Ohio                 | 36         | X           |
| Oklahoma             | 37         | X           |
| Oregon               | 38         | X           |
| Pennsylvania         | 39         | X           |
| Rhode Island         | 40         | X           |
| South Carolina       | 41         | X           |
| South Dakota         | 42         |             |
| Tennessee            | 43         | X           |
| Texas                | 44         | X           |
| Utah                 | 45         | X           |
| Vermont              | 46         | X           |
| Virginia             | 47         | X           |
| Washington           | 48         | X           |
| West Virginia        | 49         | X           |
| Wisconsin            | 50         | X           |
| Wyoming              | 51         | X           |

<sup>1/</sup> Tape location 208 contains a record weight which inflates tabular totals to the national birth figures. For 100 percent States, the weight is 1 and for 50 percent States, the weight is a 2.

1970 GEOGRAPHIC CODESSTANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR NCHS

(Effective with 1970 data)

| <u>SMSA<br/>CODE</u> | <u>STATE AND<br/>COUNTY CODE</u> | <u>SMSA NAME AND COUNTY COMPONENTS</u>        |
|----------------------|----------------------------------|---|
| <u>001</u>           |                                  | <u>ABILENE, TEXAS</u>                         |
|                      | 44 127.                          | Jones County                                  |
|                      | 44 221.                          | Taylor County                                 |
| <u>002</u>           |                                  | <u>AKRON, OHIO</u>                            |
|                      | 36 067.                          | Portage County                                |
|                      | 36 077.                          | Summit County                                 |
| <u>003</u>           |                                  | <u>ALBANY, GA.</u>                            |
|                      | 11 047.                          | Dougherty County                              |
| <u>004</u>           |                                  | <u>ALBANY-SCHENECTADY-TROY, N.Y.</u>          |
|                      | 33 001.                          | Albany County                                 |
|                      | 33 039.                          | Rensselaer County                             |
|                      | 33 042.                          | Saratoga County                               |
|                      | 33 043.                          | Schenectady County                            |
| <u>005</u>           |                                  | <u>ALBUQUERQUE, N. MEX.</u>                   |
|                      | 32 001.                          | Bernalillo County                             |
| <u>006</u>           |                                  | <u>ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J.</u>   |
|                      | 39 039.                          | Lehigh County, PA.                            |
|                      | 39 048.                          | Northampton County, PA.                       |
|                      | 31 021.                          | Warren County, N.J.                           |
| <u>007</u>           |                                  | <u>ALTOONA, PA.</u>                           |
|                      | 39 007.                          | Blair County                                  |
| <u>008</u>           |                                  | <u>AMARILLO, TEXAS</u>                        |
|                      | 44 188.                          | Potter County                                 |
|                      | 44 191.                          | Randall County                                |
| <u>009</u>           |                                  | <u>ANAHEIM-SANTA ANA-GARDEN GROVE, CALIF.</u> |
|                      | 05 030.                          | Orange County                                 |

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|----------------------|----------------------------------|--|
| <u>010</u>           |                                  | <u>ANDERSON, IND.</u>                  |
|                      | 15 048.                          | Madison County                         |
| <u>011</u>           |                                  | <u>ANN ARBOR, MICH.</u>                |
|                      | 23 081.                          | Washtenaw County                       |
| <u>012</u>           |                                  | <u>APPLETON-OSHKOSH, WIS.</u>          |
|                      | 50 008.                          | Calumet County                         |
|                      | 50 045.                          | Outagamie County                       |
|                      | 50 071.                          | Winnebago County                       |
| <u>013</u>           |                                  | <u>ASHEVILLE, N.C.</u>                 |
|                      | 34 011.                          | Buncombe County                        |
| <u>014</u>           |                                  | <u>ATLANTA, GA.</u>                    |
|                      | 11 031.                          | Clayton County                         |
|                      | 11 033.                          | Cobb County                            |
|                      | 11 044.                          | De Kalb County                         |
|                      | 11 060.                          | Fulton County                          |
|                      | 11 067.                          | Gwinnett County                        |
| <u>015</u>           |                                  | <u>ATLANTIC CITY, N.J.</u>             |
|                      | 31 001.                          | Atlantic County                        |
| <u>016</u>           |                                  | <u>AUGUSTA, GA. - S.C.</u>             |
|                      | 11 121.                          | Richmond County, GA.                   |
|                      | 41 002.                          | Aiken County, S.C.                     |
| <u>017</u>           |                                  | <u>AUSTIN, TEXAS</u>                   |
|                      | 44 227.                          | Travis County                          |
| <u>018</u>           |                                  | <u>BAKERSFIELD, CALIF.</u>             |
|                      | 05 015.                          | Kern County                            |

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|----------------------|----------------------------------|---|
| <u>019</u>           |                                  | <u>BALTIMORE, MD.</u>                     |
|                      | 21 002.                          | Anne Arundel County                       |
|                      | 21 003.                          | Baltimore County                          |
|                      | 21 007.                          | Carroll County                            |
|                      | 21 013.                          | Harford County                            |
|                      | 21 014.                          | Howard County                             |
|                      | 21 004.                          | Baltimore City                            |
| <u>020</u>           |                                  | <u>BATON ROUGE, LA.</u>                   |
|                      | 19 017.                          | East Baton Rouge Parish                   |
| <u>021</u>           |                                  | <u>BAY CITY MICH.</u>                     |
|                      | 23 009.                          | Bay County                                |
| <u>022</u>           |                                  | <u>BEAUMONT-PORT ARTHUR-ORANGE, TEXAS</u> |
|                      | 44 123.                          | Jefferson County                          |
|                      | 44 181.                          | Orange County                             |
| <u>023</u>           |                                  | <u>BILLINGS, MONT.</u>                    |
|                      | 27 056.                          | Yellowstone County                        |
| <u>024</u>           |                                  | <u>BILOXI-GULFPORT, MISS.</u>             |
|                      | 25 024.                          | Harrison County                           |
| <u>025</u>           |                                  | <u>BINGHAMTON, N.Y. - PA.</u>             |
|                      | 33 003.                          | Broome County, N.Y.                       |
|                      | 33 050.                          | Tioga County, N.Y.                        |
|                      | 39 058.                          | Susquehanna County, PA.                   |
| <u>026</u>           |                                  | <u>BIRMINGHAM, ALA.</u>                   |
|                      | 01 037.                          | Jefferson County                          |
|                      | 01 059.                          | Shelby County                             |
|                      | 01 064.                          | Walker County                             |



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|----------------------|----------------------------------|--|
| <u>027</u>           |                                  | <u>BLOOMINGTON-NORMAL, ILL.</u>                  |
|                      | 14 057.                          | McLean County                                    |
| <u>028</u>           |                                  | <u>BOISE CITY, IDAHO</u>                         |
|                      | 13 001.                          | Ada County                                       |
| <u>029</u>           |                                  | <u>BOSTON-LOWELL-LAWRENCE, MASS. (MSEA)</u>      |
|                      | 22 005.                          | Essex County                                     |
|                      | 22 009.                          | Middlesex County                                 |
|                      | 22 011.                          | Norfolk County                                   |
|                      | 22 013.                          | Suffolk County                                   |
| <u>030</u>           |                                  | <u>BRIDGEPORT-STAMFORD-NORWALK, CONN. (MSEA)</u> |
|                      | 07 001.                          | Fairfield County                                 |
| <u>031</u>           |                                  | <u>BROCKTON, MASS. (MSEA)</u>                    |
|                      | 22 012.                          | Plymouth County                                  |
| <u>032</u>           |                                  | <u>BROWNSVILLE-HARLINGEN-SAN BENITO, TEXAS</u>   |
|                      | 44 031.                          | Cameron County                                   |
| <u>033</u>           |                                  | <u>BRYAN-COLLEGE STATION, TEXAS</u>              |
|                      | 44 021.                          | Brazos County                                    |
| <u>034</u>           |                                  | <u>BUFFALO, N.Y.</u>                             |
|                      | 33 014.                          | Erie County                                      |
|                      | 33 030.                          | Niagara County                                   |
| <u>035</u>           |                                  | <u>CANTON, OHIO</u>                              |
|                      | 36 076.                          | Stark County                                     |
| <u>036</u>           |                                  | <u>CEDAR RAPIDS, IOWA</u>                        |
|                      | 16 057.                          | Linn County                                      |
| <u>037</u>           |                                  | <u>CHAMPAIGN-URBANA, ILL.</u>                    |
|                      | 14 010                           | Champaign County                                 |

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|----------------------|----------------------------------|--|
| <u>038</u>           |                                  | <u>CHARLESTON, S.C.</u>                |
|                      | 41 008.                          | Berkeley County                        |
|                      | 41 010.                          | Charleston County                      |
| <u>039</u>           |                                  | <u>CHARLESTON, W. VA.</u>              |
|                      | 49 020.                          | Kanawha County                         |
| <u>040</u>           |                                  | <u>CHARLOTTE, N.C.</u>                 |
|                      | 34 060.                          | Mecklenburg County                     |
|                      | 34 090.                          | Union County                           |
| <u>041</u>           |                                  | <u>CHATTANOOGA, TENN. - GA.</u>        |
|                      | 43 033.                          | Hamilton County, Tenn.                 |
|                      | 11 146.                          | Walker County, Ga.                     |
| <u>042</u>           |                                  | <u>CHICAGO, ILL.</u>                   |
|                      | 14 016.                          | Cook County                            |
|                      | 14 022.                          | Du Page County                         |
|                      | 14 045.                          | Kane County                            |
|                      | 14 049.                          | Lake County                            |
|                      | 14 056.                          | McHenry County                         |
|                      | 14 099.                          | Will County                            |
| <u>043</u>           |                                  | <u>CINCINNATI, OHIO-KY. - IND.</u>     |
|                      | 36 013.                          | Clermont County, Ohio                  |
|                      | 36 031.                          | Hamilton County, Ohio                  |
|                      | 36 083.                          | Warren County, Ohio                    |
|                      | 15 015.                          | Dearborn County, Ind.                  |
|                      | 18 008.                          | Boone County, Ky.                      |
|                      | 18 019.                          | Campbell County, Ky.                   |
|                      | 18 059.                          | Kenton County, Ky.                     |
| <u>044</u>           |                                  | <u>CLEVELAND, OHIO</u>                 |
|                      | 36 018.                          | Cuyahoga County                        |
|                      | 36 028.                          | Geauga County                          |
|                      | 36 043.                          | Lake County                            |
|                      | 36 052.                          | Medina County                          |

