

# 1990 Census of Population and Housing Characteristics of Adults With Work Disabilities, Mobility Limitations, or Self-Care Limitations (SSTF04) Technical Documentation

D1-D90-SS04-14-TECH

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1990 Census of  
Population and Housing

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**Subject Summary**  
**Tape File (SSTF) 4**  
**Characteristics of Adults**  
**With Work Disabilities,**  
**Mobility Limitations,**  
**or Self-Care Limitations**

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The Technical Services Division, C. Thomas DiNenna, Chief, designed, developed, deployed, and produced automated technology for census data processing.

1990 Census of  
Population and Housing

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**Subject Summary  
Tape File (SSTF) 4**  
**Characteristics of Adults  
With Work Disabilities,  
Mobility Limitations,  
or Self-Care Limitations**

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**TECHNICAL  
DOCUMENTATION**

Issued June 1994



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---

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Census of Population and Housing, 1990: Subject Summary Tape File (SSTF) 4, Characteristics of Adults with Work Disabilities, Mobility Limitations, or Self-Care Limitations Technical Documentation / prepared by the Bureau of the Census. —Washington: The Bureau, 1994.

For additional information concerning the file, contact Data User Services Division, Customer Services Branch, Bureau of the Census, Washington, DC 20233. Telephone: 301-763-4100.

For additional information concerning the technical documentation, contact Data User Services Division, Data Access and Use Branch, Bureau of the Census, Washington, DC 20233. Telephone: 301-763-2074.

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# ABSTRACT

*The user should note that there are limitations to many of these data. Please refer to this technical documentation provided for Subject Summary Tape File (SSTF) 4, Characteristics of Adults with Work Disabilities, Mobility Limitations, or Self-Care Limitations for a further explanation on the limitations of the data.*

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## CITATION

*Census of Population and Housing, 1990: Subject Summary Tape File (SSTF) 4, Characteristics of Adults with Work Disabilities, Mobility Limitations, or Self-Care Limitations [machine-readable data files] / prepared by the Bureau of the Census. —Washington: The Bureau [producer and distributor], 1994.*

## TYPE OF FILE

Summary statistics.

## UNIVERSE DESCRIPTION

Civilian noninstitutionalized persons 16 years and over.

## SUBJECT MATTER DESCRIPTION

SSTF 4 records contain sample data weighted to represent the total population. In addition, the file contains 100-percent counts and unweighted sample counts for total persons and total housing units. Other data items are listed below. Please see the List of Tables chapter for a complete listing.

Age	Occupation
Aggregate earnings in 1989	Persons
Class of worker	Persons in household
Educational attainment	Race
Employment status	Ratio of income in 1989 to poverty level
Group quarters	School enrollment
Hispanic origin	Sex
Household type and relationship	Tenure
Housing units	Units in structure
Income in 1989	Vehicles available
Means of transportation to work	Veteran status
	Work status in 1989

SSTF 4 has A and B records. The A records have 3 population (PA) and 3 housing (HA) tables. The A records present data for all persons for each summary level and geographic component level within a unit of geography.

The B records have 70 population (PB) tables. The B records present data for civilian noninstitutionalized persons 16 years and over with work disabilities and without work disabilities. See the Chart 1, Characteristic Iterations, in the How to Use This File chapter for a detailed list of characteristic iterations and codes.

## GEOGRAPHIC COVERAGE

SSTF 4 is released as a single file. The Summary Level Sequence Chart chapter outlines the hierarchical and inventory summaries in their entirety.

SSTF 4 provides data for the United States, all States, and the District of Columbia. The file structure is as follows:

- United States
- State
- State—County [50,000 or more persons]
- Metropolitan Statistical Area/Consolidated Metropolitan Statistical Area [250,000 or more persons]
- Consolidated Metropolitan Statistical Area [250,000 or more persons]—Primary Metropolitan Statistical Area

## RELATED PRINTED REPORTS

1990 CP-3, *Population Subject Reports*. Several reports were prepared covering population subjects and subgroups. Geographic areas generally include the United States; some reports include data for highly populated areas, such as States, metropolitan areas (MA's), counties, and large places. Release in progress.