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| <u>045</u>           |                                  | <u>COLORADO SPRINGS, COLO.</u>                 |
|                      | 06 021.                          | El Paso County                                 |
| <u>046</u>           |                                  | <u>COLUMBIA, MO.</u>                           |
|                      | 26 010.                          | Boone County                                   |
| <u>047</u>           |                                  | <u>COLUMBIA, S.C.</u>                          |
|                      | 41 032.                          | Lexington County                               |
|                      | 41 040.                          | Richland County                                |
| <u>048</u>           |                                  | <u>COLUMBUS, GA. - ALA.</u>                    |
|                      | 11 026.                          | Chattahoochee County, Ga.                      |
|                      | 11 106.                          | Muscogee County, Ga.                           |
|                      | 01 057.                          | Russell County, Ala.                           |
| <u>049</u>           |                                  | <u>COLUMBUS, OHIO</u>                          |
|                      | 36 021.                          | Delaware County                                |
|                      | 36 025.                          | Franklin County                                |
|                      | 36 065.                          | Pickaway County                                |
| <u>050</u>           |                                  | <u>CORPUS CHRISTI, TEXAS</u>                   |
|                      | 44 178.                          | Nueces County                                  |
|                      | 44 205.                          | San Patricio County                            |
| <u>051</u>           |                                  | <u>DALLAS, TEXAS</u>                           |
|                      | 44 043.                          | Collin County                                  |
|                      | 44 057.                          | Dallas County                                  |
|                      | 44 061.                          | Denton County                                  |
|                      | 44 070.                          | Ellis County                                   |
|                      | 44 129.                          | Kaufman County                                 |
|                      | 44 199.                          | Rockwall County                                |
| <u>052</u>           |                                  | <u>DAVENPORT-ROCK ISLAND-MOLINE, IOWA-ILL.</u> |
|                      | 16 082.                          | Scott County, Iowa                             |
|                      | 14 037.                          | Henry County, Ill.                             |
|                      | 14 081.                          | Rock Island County, Ill.                       |

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|----------------------|----------------------------------|--|
| <u>053</u>           |                                  | <u>DAYTON, OHIO</u>                    |
|                      | 36 029.                          | Greene County                          |
|                      | 36 055.                          | Miami County                           |
|                      | 36 057.                          | Montgomery County                      |
|                      | 36 068.                          | Preble County                          |
| <u>054</u>           |                                  | <u>DECATUR, ILL.</u>                   |
|                      | 14 058.                          | Macon County                           |
| <u>055</u>           |                                  | <u>DENVER, COLO.</u>                   |
|                      | 06 001.                          | Adams County                           |
|                      | 06 003.                          | Arapahoe County                        |
|                      | 06 007.                          | Boulder County                         |
|                      | 06 016.                          | Denver County (Coext)                  |
|                      | 06 030.                          | Jefferson County                       |
| <u>056</u>           |                                  | <u>DES MOINES, IOWA</u>                |
|                      | 16 077.                          | Polk County                            |
| <u>057</u>           |                                  | <u>DETROIT, MICH.</u>                  |
|                      | 23 050.                          | Macomb County                          |
|                      | 23 063.                          | Oakland County                         |
|                      | 23 082.                          | Wayne County                           |
| <u>058</u>           |                                  | <u>DUBUQUE, IOWA</u>                   |
|                      | 16 031.                          | Dubuque County                         |
| <u>059</u>           |                                  | <u>DULUTH-SUPERIOR, MINN. - WIS.</u>   |
|                      | 24 069.                          | St. Louis County, Minn.                |
|                      | 50 016.                          | Douglas County, Wis.                   |
| <u>060</u>           |                                  | <u>DURHAM, N.C.</u>                    |
|                      | 34 032.                          | Durham County                          |
|                      | 34 068.                          | Orange County                          |
| <u>061</u>           |                                  | <u>EL PASO, TEXAS</u>                  |
|                      | 44 071.                          | El Paso County                         |

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|----------------------|----------------------------------|---|
| <u>062</u>           |                                  | <u>ERIE, PA.</u>                            |
|                      | 39 025.                          | Erie County                                 |
| <u>063</u>           |                                  | <u>EUGENE, OREG.</u>                        |
|                      | 38 020.                          | Lane County                                 |
| <u>064</u>           |                                  | <u>EVANSVILLE, IND. - KY.</u>               |
|                      | 15 082.                          | Vanderburgh County, Ind.                    |
|                      | 15 087.                          | Warrick County, Ind.                        |
|                      | 18 051.                          | Henderson County, Ky.                       |
| <u>065</u>           |                                  | <u>FALL RIVER-NEW BEDFORD, MASS. (MSEA)</u> |
|                      | 22 003.                          | Bristol County                              |
| <u>066</u>           |                                  | <u>FARGO-MOORHEAD, N. DAK. - MINN.</u>      |
|                      | 35 009.                          | Cass County, N. Dak.                        |
|                      | 24 014.                          | Clay County, Minn.                          |
| <u>067</u>           |                                  | <u>FAYETTEVILLE, N.C.</u>                   |
|                      | 34 026.                          | Cumberland County                           |
| <u>068</u>           |                                  | <u>FLINT, MICH.</u>                         |
|                      | 23 025.                          | Genesee County                              |
|                      | 23 044.                          | Lapeer County                               |
| <u>069</u>           |                                  | <u>FORT LAUDERDALE-HOLLYWOOD, FLA.</u>      |
|                      | 10 006.                          | Broward County                              |
| <u>070</u>           |                                  | <u>FORT SMITH, ARK. - OKLA.</u>             |
|                      | 04 017.                          | Crawford County, Ark.                       |
|                      | 04 066.                          | Sebastion County, Ark.                      |
|                      | 37 040.                          | Le Flore County, Okla.                      |
|                      | 37 068.                          | Sequoyah County, Okla.                      |
| <u>071</u>           |                                  | <u>FORT WAYNE, IND.</u>                     |
|                      | 15 002.                          | Allen County                                |

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| <u>072</u>           |                                  | <u>FORT WORTH, TEXAS</u>               |
|                      | 44 126.                          | Johnson County                         |
|                      | 44 220.                          | Tarrant County                         |
| <u>073</u>           |                                  | <u>FRESNO, CALIF.</u>                  |
|                      | 05 010.                          | Fresno County                          |
| <u>074</u>           |                                  | <u>GADSDEN, ALA.</u>                   |
|                      | 01 028.                          | Etowah County                          |
| <u>075</u>           |                                  | <u>GAINESVILLE, FLA.</u>               |
|                      | 10 001.                          | Alachua County                         |
| <u>076</u>           |                                  | <u>GALVESTON-TEXAS CITY, TEXAS</u>     |
|                      | 44 084.                          | Galveston County                       |
| <u>077</u>           |                                  | <u>GARY-HAMMOND-EAST CHICAGO, IND.</u> |
|                      | 15 045.                          | Lake County                            |
|                      | 15 064.                          | Porter County                          |
| <u>078</u>           |                                  | <u>GRAND RAPIDS, MICH.</u>             |
|                      | 23 041.                          | Kent County                            |
|                      | 23 070.                          | Ottawa County                          |
| <u>079</u>           |                                  | <u>GREAT FALLS, MONT.</u>              |
|                      | 27 007.                          | Cascade County                         |
| <u>080</u>           |                                  | <u>GREEN BAY, WIS.</u>                 |
|                      | 50 005.                          | Brown County                           |

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| <u>081</u>           |                                  | <u>GREENSBORO-WINSTON SALEM-HIGH POINT, N.C.</u>  |
|                      | 34 034.                          | Forsyth County                                    |
|                      | 34 041.                          | Guilford County                                   |
|                      | 34 076.                          | Randolph County                                   |
|                      | 34 099.                          | Yadkin County                                     |
| <u>082</u>           |                                  | <u>GREENVILLE, S.C.</u>                           |
|                      | 41 023.                          | Greenville County                                 |
|                      | 41 039.                          | Pickens County                                    |
| <u>083</u>           |                                  | <u>HAMILTON-MIDDLETOWN, OHIO</u>                  |
|                      | 36 009.                          | Butler County                                     |
| <u>084</u>           |                                  | <u>HARRISBURG, PA.</u>                            |
|                      | 39 021.                          | Cumberland County                                 |
|                      | 39 022.                          | Dauphin County                                    |
|                      | 39 050.                          | Perry County                                      |
| <u>085</u>           |                                  | <u>HARTFORD-NEW BRITAIN-BRISTOL, CONN. (MSEA)</u> |
|                      | 07 002.                          | Hartford County                                   |
| <u>086</u>           |                                  | <u>HONOLULU, HAWAII</u>                           |
|                      | 12 002.                          | Honolulu County                                   |
| <u>087</u>           |                                  | <u>HOUSTON, TEXAS</u>                             |
|                      | 44 020.                          | Brazoria County                                   |
|                      | 44 079.                          | Fort Bend County                                  |
|                      | 44 101.                          | Harris County                                     |
|                      | 44 146.                          | Liberty County                                    |
|                      | 44 170.                          | Montgomery County                                 |
| <u>088</u>           |                                  | <u>HUNTINGTON-ASHLAND, W.VA.-KY.-OHIO</u>         |
|                      | 49 006.                          | Cabell County, W. VA.                             |
|                      | 49 050.                          | Wayne County, W. VA.                              |
|                      | 36 044.                          | Lawrence County, Ohio                             |
|                      | 18 010.                          | Boyd County, Ky.                                  |

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| <u>089</u>           |                                  | <u>HUNTSVILLE, ALA.</u>                |
|                      | 01 042.                          | Limestone County                       |
|                      | 01 045.                          | Madison County                         |
| <u>090</u>           |                                  | <u>INDIANAPOLIS, IND.</u>              |
|                      | 15 006.                          | Boone County                           |
|                      | 15 029.                          | Hamilton County                        |
|                      | 15 030.                          | Hancock County                         |
|                      | 15 032.                          | Hendricks County                       |
|                      | 15 041.                          | Johnson County                         |
|                      | 15 049.                          | Marion County                          |
|                      | 15 055.                          | Morgan County                          |
|                      | 15 073.                          | Shelby County                          |
| <u>091</u>           |                                  | <u>JACKSON, MICH.</u>                  |
|                      | 23 038.                          | Jackson County                         |
| <u>092</u>           |                                  | <u>JACKSON, MISS.</u>                  |
|                      | 25 025.                          | Hinds County                           |
|                      | 25 061.                          | Rankin County                          |
| <u>093</u>           |                                  | <u>JACKSONVILLE, FLA.</u>              |
|                      | 10 016.                          | Duval-Jacksonville Coext.              |
| <u>094</u>           |                                  | <u>JERSEY CITY, N.J.</u>               |
|                      | 31 009.                          | Hudson County                          |
| <u>095</u>           |                                  | <u>JOHNSTOWN, PA.</u>                  |
|                      | 39 011.                          | Cambria County                         |
|                      | 39 056.                          | Somerset County                        |
| <u>096</u>           |                                  | <u>KALAMAZOO, MICH.</u>                |
|                      | 23 039.                          | Kalamazoo County                       |



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| <u>097</u>           |                                  | <u>KANSAS CITY, MO.,-KANS.</u>         |
|                      | 26 019.                          | Cass County, Mo.                       |
|                      | 26 024.                          | Clay County, Mo.                       |
|                      | 26 048.                          | Jackson County, Mo.                    |
|                      | 26 083.                          | Platte County, Mo.                     |
|                      | 17 046.                          | Johnson County, Kans.                  |
|                      | 17 105.                          | Wyandotte County, Kans.                |
| <u>098</u>           |                                  | <u>KENOSHA, WIS.</u>                   |
|                      | 50 030.                          | Kenosha County                         |
| <u>099</u>           |                                  | <u>KNOXVILLE, TENN.</u>                |
|                      | 43 001.                          | Anderson County                        |
|                      | 43 005.                          | Blount County                          |
|                      | 43 047.                          | Knox County                            |
| <u>100</u>           |                                  | <u>LA CROSSE, WIS.</u>                 |
|                      | 50 032.                          | La Crosse County                       |
| <u>101</u>           |                                  | <u>LAFAYETTE, LA.</u>                  |
|                      | 19 028                           | Lafayette Parish                       |
| <u>102</u>           |                                  | <u>LAFAYETTE-WEST LAFAYETTE, IND.</u>  |
|                      | 15 079.                          | Tippecanoe County                      |
| <u>103</u>           |                                  | <u>LAKE CHARLES, LA.</u>               |
|                      | 19 010.                          | Calcasieu Parish                       |
| <u>104</u>           |                                  | <u>LANCASTER, PA.</u>                  |
|                      | 39 036.                          | Lancaster County                       |
| <u>105</u>           |                                  | <u>LANSING, MICH.</u>                  |
|                      | 23 019.                          | Clinton County                         |
|                      | 23 023.                          | Eaton County                           |
|                      | 23 033.                          | Ingham County                          |

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| <u>106</u>           |                                  | <u>LAREDO, TEXAS</u>                       |
|                      | 44 240.                          | Webb County                                |
| <u>107</u>           |                                  | <u>LAS VEGAS, NEV.</u>                     |
|                      | 29 002.                          | Clark County                               |
| <u>108</u>           |                                  | <u>LAWTON, OKLA.</u>                       |
|                      | 37 016.                          | Comanche County                            |
| <u>109</u>           |                                  | <u>LEXINGTON, KY.</u>                      |
|                      | 18 034.                          | Fayette County                             |
| <u>110</u>           |                                  | <u>LIMA, OHIO</u>                          |
|                      | 36 002.                          | Allen County                               |
|                      | 36 069.                          | Putnam County                              |
|                      | 36 081.                          | Van Wert County                            |
| <u>111</u>           |                                  | <u>LINCOLN, NEBR.</u>                      |
|                      | 28 055.                          | Lancaster County                           |
| <u>112</u>           |                                  | <u>LITTLE ROCK-NORTH LITTLE ROCK, ARK.</u> |
|                      | 04 060.                          | Pulaski County                             |
|                      | 04 063.                          | Saline County                              |
| <u>113</u>           |                                  | <u>LORAIN-ELYRIA, OHIO</u>                 |
|                      | 36 047.                          | Lorain County                              |
| <u>114</u>           |                                  | <u>LOS ANGELES-LONG BEACH, CALIF.</u>      |
|                      | 05 019.                          | Los Angeles County                         |
| <u>115</u>           |                                  | <u>LOUISVILLE, KY. - IND.</u>              |
|                      | 18 056.                          | Jefferson County, Ky.                      |
|                      | 15 010.                          | Clark County, Ind.                         |
|                      | 15 022.                          | Floyd County, Ind.                         |

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| <u>116</u>           |                                  | <u>LUBBOCK, TEXAS</u>                  |
|                      | 44 152.                          | Lubbock County                         |
| <u>117</u>           |                                  | <u>LYNCHBURG, VA.</u>                  |
|                      | 47 015.                          | Amherst County                         |
|                      | 47 048.                          | Campbell County                        |
|                      | 47 360.                          | Lynchburg City                         |
| <u>118</u>           |                                  | <u>MACON, GA.</u>                      |
|                      | 11 011.                          | Bibb County                            |
|                      | 11 076.                          | Houston County                         |
| <u>119</u>           |                                  | <u>MADISON, WIS.</u>                   |
|                      | 50 013.                          | Dane County                            |
| <u>120</u>           |                                  | <u>MANCHESTER, N. H. (MSEA)</u>        |
|                      | 30 006.                          | Hillsborough County                    |
| <u>121</u>           |                                  | <u>MANSFIELD, OHIO</u>                 |
|                      | 36 070.                          | Richland County                        |
| <u>122</u>           |                                  | <u>MC ALLEN-PHARR-EDINBURG, TEXAS</u>  |
|                      | 44 108.                          | Hidalgo County                         |
| <u>123</u>           |                                  | <u>MEMPHIS, TENN.-ARK.</u>             |
|                      | 43 079.                          | Shelby County, Tenn.                   |
|                      | 04 018.                          | Crittenden County, Ark.                |
| <u>124</u>           |                                  | <u>MIAMI, FLA.</u>                     |
|                      | 10 013.                          | Dade County                            |
| <u>125</u>           |                                  | <u>MIDLAND, TEXAS</u>                  |
|                      | 44 165.                          | Midland County                         |

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| <u>126</u>           |                                  | <u>MILWAUKEE, WIS.</u>                  |
|                      | 50 041.                          | Milwaukee County                        |
|                      | 50 046.                          | Ozaukee County                          |
|                      | 50 067.                          | Washington County                       |
|                      | 50 068.                          | Waukesha County                         |
| <u>127</u>           |                                  | <u>MINNEAPOLIS-ST. PAUL, MINN.</u>      |
|                      | 24 002.                          | Anoka County                            |
|                      | 24 019.                          | Dakota County                           |
|                      | 24 027.                          | Hennepin County                         |
|                      | 24 062.                          | Ramsey County                           |
|                      | 24 082.                          | Washington County                       |
| <u>128</u>           |                                  | <u>MOBILE, ALA.</u>                     |
|                      | 01 002.                          | Baldwin County                          |
|                      | 01 049.                          | Mobile County                           |
| <u>129</u>           |                                  | <u>MODESTO, CALIF.</u>                  |
|                      | 05 050.                          | Stanislaus County                       |
| <u>130</u>           |                                  | <u>MONROE, LA.</u>                      |
|                      | 19 037.                          | Quachita Parish                         |
| <u>131</u>           |                                  | <u>MONTGOMERY, ALA.</u>                 |
|                      | 01 026.                          | Elmore County                           |
|                      | 01 051.                          | Montgomery County                       |
| <u>132</u>           |                                  | <u>MUNCIE, IND.</u>                     |
|                      | 15 018                           | Delaware County                         |
| <u>133</u>           |                                  | <u>MUSKEGON-MUSKEGON HEIGHTS, MICH.</u> |
|                      | 23 061.                          | Muskegon County                         |

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| <u>134</u>           |                                  | <u>NASHVILLE-DAVIDSON, TENN.</u>         |
|                      | 43 019.                          | Davidson-Nashville, Coext.               |
|                      | 43 083.                          | Sumner County                            |
|                      | 43 095.                          | Wilson County                            |
| <u>135</u>           |                                  | <u>NEW HAVEN-WATERBURY, CONN. (MSEA)</u> |
|                      | 07 005.                          | New Haven County                         |
| <u>136</u>           |                                  | <u>NEW ORLEANS, LA.</u>                  |
|                      | 19 026.                          | Jefferson Parish                         |
|                      | 19 036.                          | Orleans-New Orleans Coext.               |
|                      | 19 044.                          | St. Bernard Parish                       |
|                      | 19 052.                          | St. Tammany Parish                       |
| <u>137</u>           |                                  | <u>NEW YORK, N.Y.</u>                    |
|                      | 33 029.                          | New York City                            |
|                      | 33 028.                          | Nassau County                            |
|                      | 33 040.                          | Rockland County                          |
|                      | 33 048.                          | Suffolk County                           |
|                      | 33 056.                          | Westchester County                       |
| <u>138</u>           |                                  | <u>NEWARK, N.J.</u>                      |
|                      | 31 007.                          | Essex County                             |
|                      | 31 014.                          | Morris County                            |
|                      | 31 020.                          | Union County                             |
| <u>139</u>           |                                  | <u>NEWPORT NEWS-HAMPTON, VA.</u>         |
|                      | 47 294.                          | York County                              |
|                      | 47 348.                          | Hampton City                             |
|                      | 47 366.                          | Newport News City                        |
| <u>140</u>           |                                  | <u>NORFOLK-PORTSMOUTH, VA.</u>           |
|                      | 47 315.                          | Chesapeake City                          |
|                      | 47 369.                          | Norfolk City                             |
|                      | 47 378.                          | Portsmouth City                          |
|                      | 47 402.                          | Virginia Beach City                      |

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| <u>141</u>           |                                  | <u>ODESSA, TEXAS</u>                   |
|                      | 44 068.                          | Ector County                           |
| <u>142</u>           |                                  | <u>OGDEN, UTAH</u>                     |
|                      | 45 029.                          | Weber County                           |
| <u>143</u>           |                                  | <u>OKLAHOMA CITY, OKLA.</u>            |
|                      | 37 009.                          | Canadian County                        |
|                      | 37 014.                          | Cleveland County                       |
|                      | 37 055.                          | Oklahoma County                        |
| <u>144</u>           |                                  | <u>OMAHA, NEBR.-IOWA</u>               |
|                      | 28 028.                          | Douglas County, Nebr.                  |
|                      | 28 077.                          | Sarpy County, Nebr.                    |
|                      | 16 078.                          | Pottawattamie County, Iowa             |
| <u>145</u>           |                                  | <u>ORLANDO, FLA.</u>                   |
|                      | 10 048.                          | Orange County                          |
|                      | 10 059.                          | Seminole County                        |
| <u>146</u>           |                                  | <u>OWENSBORO, KY.</u>                  |
|                      | 18 030.                          | Daviess County                         |
| <u>147</u>           |                                  | <u>OXNARD-VENTURA, CALIF.</u>          |
|                      | 05 056.                          | Ventura County                         |
| <u>148</u>           |                                  | <u>PATTERSON-CLIFTON-PASSAIC, N.J.</u> |
|                      | 31 002.                          | Bergen County                          |
|                      | 31 016.                          | Passaic County                         |
| <u>149</u>           |                                  | <u>PENSACOLA, FLA.</u>                 |
|                      | 10 017.                          | Escambia County                        |
|                      | 10 057.                          | Santa Rosa County                      |