1990 CH-3, *Housing Subject Reports*. Housing subject reports are planned covering 1990 census items. Geographic areas generally include the United States, regions, and divisions. Release in progress.

Listed below are other 1990 census printed reports containing sample data from Summary Tape File (STF) 3 and STF 4. These reports are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. An order form follows this abstract.

1990 CPH-3, *Population and Housing Characteristics for Census Tracts and Block Numbering Areas*. One report will be published for each MA and one for the non-metropolitan balance of each State, Puerto Rico and the U.S. Virgin Islands showing data for most of the population and housing subjects included in the 1990 census. Some tables will be based on the 100-percent tabulations, others on the sample tabulations. All reports are available.

1990 CPH-4, *Population and Housing Characteristics for Congressional Districts of the 103rd Congress*. A report for each State and the District of Columbia provides both 100-percent and sample data for States, congressional districts and, within congressional districts, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in 12 States, and American Indian and Alaska Native areas. All reports are available.

1990 CPH-5, *Summary Social, Economic, and Housing Characteristics*. These reports, issued for the United States, States, District of Columbia, Puerto Rico, and the U.S. Virgin Islands, provide sample population and housing data for States and local governmental units (i.e., counties, places, towns, and townships), other county subdivisions, and American Indian and Alaska Native areas. All reports are available.

1990 CP-2, *Social and Economic Characteristics*. These reports are issued for the United States, States, District of Columbia, Puerto Rico, and the U.S. Virgin Islands. They focus on the population subjects collected on a sample basis in 1990. Data are shown for States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and each State portion of American Indian areas. All reports are available.

1990 CP-2-1A, *Social and Economic Characteristics for American Indian and Alaska Native Areas*. Data are shown for American Indian and Alaska Native areas. GPO S/N 003-024-07509-1. Price: \$44.

1990 CP-2-1B, *Social and Economic Characteristics for Metropolitan Areas*. Data are shown for MA's. GPO S/N 003-024-07510-5. Price: \$66.

1990 CP-2-1C, *Social and Economic Characteristics for Urbanized Areas*. Data are shown for urbanized areas (UA's). GPO S/N 003-024-07511-3. Price: \$66.

1990 CH-2, *Detailed Housing Characteristics*. These reports, issued for the United States, States, District of Columbia, Puerto Rico, and the U.S. Virgin Islands, focus on the housing subjects collected on a sample basis in 1990. Data are shown for States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas and the State portion of American Indian areas. All reports are available.

1990 CH-2-1A, *Detailed Housing Characteristics for American Indian and Alaska Native Areas*. Data are

shown for American Indian and Alaska Native areas. GPO S/N 003-024-07623-3. Price: \$44.

1990 CH-2-1B, *Detailed Housing Characteristics for Metropolitan Areas*. Data are shown for MA's. GPO S/N 003-024-07624-1. Price: \$66.

1990 CH-2-1C, *Detailed Housing Characteristics for Urbanized Areas*. Data are shown for UA's. GPO S/N 003-024-07625-0. Price: \$61.

## RELATED REFERENCE MATERIALS

1990 *Census of Population and Housing Tabulation and Publication Program*. This booklet provides descriptions of the data products available from the 1990 census. Available without charge from Customer Services, Data User Services Division, Bureau of the Census, Washington, DC 20233. Phone: 301-763-4100. FAX: 301-763-4794.

*Census '90 Basics*. This booklet provides a general overview of the census activity and detailed information on census content, geographic areas, and products. Available without charge from Customer Services (see above).

*Census ABC's—Applications in Business and Community*. This booklet highlights key information about the 1990 census and illustrates a variety of ways the data can be used. Available without charge from Customer Services (see above).

1990 CPH-R-1A, *1990 Census of Population and Housing Guide, Part A. Text*. This provides detailed information about all aspects of the census. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. GPO S/N 003-024-08674-7. Price \$11.

1990 CPH-R-1B, *1990 Census of Population and Housing Guide, Part B. Glossary*. This is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. GPO S/N 003-024-08679-4. Price: \$5.50. Part C, Index, provides an index of Summary Tape Files 1-4 and will be available in 1994.