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| <u>150</u>           |                                  | <u>PEORIA, ILL.</u>                     |
|                      | 14 072.                          | Peoria County                           |
|                      | 14 090.                          | Tazewell County                         |
|                      | 14 102.                          | Woodford County                         |
| <u>151</u>           |                                  | <u>PETERSBURG-COLONIAL HEIGHTS, VA.</u> |
|                      | 47 081.                          | Dinwiddie County                        |
|                      | 47 222.                          | Prince George County                    |
|                      | 47 321.                          | Colonial Heights City                   |
|                      | 47 354.                          | Hopewell City                           |
|                      | 47 375.                          | Petersburg City                         |
| <u>152</u>           |                                  | <u>PHILADELPHIA, PA.- N.J.</u>          |
|                      | 39 009.                          | Bucks County, Pa.                       |
|                      | 39 015.                          | Chester County, Pa.                     |
|                      | 39 023.                          | Delaware County, Pa.                    |
|                      | 39 046.                          | Montgomery County, Pa.                  |
|                      | 39 051.                          | Philadelphia County, Pa.                |
|                      | 31 003.                          | Burlington County, N.J.                 |
|                      | 31 004.                          | Camden County, N.J.                     |
|                      | 31 008.                          | Gloucester County, N.J.                 |
| <u>153</u>           |                                  | <u>PHOENIX, ARIZ.</u>                   |
|                      | 03 007.                          | Maricopa County                         |
| <u>154</u>           |                                  | <u>PINE BLUFF, ARK.</u>                 |
|                      | 04 035.                          | Jefferson County                        |
| <u>155</u>           |                                  | <u>PITTSBURGH, PA.</u>                  |
|                      | 39 002.                          | Allegheny County                        |
|                      | 39 004.                          | Beaver County                           |
|                      | 39 063.                          | Washington County                       |
|                      | 39 065.                          | Westmoreland County                     |
| <u>156</u>           |                                  | <u>PITTSFIELD, MASS. (MSEA)</u>         |
|                      | 22 002.                          | Berkshire County                        |

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| <u>157</u>           |                                  | <u>PORTLAND, MAINE</u>                 |
|                      | 20 003.                          | Cumberland County                      |
| <u>158</u>           |                                  | <u>PORTLAND, OREG.-WASH.</u>           |
|                      | 38 003.                          | Clackamas County, Oreg.                |
|                      | 38 026.                          | Multnomah County, Oreg.                |
|                      | 38 034.                          | Washington County, Oreg.               |
|                      | 48 006.                          | Clark County, Wash.                    |
| <u>159</u>           |                                  | <u>PROVIDENCE, R.I.</u>                |
|                      | 40 001.                          | Bristol County                         |
|                      | 40 002.                          | Kent County                            |
|                      | 40 004.                          | Providence County                      |
| <u>160</u>           |                                  | <u>PROVO-OREM, UTAH</u>                |
|                      | 45 025.                          | Utah County                            |
| <u>161</u>           |                                  | <u>PUEBLO, COLO.</u>                   |
|                      | 06 051.                          | Pueblo County                          |
| <u>162</u>           |                                  | <u>RACINE, WIS.</u>                    |
|                      | 50 052.                          | Racine County                          |
| <u>163</u>           |                                  | <u>RALEIGH, N.C.</u>                   |
|                      | 34 092.                          | Wake County                            |
| <u>164</u>           |                                  | <u>READING, PA.</u>                    |
|                      | 39 006.                          | Berks County                           |
| <u>165</u>           |                                  | <u>RENO, NEV.</u>                      |
|                      | 29 016.                          | Washoe County                          |



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| <u>166</u>           |                                  | <u>RICHMOND, VA.</u>                   |
|                      | 47 063.                          | Chesterfield County                    |
|                      | 47 126.                          | Hanover County                         |
|                      | 47 129.                          | Henrico County                         |
|                      | 47 384.                          | Richmond City                          |
| <u>167</u>           |                                  | <u>ROANOKE, VA.</u>                    |
|                      | 47 240.                          | Roanoke County                         |
|                      | 47 387.                          | Roanoke City                           |
|                      | 47 390.                          | Salem City                             |
| <u>168</u>           |                                  | <u>ROCHESTER, MINN.</u>                |
|                      | 24 055.                          | Olmsted County                         |
| <u>169</u>           |                                  | <u>ROCHESTER, N.Y.</u>                 |
|                      | 33 024.                          | Livingston County                      |
|                      | 33 026.                          | Monroe County                          |
|                      | 33 035.                          | Orleans County                         |
|                      | 33 055.                          | Wayne County                           |
| <u>170</u>           |                                  | <u>ROCKFORD, ILL.</u>                  |
|                      | 14 004.                          | Boone County                           |
|                      | 14 101.                          | Winnebago County                       |
| <u>171</u>           |                                  | <u>SACRAMENTO, CALIF.</u>              |
|                      | 05 031.                          | Placer County                          |
|                      | 05 034.                          | Sacramento County                      |
|                      | 05 057.                          | Yolo County                            |
| <u>172</u>           |                                  | <u>SAGINAW, MICH.</u>                  |
|                      | 23 073.                          | Saginaw County                         |
| <u>173</u>           |                                  | <u>ST. JOSEPH, MO.</u>                 |
|                      | 26 011.                          | Buchanan County                        |

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| <u>174</u>           |                                  | <u>ST. LOUIS, MO. - ILL.</u>                    |
|                      | 26 036.                          | Franklin County, Mo.                            |
|                      | 26 050.                          | Jefferson County, Mo.                           |
|                      | 26 092.                          | St. Charles County, Mo.                         |
|                      | 26 095.                          | St. Louis County, Mo.                           |
|                      | 26 096.                          | St. Louis City, Mo.                             |
|                      | 14 060.                          | Madison County, Ill.                            |
|                      | 14 082.                          | St. Clair County, Ill.                          |
| <u>175</u>           |                                  | <u>SALEM, OREG.</u>                             |
|                      | 38 024.                          | Marion County                                   |
|                      | 38 027.                          | Polk County                                     |
| <u>176</u>           |                                  | <u>SALINAS-MONTEREY, CALIF.</u>                 |
|                      | 05 027.                          | Monterey County                                 |
| <u>177</u>           |                                  | <u>SALT LAKE CITY, UTAH</u>                     |
|                      | 45 006.                          | Davis County                                    |
|                      | 45 018.                          | Salt Lake County                                |
| <u>178</u>           |                                  | <u>SAN ANGELO, TEXAS</u>                        |
|                      | 44 226.                          | Tom Green County                                |
| <u>179</u>           |                                  | <u>SAN ANTONIO, TEXAS</u>                       |
|                      | 44 015.                          | Bexar County                                    |
|                      | 44 094.                          | Guadalupe County                                |
| <u>180</u>           |                                  | <u>SAN BERNARDINO-RIVERSIDE-ONTARIO, CALIF.</u> |
|                      | 05 033.                          | Riverside County                                |
|                      | 05 036.                          | San Bernardino County                           |
| <u>181</u>           |                                  | <u>SAN DIEGO, CALIF.</u>                        |
|                      | 05 037.                          | San Diego County                                |

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| <u>182</u>           |                                  | <u>SAN FRANCISCO-OAKLAND, CALIF.</u>   |
|                      | 05 001.                          | Alameda County                         |
|                      | 05 007.                          | Contra Costa County                    |
|                      | 05 021.                          | Marin County                           |
|                      | 05 038.                          | San Francisco Coext.                   |
|                      | 05 041.                          | San Mateo County                       |
| <u>183</u>           |                                  | <u>SAN JOSE, CALIF.</u>                |
|                      | 05 043.                          | Santa Clara County                     |
| <u>184</u>           |                                  | <u>SANTA BARBARA, CALIF.</u>           |
|                      | 05 042.                          | Santa Barbara County                   |
| <u>185</u>           |                                  | <u>SANTA ROSA, CALIF.</u>              |
|                      | 05 049.                          | Sonoma County                          |
| <u>186</u>           |                                  | <u>SAVANNAH, GA.</u>                   |
|                      | 11 025.                          | Chatham County                         |
| <u>187</u>           |                                  | <u>SCRANTON, PA.</u>                   |
|                      | 39 035.                          | Lackawanna County                      |
| <u>188</u>           |                                  | <u>SEATTLE-EVERETT, WASH.</u>          |
|                      | 48 017.                          | King County                            |
|                      | 48 031.                          | Snohomish County                       |
| <u>189</u>           |                                  | <u>SHERMAN-DENISON, TEXAS</u>          |
|                      | 44 091                           | Grayson County                         |
| <u>190</u>           |                                  | <u>SHREVEPORT, LA.</u>                 |
|                      | 19 008.                          | Bossier Parish                         |
|                      | 19 009.                          | Caddo Parish                           |

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| <u>191</u>           |                                  | <u>SIoux CITY, IOWA-NEBR.</u>            |
|                      | 16 097.                          | Woodbury County, Iowa                    |
|                      | 28 022.                          | Dakota County, Nebr.                     |
| <u>192</u>           |                                  | <u>SIoux FALLS, S DAK.</u>               |
|                      | 42 049.                          | Minnehaha County                         |
| <u>193</u>           |                                  | <u>SOUTH BEND, IND.</u>                  |
|                      | 15 050.                          | Marshall County                          |
|                      | 15 071.                          | St. Joseph County                        |
| <u>194</u>           |                                  | <u>SPOKANE, WASH.</u>                    |
|                      | 48 032.                          | Spokane County                           |
| <u>195</u>           |                                  | <u>SPRINGFIELD, ILL.</u>                 |
|                      | 14 084.                          | Sangamon County                          |
| <u>196</u>           |                                  | <u>SPRINGFIELD, MO.</u>                  |
|                      | 26 039.                          | Greene County                            |
| <u>197</u>           |                                  | <u>SPRINGFIELD, OHIO</u>                 |
|                      | 36 012.                          | Clark County                             |
| <u>198</u>           |                                  | <u>SPRINGFIELD-HOLYOKE, MASS. (MSEA)</u> |
|                      | 22 007.                          | Hampden County                           |
|                      | 22 008.                          | Hampshire County                         |
| <u>199</u>           |                                  | <u>STeUBENVILLE-WEIRTON, OHIO-W. VA.</u> |
|                      | 36 041.                          | Jefferson County, Ohio                   |
|                      | 49 005.                          | Brooke County, W. Va.                    |
|                      | 49 015.                          | Hancock County, W. Va.                   |
| <u>200</u>           |                                  | <u>STOCKTON, CALIF.</u>                  |
|                      | 05 039.                          | San Joaquin County                       |

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| <u>201</u>           |                                  | <u>SYRACUSE, N.Y.</u>                  |
|                      | 33 025.                          | Madison County                         |
|                      | 33 032.                          | Onondaga County                        |
|                      | 33 036.                          | Oswego County                          |
| <u>202</u>           |                                  | <u>TACOMA, WASH.</u>                   |
|                      | 48 027.                          | Pierce County                          |
| <u>203</u>           |                                  | <u>TALLAHASSEE, FLA.</u>               |
|                      | 10 037.                          | Leon County                            |
| <u>204</u>           |                                  | <u>TAMPA-ST. PETERSBURG, FLA.</u>      |
|                      | 10 029.                          | Hillsborough County                    |
|                      | 10 052.                          | Pinellas County                        |
| <u>205</u>           |                                  | <u>TERRE HAUTE, IND.</u>               |
|                      | 15 011.                          | Clay County                            |
|                      | 15 077.                          | Sullivan County                        |
|                      | 15 083.                          | Vermillion County                      |
|                      | 15 084.                          | Vigo County                            |
| <u>206</u>           |                                  | <u>TEXARKANA, TEXAS-ARK.</u>           |
|                      | 44 019.                          | Bowie County, Texas                    |
|                      | 04 046.                          | Miller County, Ark.                    |
| <u>207</u>           |                                  | <u>TOLEDO, OHIO-MICH.</u>              |
|                      | 36 048.                          | Lucas County, Ohio                     |
|                      | 36 087.                          | Wood County, Ohio                      |
|                      | 23 058.                          | Monroe County, Mich.                   |
| <u>208</u>           |                                  | <u>TOPEKA, KANS.</u>                   |
|                      | 17 089.                          | Shawnee County                         |
| <u>209</u>           |                                  | <u>TRENTON, N.J.</u>                   |
|                      | 31 011.                          | Mercer County                          |

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| <u>210</u>           |                                  | <u>TUCSON, ARIZ.</u>                      |
|                      | 03 010.                          | Pima County                               |
| <u>211</u>           |                                  | <u>TULSA, OKLA.</u>                       |
|                      | 37 019.                          | Creek County                              |
|                      | 37 057.                          | Osage County                              |
|                      | 37 072.                          | Tulsa County                              |
| <u>212</u>           |                                  | <u>TUSCALOOSA, ALA.</u>                   |
|                      | 01 063.                          | Tuscaloosa County                         |
| <u>213</u>           |                                  | <u>TYLER, TEXAS</u>                       |
|                      | 44 212.                          | Smith County                              |
| <u>214</u>           |                                  | <u>UTICA-ROME, N.Y.</u>                   |
|                      | 33 021.                          | Herkimer County                           |
|                      | 33 031.                          | Oneida County                             |
| <u>215</u>           |                                  | <u>VALLEJO-NAPA, CALIF.</u>               |
|                      | 05 028.                          | Napa County                               |
|                      | 05 048.                          | Solano County                             |
| <u>216</u>           |                                  | <u>VINELAND-MILLVILLE-BRIDGETON, N.J.</u> |
|                      | 31 006.                          | Cumberland County                         |
| <u>217</u>           |                                  | <u>WACO, TEXAS</u>                        |
|                      | 44 155.                          | McLennan County                           |

1970 GEOGRAPHIC CODESSTANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR NCHS

| <u>SMSA<br/>CODE</u> | <u>STATE AND<br/>COUNTY CODE</u> | <u>SMSA NAME AND COUNTY COMPONENTS</u> |
|----------------------|----------------------------------|--|
| <u>218</u>           |                                  | <u>WASHINGTON, D.C.-MD.-VA.</u>        |
|                      | 09 001.                          | Washington, D.C.                       |
|                      | 21 016.                          | Montgomery County, Md.                 |
|                      | 21 017.                          | Prince Georges County, Md.             |
|                      | 47 021.                          | Arlington County, Va.                  |
|                      | 47 087.                          | Fairfax County, Va.                    |
|                      | 47 159.                          | Loudon County, Va.                     |
|                      | 47 225.                          | Prince William County, Va.             |
|                      | 47 300.                          | Alexandria City, Va.                   |
|                      | 47 333.                          | Fairfax City, Va.                      |
|                      | 47 336.                          | Falls Church City, Va.                 |
| <u>219</u>           |                                  | <u>WATERLOO, IOWA</u>                  |
|                      | 16 007.                          | Black Hawk County                      |
| <u>220</u>           |                                  | <u>WEST PALM BEACH, FLA.</u>           |
|                      | 10 050.                          | Palm Beach County                      |
| <u>221</u>           |                                  | <u>WHEELING, W. VA.-OHIO</u>           |
|                      | 49 026.                          | Marshall County, W. Va.                |
|                      | 49 035.                          | Ohio County, W. Va.                    |
|                      | 36 007.                          | Belmont County, Ohio                   |
| <u>222</u>           |                                  | <u>WICHITA, KANSAS</u>                 |
|                      | 17 008.                          | Butler County                          |
|                      | 17 087.                          | Sedgwick County                        |
| <u>223</u>           |                                  | <u>WICHITA FALLS, TEXAS</u>            |
|                      | 44 005.                          | Archer County                          |
|                      | 44 243.                          | Wichita County                         |
| <u>224</u>           |                                  | <u>WILKES-BARRE--HAZLETON, PA.</u>     |
|                      | 39 040.                          | Luzerne County                         |

1970 GEOGRAPHIC CODESSTANDARD METROPOLITAN STATISTICAL AREAS ADAPTED FOR NCHS

| <u>SMSA<br/>CODE</u> | <u>STATE AND<br/>COUNTY CODE</u> | <u>SMSA NAME AND COUNTY COMPONENTS</u> |
|----------------------|----------------------------------|--|
| <u>225</u>           |                                  | <u>WILMINGTON, DEL.-N.J.-MD.</u>       |
|                      | 08 002.                          | New Castle County, Del.                |
|                      | 31 017.                          | Salem County, N. J.                    |
|                      | 21 008.                          | Cecil County, Md.                      |
| <u>226</u>           |                                  | <u>WILMINGTON, N.C.</u>                |
|                      | 34 010.                          | Brunswick County                       |
|                      | 34 065.                          | New Hanover County                     |
| <u>227</u>           |                                  | <u>WORCESTER, MASS. (MSEA)</u>         |
|                      | 22 014                           | Worcester County                       |
| <u>228</u>           |                                  | <u>YORK, PA.</u>                       |
|                      | 39 001.                          | Adams County                           |
|                      | 39 067.                          | York County                            |
| <u>229</u>           |                                  | <u>YOUNGSTOWN-WARREN, OHIO</u>         |
|                      | 36 050.                          | Mahoning County                        |
|                      | 36 078.                          | Trumbull County                        |



COMPONENT PARTS FOR  
STANDARD CONSOLIDATED AREAS, 1970

I. NEW YORK, N.Y. -- NORTHEASTERN NEW JERSEY

| SMSA<br>CODE | COMPONENT NAME                         |
|--------------|--|
| 094.         | Jersey City, N.J. (SMSA)               |
| 137.         | New York, N.Y. (SMSA)                  |
| 138.         | Newark, N.J. (SMSA)                    |
| 148.         | Patterson-Clifton-Passaic, N.J. (SMSA) |
| VVV (NUM.)   | Middlesex County, N.J. (Nonmet County) |
| VVV (NUM.)   | Somerset County, N.J. (Nonmet County)  |

II. CHICAGO, ILL. -- NORTHWESTERN INDIANA

| SMSA<br>CODE | COMPONENT NAME                          |
|--------------|---|
| 042.         | Chicago, Ill., (SMSA)                   |
| 077.         | Gary-Hammond-East Chicago, Ind., (SMSA) |

## 1979 NATALITY

The following table outlines differences between the 1978 and 1979 data records.

| Tape<br>Location | Item                              | Difference  |
|------------------|-----------------------------------|---|
| 1                | DATA YEAR                         | Changed to reflect current data year  |
| 18-20            | CITY OF RESIDENCE                 | Cities with a population of 100,000 or more in 1970 are now identified  |
| 77-78            | BIRTHWEIGHT RECODE 12<br>and      | Code ranges are the same but meanings have changed to be consistent with the recommendations in the 9th Revision of the International Classification of Diseases for perinatal mortality statistics |
| 79               | BIRTHWEIGHT RECODE 3              |   |
| 92               | YEAR OF LAST<br>MENSTRUAL PERIOD  | Codes have changed to reflect current data year   |
| 95-96            | GESTATION RECODE 10               | Codes 08 and 09 have changed to be consistent with the recommendations of the 9th Revision of the ICD   |
| 115-116          | DATE OF LAST<br>LIVE BIRTH<br>and | Codes have changed to reflect current data year   |
| 127-128          | DATE OF LAST<br>OTHER TERMINATION |   |
| 187-188          | ORIGIN OR DESCENT<br>OR MOTHER    | New item  |
| 189-190          | ORIGIN OR DESCENT<br>OF FATHER    | New item  |

1979 Addendum to "Technical Appendix" of Vital Statistics  
of the United States, 1978, Volume I, Natality

SOURCES OF DATA

Natality Statistics

Natality statistics for 1979 are based on information obtained from two sources. Statistics for Arizona, Arkansas, California, Delaware, District of Columbia, Georgia, New Mexico, North Dakota, and South Dakota are based on information obtained from a 50-percent sample of microfilm copies of all certificates of live birth filed in these States. Statistics for the remainder of the United States are based on information derived from computer tapes of data coded by these States and provided to the National Center for Health Statistics through the vital statistics cooperative program.

RACE OR NATIONAL ORIGIN

Births in the United States in 1979 are classified for statistical purposes according to 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." The category "All other" comprises Black, American Indian, Chinese, Japanese, Hawaiian, Filipino, other Asian or Pacific Islanders, and "other."