## TECHNICAL DESCRIPTION

The A records for SSTF 4 have 8,165 characters in 1 segment. The B records for SSTF 4 have 114,310 characters divided into 14 segments of 8,165 characters each. The first 300 characters of each segment contain geographic information.

## FILE AVAILABILITY

SSTF 4 is available as a single file that includes the United States, States, the District of Columbia, counties with 50,000 or more persons, and Metropolitan Statistical Areas with 250,000 or more persons.

A machine-readable data dictionary is included on the tape. Options include 6250 bpl, ASCII or EBCDIC, and standard ANSI labeling. The file also is available on IBM 3480 compatible tape cartridge. When ordering, please use the order form at the end of this chapter.



Pricing information is available from Customer Services, Data User Services Division, Bureau of the Census, Washington, DC 20233. Phone: 301-763-4100. FAX: 301-763-4794.

For additional information about the subject content of SSTF 4, contact: John M. McNeill, Housing and Household Economic Statistics Division, Bureau of the Census, Washington, DC 20233. Phone: 301-763-8300.

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☐ EBCDIC    or    ☐ ASCII

A machine-readable data dictionary generally is included without charge with either format.

Other tape characteristics are available by special request for an additional handling fee of \$50. Before placing an order, make arrangements by writing or faxing a description of your special requirements to Customer Services, attention Forrest Williams.

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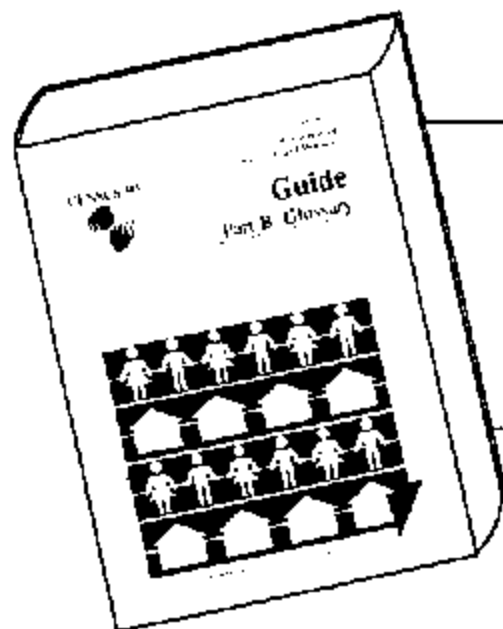
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## PART B, GLOSSARY 1990 Census of Population and Housing Guide

electronic media. (The geographic, population, and housing definitions are drawn from appendixes to 1990 census reports and technical documentation.)

### Previously Published—Part A, TEXT

If you are using 1990 census results, you will find the *Guide, Part A, Text* an indispensable reference. It offers the information you need on such subjects as:

- Data products
- Geographic terms and products
- Where to find assistance
- Population and housing concepts
- Census procedures

Still to come is an index to the 1990 census Summary Tape Files, which will be Part C.

Part B, Glossary (1990 CPH-R-1B) is the second part of the 3-part *1990 Census of Population and Housing Guide*. It defines terms used in the census.

- **Geographic** definitions cover specific characteristics of an entity, such as type of geographic code and how boundaries are determined.
- **Population and housing** definitions identify the related item numbers on the 1990 census questionnaire (included as an appendix), define the concepts involved, and note the items comparability to previous censuses.
- **Technical** terms associated with the collection, processing, and tabulation of 1990 census data also are included, along with terms used in working with data files on

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# HOW TO USE THIS FILE

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## INTRODUCTION

This chapter serves as a guide for data users to both the tape and the technical documentation. Novice users trying to understand how to use the documentation and the file should read this chapter first.

The SSTF 4 file has A and B records. The A records present data for all persons in 3 population (PA) tables and in 3 housing (HA) tables. The B records present more detail in 70 population (PB) tables. The Table (Matrix) Outlines chapter gives a complete description of all tables in the A and B records.

## Documentation Chapters

The Abstract chapter in this documentation provides a quick overview of the file, including the formal title, geographic coverage, subject coverage, and file availability. Also shown are citations for related reference materials and printed reports. Their titles and geography are included in this section, along with purchasing information.