Table A. Areas reporting educational attainment of parents, dates of last live birth and fetal death, date last normal menstrual period began (LMP), month of pregnancy prenatal care began, number of prenatal visits, marital status of mother, and 1- and 5-minute Apgar scores: Each State, 1979

| Area                 | Educational attainment of parents | Dates of last live birth and fetal death | Date last normal menstrual period began (LMP) | Month of pregnancy prenatal care began | Number of prenatal visits | Marital status of mother | 1-minute Apgar score | 5-minute Apgar score |
|----------------------|-----------------------------------|--|---|--|---------------------------|--------------------------|----------------------|----------------------|
| Alabama              | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Alaska               | x                                 | 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                                      |                           |                          | x                    | x                    |
| Colorado             | x                                 | x  | x   | x                                      | x                         | x                        | x                    |                      |
| Connecticut          | x                                 | x  |   | x                                      | x                         |                          |                      |                      |
| Delaware             | x                                 | x  | x   | x                                      | x                         | x                        |                      | x                    |
| District of Columbia | x                                 | x  | x   | x                                      | x                         | x                        | X                    | X                    |
| Florida              | 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                    | 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                    | x                    |
| Kansas               | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Kentucky             | x                                 | x  | x   | x                                      | x                         | x                        |                      |                      |
| Louisiana            | x                                 |  | x   | x                                      | x                         | x                        | x                    | x                    |
| Maine                | x                                 | x  | x   | x                                      | X                         |                          | X                    | X                    |
| Maryland             | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Massachusetts        | x                                 | x  | x   | x                                      | x                         |                          | x                    | x                    |
| Michigan             | x                                 | x  | x   | x                                      | x                         |                          |                      |                      |
| Minnesota            | x                                 | 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                        | x                    | x                    |
| Nebraska             | x                                 | x  | x   | x                                      | x                         |                          | x                    | x                    |
| Nevada               | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| New Hampshire        | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| New Jersey           | x                                 | x  | x   | x                                      |                           |                          |                      |                      |
| New Mexico           |                                   |  |   |  |                           |                          | x                    | x                    |
| New York             | x                                 | x  | x   | x                                      | x                         |                          | x                    | x                    |
| North Carolina       | x                                 | 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                         | x                        | x                    | x                    |
| Oregon               | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Pennsylvania         | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Rhode Island         | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| South Carolina       | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| South Dakota         | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Tennessee            | x                                 | x  | x   | x                                      | x                         |                          |                      |                      |
| Texas                |                                   |  |   | x                                      |                           |                          |                      |                      |
| Utah                 | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Vermont              | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Virginia             | x                                 | x  | x   | x                                      | x                         | x                        |                      |                      |
| Washington           |                                   | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| West Virginia        | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Wisconsin            | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |
| Wyoming              | x                                 | x  | x   | x                                      | x                         | x                        | x                    | x                    |

Table C. Sources of Population Data by Age, Race, and Sex for the United States and Total Population by State and by Month from the Current Population Reports Published by the U.S. Bureau of the Census for 1970-78.

| Year for which data were furnished | Age, race, and sex for the United States | State              | Month |
|------------------------------------|--|--------------------|-------|
| 1979 -----                         | 870                                      | Series P-25 Number | 877   |
| 1978 -----                         | 870                                      | 876                | 792   |
| 1977 -----                         | 721                                      | 734                | 729   |
| 1976 -----                         | 643                                      | 646                | 706   |
| 1975 -----                         | 643                                      | 619                | 628   |
| 1974 -----                         | 529                                      | 533                | 600   |
| 1973 -----                         | 519                                      | 518                | 525   |
| 1972 -----                         | 519                                      | 508                | 512   |
| 1971 -----                         | 511                                      | 500                | 509   |
| 1970 -----                         | (1)                                      | (2)                | 455   |

1/ Data from U.S. Census of Population, 1970, General Population Characteristics, Final Report PC(1)-B1, United States Summary, 1971.

2/ Data from U.S. Census of Population, 1970, Number of Inhabitants, Final Report PC(1)-A1, United States Summary, 1971.

\* Unpublished data from the Bureau of the Census.

## 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 Organization<sup>1</sup> 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.<sup>2,3</sup>

### 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.

<sup>1</sup>Third World Health Assembly: *Official Records*, No. 28 (WHA 3.6). Geneva. World Health Organization, May 1950. pp. 16-17.

<sup>2</sup>Statistical 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.

<sup>3</sup>National Office of Vital Statistics: *International Recommendations on Definitions of Live Birth and Fetal Death*. PHS Pub. No. 39. Public Health Service. Washington. U.S. Government Printing Office, Oct. 1950. p. 6.

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 underregistration as well as for States not in the birth-registration area before 1933.

### SOURCES OF DATA

#### Natality statistics

Natality statistics for 1978 are based on information obtained from two sources. For Alabama, Alaska, Colorado, Florida, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New York, North Carolina, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, and Wisconsin statistics are based on information derived from computer tapes of data coded by these States and provided to the National Center for Health Statistics (NCHS) through the Cooperative Health Statistics System (CHSS). Data from these States are based on the total file of records. Statistics for the remainder of the United States are based on information obtained from a 50-percent sample of microfilm copies of all certificates of live birth 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 CHSS. Natality data for 1978 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 respective 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 to the electronic computer. The computer then edits all the taped records and produces tabulations of natality statistics that are adjusted for sampling factors.

Natality data for the United States are limited to births occurring within the United States, including those occurring to residents and nonresidents of the United States. However, 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.

#### 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 needs of the State or by special provisions of the State vital statistics law. However, the certificates of most States conform closely in content to the standard certificate.

The first issue of the 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 revision procedure has assured careful evaluation of each item in terms of its current and future usefulness for registration, identification, legal, medical, and research purposes. New items have been added when necessary, and old items have been modified to ensure better reporting or in some cases have been dropped when their usefulness appeared to be limited.

**1978 revision.**—Effective January 1, 1978, a revised Standard Certificate of Live Birth (figure 4-A) replaced the 1968 revision. Changes on the new standard certificate include the addition of 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 it removes from the person completing the record 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, that before and that 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 in the classification of geographic and personal items for live births are set

# SECTION 4 - TECHNICAL APPENDIX

4-5

Form Approved  
OMB No. 68R 1900

TYPE OR PRINT IN PERMANENT INK FOR INSTRUCTIONS SEE HANDBOOK

U.S. STANDARD  
**CERTIFICATE OF LIVE BIRTH**

LOCAL FILE NUMBER BIRTH NUMBER

CHILD'S NAME FIRST MIDDLE LAST SEX DATE OF BIRTH Year Day Hour

HOSPITAL NAME (if not in hospital, give street and number) CITY, TOWN OR LOCATION OF BIRTH COUNTY OF BIRTH

I certify that the stated information concerning this child is true to the best of my knowledge and belief.

CERTIFIER NAME AND TITLE (Type in print) DATE SIGNED (Month, Day, Year) NAME AND TITLE OF ATTENDANT AT BIRTH IF OTHER THAN CERTIFIER (Type in print)

REGISTRAR DATE RECEIVED BY REGISTRAR (Month, Day, Year)

MOTHER MAIDEN NAME FIRST MIDDLE LAST AGE (at time of this birth) STATE OF BIRTH (if not in U.S.A., name country)

RESIDENCE-STATE COUNTY CITY, TOWN OR LOCATION STREET AND NUMBER OF RESIDENCE INSIDE CITY (LIMITED SPACE)

MOTHER'S MAILING ADDRESS (if same as above, enter "X" in circle only)

FATHER NAME FIRST MIDDLE LAST AGE (at time of this birth) STATE OF BIRTH (if not in U.S.A., name country)

I certify that the personal information provided on this certificate is correct to the best of my knowledge and belief.

RELATION TO CHILD

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

RACE MOTHER (e.g., White, Black, American Indian, etc.) RACE FATHER (e.g., White, Black, American Indian, etc.) BIRTH WEIGHT THIS BIRTH (Single, twin, triplet, etc.) IF NOT SINGLE BIRTH (Born first, second, third, etc.) IS MOTHER MARRIED?

PREGNANCY HISTORY (Complete each section)

LIVE BIRTHS (Do not include stillbirths) OTHER TERMINATIONS (Spontaneous and induced)

17a. Now living 17b. Now dead 17c. Before 20 weeks 17d. After 20 weeks

DATE LAST NORMAL MENSTRUATION BEGAN (Month, Day, Year) MONTH OF PREGNANCY PRE-NATAL CARE BEGAN (First, second, etc.) PRENATAL VISITS Total number APGAR SCORE 1 min 5 min

COMPLICATIONS OF PREGNANCY (Describe in words "None") CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY (Describe in words "None")

DATE OF LAST LIVE BIRTH (Month, Day, Year) DATE OF LAST STILLBIRTH (Month, Day, Year) CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (Describe in words "None")

COMPLICATIONS OF LABOR AND/OR DELIVERY (Describe in words "None")

in "Vital Statistics Classification and Coding Instructions for Live Birth Records, 1978," NCHS Instruction Manual, Part 3a. The classification of an important item is discussed on the following

Classification by occurrence  
residence

Tabulations for States and other areas within the United States are by place of residence unless otherwise specified in the tables. Births to U.S. residents occurring outside this country are not reallocated to United States. In tabulations by place of resi-

dence, 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.



## SECTION 4 - TECHNICAL APPENDIX

The change in coding beginning in 1970 to exclude births to nonresidents of the United States in residence data significantly affects the comparability of data with years prior to 1970 only for Texas; in 1978, 76.3 percent of the 5,021 births to nonresidents of the United States occurred in this State. In 1978, 83.1 percent of the 5,021 births to residents of Mexico constituted 90.1 percent of all nonresident births in the United States. An 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 indicated in the text.

In volumes for previous years (1969-77) individual State totals varied from table to table for those items 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 items 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 the birth 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 the test, errors in residence reporting for the country as a whole tend to overstate the number of births to residents of urban areas and to understate the number of births to residents of other areas. This tendency has assumed great importance because of a concomitant development—the increased utilization of hospitals in cities and the increased residence of persons in cities—resulting in the increased number of births to 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 areas is the customary procedure of using "city" addresses for persons living outside the city limits.

**Incomplete residence.**—Beginning in 1973 where 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. For years prior to 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 1978 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 all but one table in this report are those established for 1970 by the U.S. Office of Management and Budget and used by the U.S. Bureau of the Census except in the New England States. In table 1-48, section 1, the SMSA's are those established for 1978.

Except in the New England States an SMSA is a county or a group of contiguous counties containing at least one city of 50,000 inhabitants or more or "twin cities" with a combined population of at least 50,000. 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.<sup>4</sup>

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 metropolitan State economic areas (MSEA's) are used. These areas are established by the Bureau of the Census and are made up of county units.<sup>5</sup>

**Standard consolidated areas.**—For the metropolitan complexes around New York and Chicago, several contiguous SMSA's and additional counties that do not appear to meet the formal integration criteria for SMSA's but do have strong interrelationships of other kinds have been combined into the New York-North

<sup>4</sup>For a more complete discussion see U.S. Bureau of the Census, *U.S. Census of Population, 1970, Number of Inhabitants*, Final Report PC (1)-A1, United States Summary, Washington. U.S. Government Printing Office, 1971, and U.S. Bureau of the Budget, *Standard Metropolitan Statistical Areas*, Washington. U.S. Government Printing Office, 1967.

<sup>5</sup>For discussion of MSEA's see U.S. Bureau of the Census, *State Economic Areas*, Washington. U.S. Government Printing Office, 1951, and the first reference cited in footnote 4.

Eastern New Jersey and the Chicago-Northwestern Indiana Standard Consolidated Areas.<sup>6</sup>

*Metropolitan and nonmetropolitan counties.*—Independent cities and counties included in SMSA's or New England MSEA'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

Births in the United States in 1978 are classified for statistical purposes according to 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"

rac<sup>es</sup>. The separation of this category allows identification of the category "Asian or Pacific Islander" by combining the new category with Chinese, Japanese, Hawaiian and Filipino.

The newborn child is ordinarily assigned to the race or national origin of the parents. If the parents are of different races or national origins, the following rules apply: (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 "color," "race," and "specified race or national origin" indicate the detail of classification of this variable. Tabulations by "color" have two categories, "White" and "All other." Tabulations by "race" show data separately for the black population as well. Tabulations by "specified race or national origin" are the most detailed, showing all categories of the classification. In most tables the less detailed classifications of "color" and "race" are used.

*White.*—The category "White" comprises births reported as white, Mexican, Puerto Rican, Cuban, 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, and "Other." 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" or "yellow" was entered, an attempt was made to determine the specific race by examining the entry for place of birth. If the birthplace was not China, Japan, or the Philippines, the parent's race was assigned to the category "Other"

<sup>6</sup>See footnote 4.

## SECTION 4 - TECHNICAL APPENDIX

except for 1978, when it 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.

Since July 1, 1972, the birth certificate for Georgia does not provide for the specified race of the parents if the race is other than white or black. Cases for which it was indicated that parents were not of either of these races were assigned to the category "Other." This affects tabulations of births by specified race or national origin. It is reflected in an increase in births for the "Other" category and a concomitant decrease in births for American Indian, Chinese, Japanese, and Filipino. Although the exact number of births involved is not known, the number is small as there were only 150 births in these four racial groups in Georgia during 1971.

*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 has 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 color and 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 color 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 color 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 color 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 color.*—The quality of birth data by color is variable in that birth registration is higher for the white group than for the other group. In 1978 birth-registration completeness was estimated to be 99.5 percent for white births and 98.5 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 blacks 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 1978, 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 1970 Census of Population derived data on age from information requested on month and year of birth, which served as the basis for determining age in completed years as of April 1, 1970. Similarly age was determined in the 1960 Census of Population from the question, "When was this person born?" and the replies were birth dates in terms of year and month. "Age in completed years" was asked for 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.<sup>7</sup>

*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 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.

<sup>7</sup>National Vital Statistics Division: Matched record comparison of birth certificate and census information in the United States, 1950, by J. Schachter. *Vital Statistics—Special Reports*, Vol. 47, No. 12. Public Health Service, Washington, D.C., Mar. 1962.

*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 color and having the same total-birth order (total of total 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 color and parity (number of live births). For 1960-62 not stated and unknown ages were distributed in proportion to the known ages for each color 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 1978 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 second baby has a parity of one. 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 questions on the birth certificate, "Live births—now living" and "Live births—now dead."

*Not stated birth order.*—Before 1969 if both of these questions were blank, the birth was considered a first birth. Beginning in 1969, births for which neither question was answered have been tabulated as birth order not stated. As a result of this revised procedure, 28,802 births in 1978 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 this item was changed from the date of last fetal death to the date of last other termination to ensure inclusion of both spontaneous and induced fetal deaths. This information was obtained from 47 States and the District of Columbia as indicated in table A.

*Interval since last live birth and last fetal death.*—Data on intervals since last live birth and last fetal death are computed from the date of birth, date of last live birth, and date of last fetal death. 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 fetal death is the difference between the date of last fetal death 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 fetal death 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 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 fetal death.

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A. Areas reporting educational attainment of parents, dates of last live birth and fetal death, date last normal menstrual period began (LMP), month of pregnancy care began, number of prenatal visits, marital status of mother, and 1- and 5-minute Apgar scores: Each State, 1978

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

Births for whom 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 1978, 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.

*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.

#### Births to unmarried women

Marital status of the mother was reported in 39 States and the District of Columbia in 1978, as indicated in table A.

In making estimates of the number of births to unmarried women occurring in the country as a whole, the States are grouped into the nine geographic divisions. The combined ratio of out-of-wedlock births per 1,000 total live births for all reporting

States in a single geographic division is then applied to all live births occurring to residents of that division. This estimating procedure is done separately by race. The sum of the estimates of out-of-wedlock births for the nine geographic divisions comprises the estimates for the United States.

In processing the data no adjustments are made for errors in the reporting of marital status on the birth record or for failure to register births to unmarried women because the extent of such reporting problems is unknown. A mother whose marital status is not stated is considered to be married. Out-of-wedlock births for each reporting State are based on births occurring to its residents within the reporting area.

When out-of-wedlock births are reported as second or higher order births, it is not known whether previous deliveries to the mother occurred out of wedlock since the marital status of the mother at the time of these earlier births is not available from the birth record.<sup>8</sup>

The number of births to unmarried women in Hawaii in 1978 was almost 900 more than the number reported in 1977 due to an unrealistically low number reported in 1977. This low number was a result of State legislation entitled the "Uniform Parentage Act of 1976" under which a birth to an unmarried mother was coded on the certificate in the same manner as a birth to a married mother if it was acknowledged by the father while still in the hospital. It was estimated that there would have been at least 600 more out-of-wedlock births tabulated for Hawaii residents in 1977 if this legislation had not been enacted. The coding procedure has changed for 1978, giving a more accurate number.

*Birth rates for unmarried women.*—Age-specific birth rates for unmarried women shown for 1941-49 are based on U.S. Bureau of the Census estimates of the unmarried female population (single, widowed, and divorced women). Rates by color are not shown for these years since the necessary estimates of the unmarried female population are not available. The rates by age and by color for 1940 and 1950 are based on decennial census counts. In this report rates by age for 1951-78 and by age and color or race for 1955-78 are based on a smoothed series of Bureau of the Census population estimates.<sup>9</sup> Since the origi-

<sup>8</sup>For a detailed report on data for births to unmarried women see National Center for Health Statistics, "Trends and Differentials in Births to Unmarried Women, United States, 1970-76," *Vital and Health Statistics*, Series 21-No. 36. DHEW Pub. No. (PHS) 80-1914. Public Health Service, Washington. U.S. Government Printing Office, May 1980.

<sup>9</sup>*Ibid.*, Appendix II.

Bureau of the Census population estimates fluctuate erratically from year to year because of sampling error, they have been smoothed so that the rates computed from them do not show similar variations. The rates shown in this report differ, therefore, from those published in issues of *Vital Statistics of the United States* before 1969, which were based on the final estimates provided annually by the Bureau of the Census.

Due to the availability of more detailed population data, birth rates by marital status of mother by age for women aged 35-39 years and 40-44 years are shown in this volume beginning with the 1969 data. For years before 1969, rates for women in these groups are not available by color or race.

#### 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. In 1977 and prior years, births in hospitals included clinic, center, or home births only when delivered by a physician. Had the categories been defined in 1977 as in 1978, an additional 937 births would have been classified as occurring in hospitals in 1977, raising the percent of births occurring in hospitals from 98.5 to 99.0.

Births occurring in hospitals are not shown in this report by type of attendant. However, beginning in 1975 the attendant at birth and place of delivery were coded independently, primarily to permit identification of the person in attendance of hospital deliveries. Although the tabulations shown in this report combine information for these two items to be consistent with previous data years, a special tabulation showed that of the 3,300,659 births that occurred in hospitals or other institutions in 1978, 98.5 percent were delivered by physicians. Of the remainder, 1.1 percent were delivered by midwives (most were probably certified nurse midwives, who are registered nurses trained in obstetrics), and 1.3 percent were delivered by persons other than physicians and midwives or by persons for whom no status was specified.

Births occurring outside hospitals are tabulated by attendant at birth rather than by place of delivery. In such births 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.

The place of delivery of an infant born in a moving vehicle is defined as the place where the infant was removed from the vehicle; for instance, babies born en route to the hospital are classified as having been born in the hospital. This may account for some of the hospital births not delivered by physicians.

#### 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 equivalents of the gram intervals in pounds and ounces are as follows:

|                     |   |       |                    |
|---------------------|---|-------|--------------------|
| 500 grams or less   | = | 1 lb  | 1 oz or less       |
| 501 - 1,000 grams   | = | 1 lb  | 2 oz - 2 lb 3 oz   |
| 1,001 - 1,500 grams | = | 2 lb  | 4 oz - 3 lb 4 oz   |
| 1,501 - 2,000 grams | = | 3 lb  | 5 oz - 4 lb 6 oz   |
| 2,001 - 2,500 grams | = | 4 lb  | 7 oz - 5 lb 8 oz   |
| 2,501 - 3,000 grams | = | 5 lb  | 9 oz - 6 lb 9 oz   |
| 3,001 - 3,500 grams | = | 6 lb  | 10 oz - 7 lb 11 oz |
| 3,501 - 4,000 grams | = | 7 lb  | 12 oz - 8 lb 13 oz |
| 4,001 - 4,500 grams | = | 8 lb  | 14 oz - 9 lb 14 oz |
| 4,501 - 5,000 grams | = | 9 lb  | 15 oz - 11 lb 0 oz |
| 5,001 grams or more | = | 11 lb | 1 oz or more       |

For purposes of classification, infants weighing 2,500 grams or less at birth are considered to be of low birth weight.<sup>10</sup> This criterion 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).

<sup>10</sup>For a detailed report on birth weight see National Center for Health Statistics: 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.

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 a 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 1978 the computation of period of gestation is based entirely on LMP data from the 47 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 prior to 37 weeks of gestation are considered to be "preterm" or "premature" for purposes of classification. This distinction is in accordance with that adopted by the World Health Organization Expert Group on Prematurity established in 1950.

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 limited 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.

#### Month of pregnancy prenatal care began

Data on month of pregnancy prenatal care began are derived from the certificates of 49 States and the District of Columbia (see table A).<sup>11</sup>

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. 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.

#### Number of prenatal visits

Tabulations on the number of prenatal visits were presented for the first time in 1972. In 1978 these data were collected from the birth certificates of 47 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 1978 the 1-minute Apgar score was included on the birth certificates of 39 States, and the 5-minute Apgar score was included on the certificates of 38 States and the District of Columbia. See table A for a listing of reporting areas.

<sup>11</sup> For a detailed report on prenatal care see National Center for Health Statistics: Prenatal care, United States, 1969-1975. *Vital and Health Statistics: Series 21-No. 33*. DHEW Pub. No. (PHS) 78-1911. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1978.



## 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

It is estimated that 99.3 percent of all births occurring in the United States in 1978 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 color and on the 1978 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 color 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 1968," 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 color. Estimates of registration completeness for four groups (based on place of delivery and color) 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 color 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 the years 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 color 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 1, 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 independ-

ent 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 CHSS are required to have an error rate of less than 2.0 percent for each item. In almost all of these States there is 100-percent verification of the coding. 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 error 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 births<sup>12</sup> 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 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.

<sup>12</sup>For 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.

### Sampling of birth records

Birth statistics presented in this report for years prior to 1951 and for 1955 are based on the total file of birth records. Statistics for 1951-54, 1956-66, and 1968-71 are based on 50-percent samples except 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 1978 the total file of birth records was used for 36 States (see Sources of Data), which accounted for about 72 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. There is also sampling error in the numbers of births by characteristics such as color 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 1978 by characteristics in States with a 50-percent sample, the approximate standard errors for a sampling rate of 50 percent are presented in table B. To determine the standard error of an estimate from table B, 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

Table B. Standard errors of estimated births by size of estimate and total births in the area: United States, 1978

| Number of births with a specified characteristic | Total births in the area <sup>1</sup> |      |       |       |       |        |        |        |         |
|--|---------------------------------------|------|-------|-------|-------|--------|--------|--------|---------|
|  | 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   |

<sup>1</sup>By 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.

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 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 B 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 B are likely to be slight overstatements for estimated numbers of births with specified characteristics by place of occurrence at the State and national levels; 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 B are slightly overstated in most cases; for some areas the sampling errors may be considerably lower than those shown.

### 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, and 1970 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.

Estimates of the population of the United States by age, race, and sex and provisional estimates of the population of each State for 1978 are shown in tables 4-2 and 4-3, respectively.

Population estimates by age, race, and sex for the United States and total population by State and by month are published in the *Current Population Reports*, Series P-25. Table C shows the numbers of these reports for data furnished for 1970-78. Estimated populations of SMSA's for 1978 are published in Series P-25 No. 873 of the *Current Population Reports*.

Table C. Sources of population data by age, race, and sex for the United States and total population by State and by month from Series P-25 of *Current Population Reports*, published by the U.S. Bureau of the Census for 1970-78

| Year for which data were furnished | Age, race, and sex for the United States | State            | Month |
|------------------------------------|--|------------------|-------|
| Series P-25 Number                 |  |                  |       |
| 1978.....                          | 870                                      | 876              | 792   |
| 1977.....                          | 721                                      | 734              | 729   |
| 1976.....                          | 643                                      | 646              | 706   |
| 1975.....                          | 643                                      | 619              | 628   |
| 1974.....                          | 529                                      | 533              | 600   |
| 1973.....                          | 519                                      | 518              | 525   |
| 1972.....                          | 519                                      | 508              | 512   |
| 1971.....                          | 511                                      | 500              | 509   |
| 1970.....                          | ( <sup>1</sup> )                         | ( <sup>2</sup> ) | 455   |

<sup>1</sup>Data from U.S. Bureau of the Census, *U.S. Census of Population, 1970, General Population Characteristics*, Final Report PC(1)-B1, United States Summary, 1971.

<sup>2</sup>Data from U.S. Bureau of the Census, *U.S. Census of Population, 1970, Number of Inhabitants*, Final Report PC(1)-A1, United States Summary, 1971.

*Population estimates for 1971.*—Population estimates used to compute natality rates for 1971 differ from those used to compute mortality and marriage and divorce rates. Population estimates for natality rates are based on complete-count 1970 census data adjusted to reflect postcensal corrections for overstatements of the "other races" population and of centenarians in the 1970 census. Mortality and marriage and divorce rates were computed before these population estimates became available.

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

### net census undercount

The Bureau of the Census has conducted extensive research to evaluate the coverage of the United States population (including undercount and misstatement of age, race, and sex) in the last three decennial censuses—1950, 1960, and 1970. These studies provide estimates of the national population that was not enumerated in the respective censuses, by age, color, and sex as well as a set of exploratory estimates of coverage for States.<sup>13,14</sup> The reports for 1970 include ranges of estimates of net underenumeration based on alternative methodological assumptions for age, sex, and racial subgroups of the national population and illustrative estimates for individual States.

These evaluative studies indicate that there is differential coverage in the census among the population subgroups; that is, some age, color, and sex groups are more completely enumerated than others. To the extent that these estimates of undercounts are valid, that they are substantial, and that they vary

among subgroups and geographic areas, census undercounts can have consequences for vital statistics measures.<sup>15</sup> However, the effects of undercounts in the census are reduced to the extent that there is underregistration of births. If these two factors are of equal magnitude, rates based on the unadjusted populations are more accurate than those based on adjusted populations since the births have not been adjusted for underregistration.

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

If adjustments are made for persons who were not counted in the census of population, the size of the denominators is generally increased and the rate is smaller than without an adjustment. The adjusted rates for 1970 can be computed by multiplying the reported rate by ratios of the census-level population to the population adjusted for the estimated net census undercount which are shown in table D for the 1970 resident population of the United States. A ratio of less than 1.0 indicates a net census undercount and would result in a corresponding decrease in the rate. A ratio in excess of 1.0 indicates a net census overcount and would result in a corresponding increase in the rate.

In general, females in the childbearing ages were more completely enumerated than other age-sex groups for each racial group in 1970. The age group

<sup>15</sup>Ibid.

Table D. Ratio of census-level resident population to resident population adjusted for estimated net census undercount, by age, race, and sex: United States, April 1, 1970

| Age           | All races  |       |        | White      |       |        | All other  |       |        |            |       |        |
|---------------|------------|-------|--------|------------|-------|--------|------------|-------|--------|------------|-------|--------|
|               |            |       |        |            |       |        | Total      |       |        | Black      |       |        |
|               | Both sexes | Male  | Female | Both sexes | Male  | Female | Both sexes | Male  | Female | Both sexes | Male  | Female |
| All ages..... | .9743      | .9669 | .9815  | .9790      | .9734 | .9844  | .9432      | .9236 | .9620  | .9233      | .9009 | .9445  |
| 4 years.....  | .9861      | .9850 | .9873  | .9875      | .9868 | .9883  | .9781      | .9744 | .9819  | .9673      | .9635 | .9710  |
| 9 years.....  | .9876      | .9839 | .9916  | .9882      | .9843 | .9921  | .9840      | .9807 | .9879  | .9615      | .9559 | .9671  |
| 14 years..... | .9763      | .9663 | .9859  | .9794      | .9717 | .9868  | .9562      | .9308 | .9795  | .9140      | .8785 | .9469  |
| 19 years..... | .9526      | .9386 | .9664  | .9595      | .9501 | .9690  | .9059      | .8604 | .9493  | .8640      | .8098 | .9164  |
| 24 years..... | .9620      | .9464 | .9775  | .9673      | .9573 | .9774  | .9277      | .8733 | .9781  | .8867      | .8209 | .9499  |
| 29 years..... | .9634      | .9405 | .9862  | .9725      | .9561 | .9889  | .9041      | .8363 | .9692  | .8864      | .8141 | .9565  |
| 34 years..... | .9730      | .9517 | .9941  | .9810      | .9657 | .9964  | .9154      | .8494 | .9776  | .8986      | .8314 | .9620  |
| 39 years..... | .9718      | .9539 | .9892  | .9872      | .9633 | .9927  | .9206      | .8783 | .9611  | .9026      | .8597 | .9432  |
| 44 years..... | .9860      | .9732 | .9981  | .9913      | .9804 | 1.0014 | .9404      | .9089 | .9699  | .9239      | .8938 | .9515  |
| 49 years..... | ...        | ...   | .9840  | ...        | ...   | .9854  | ...        | ...   | .9749  | ...        | ...   | .9507  |
| 54 years..... | ...        | .9586 | ...    | ...        | .9672 | ...    | ...        | .8987 | ...    | ...        | .8666 | ...    |

Sources: Computed from populations published by the U.S. Bureau of the Census, *Census of Population, 1970, General Population Characteristics*, Final Report PC(1)-B1, United States Summary, table 52, and in *Current Population Reports*, Series P-25, No. 519, table A-2.

25-29 years was most underenumerated for females of childbearing age (3.4 percent). White women were more completely enumerated than women of other races at all ages.

If vital statistics measures were calculated with adjustments for net census undercounts for each of these subgroups, the resulting rates would have been differentially reduced from their original levels; that is, rates for those groups with the greatest estimated undercounts would show the greatest relative reductions due to these adjustments. Thus the color differential in fertility between the white and the all other population can be affected by adjustments for net census undercount.

#### 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 estimates 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 utilize revised population estimates prepared by the Bureau of the Census and have been expanded to include data for the two major color groups. A detailed description of the methods used in deriving these measures as well as data in more detail for earlier years are published in a separate volume.<sup>16</sup>

#### 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 1,800 in 1978, 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 1978, they would have a total of 1,800 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, 1958, 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:

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

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.<sup>17</sup> This method of seasonal adjustment used since 1964 differs slightly from

<sup>16</sup>National Center for Health Statistics: *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.

<sup>17</sup>U.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.

he 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.<sup>18</sup>

Seasonally adjusted rates for 1977 have been revised and differ from those published in *Vital Statistics of the United States, 1977*. No changes have been made in the rates for 1976 and prior years.

<sup>18</sup>National Center for Health Statistics: Seasonal variation of births, United States, 1933-63. *Vital and Health Statistics*. HHS Pub. No. 1000-Series 21-No. 9. Public Health Service. Washington. U.S. Government Printing Office, May 1966. p. 1.

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 . . . . .   | -   |
| Quantity more than 0 but less than 0.05 . . .                       | 0.0 |
| Figure does not meet standards of reliability or precision. . . . . | *   |

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