The Subject Locator is an aid to finding which tables provide the information needed. The List of Tables (Matrices) and the Table (Matrix) Outlines provide two types of presentations for the tables available in the file. The List of Tables has the table titles and universes. The Table Outlines offer a detailed presentation of the tables. When reviewing the tables, remember that a colon(:) following an entry indicates the entry is a heading, not a data cell.

## User Notes

Information about file or documentation changes sometimes becomes available after the documentation has been printed. User notes inform the user community about these changes. These are issued in a numbered series. If there are technical documentation changes, revised pages usually accompany them. The revised pages should be inserted in their proper location, but the user note cover sheet should be filed in the User Notes chapter. Technical notes, which contain file errata, are also issued by the Census Bureau. We suggest filing these following appendix H.

## Data Dictionary

The data dictionary describes the file and provides character locations for each variable and each table. It has two elements, the identification section and the table (matrix) section.

In the identification section, the components include the field name; the data dictionary reference name, a short mnemonic for use with software packages; field size; starting position; and data type (alphabetic, numeric, or alphanumeric).

The identification section of the data dictionary is identical for all summary tape files. It provides a list of the geographic codes or refers the user to the appropriate source. Review the footnotes carefully; they provide explanations for various terms. These footnotes are listed at the end of the identification section of the data dictionary.

The table (matrix) section provides information on the table (matrix) number; table (matrix) description; number of implied decimals in each cell (if not 0); starting position within the record, within the segment, and for all cells within the first-level variable; and cell coordinates.

There also is a machine-readable data dictionary file on the data tape. This dictionary is designed to be converted for use with various software packages.

## Appendixes

Detailed information on geographic areas is in appendix A followed by subject-matter definitions in appendix B. Appendix C provides detailed statistical information about the data while appendix D outlines the data collection and procedures. Facsimiles of both the respondent instructions and 1990 census long-form questionnaire are in appendix E.

Appendix F furnishes detailed information on all the data products of the 1990 census, as well as suggested sources of information and assistance. The record layout for the machine-readable data dictionary file that accompanies each tape order is in appendix G.

Appendix H contains the code lists used in processing the data. These codes are used in conjunction with the table (matrix) outlines and data dictionary chapters.

## Count Corrections

The Census Bureau issues population count corrections on an occasional basis. Count corrections for geography at the place level and above are available from Customer Services, Data User Services Division, Bureau

of the Census, Washington, DC 20233. Count corrections for geography at the census tract/BNA level or below are available from Population Division, Bureau of the Census, Washington, DC 20233. When requesting these corrections, please include the desired census tract/BNA, block group, or block numbers.

## USING THE FILE

### Internal File Labels

**System Labels**—Tape orders which specify labeled tapes will have a standard American National Standards Institute (ANSI) label. The system label consists of 17 characters, 12 characters are used and the last 5 are "x" filled. The 1990 SSTF 4 file has a Data Set Name (DSN) of SSTF4XUS.Fnnxxxx, where nn is a two-digit number with leading zeros identifying the tape volume sequence. (The "X", "F", and "x" in the DSN remain constant.)

**User Labels**—Each user tape will have six user header labels and six user trailer labels. These labels combine information from the system label and the identification portion of the first and last record. These labels enable the user to quickly identify the beginning and ending records on each tape.

**User Header Labels**—The user header labels are designated UHL1 through UHL6. UHL1 and UHL2 repeat information from the system label in HDR1 and HDR2. (See the File Information section.) UHL3 and UHL4 contain information from the identification portion of the first record on the tape. UHL5 and UHL6 contain a statement regarding the data limitations.

**User Trailer Labels**—The user trailer labels are designated UTL1 through UTL6. UTL1 and UTL2 contain information from the system trailer label. UTL3 and subsequent user trailer labels contain identification information from the last record on the tape. The unused portion of UTL6 is blank filled.

### File Information

File information, such as record counts, is not provided in the technical documentation. However, each tape order is accompanied by a tape creation sheet. This sheet provides the file name, file label (HDR1), the third user header label (UHL3), record size, block size, and record count. The third user header label for each reel identifies the geography for the first record on the reel. For example, the UHL3 at the beginning of each reel of a three-reel file provides the geography for the first record. If the geography needed is on reel three, only reel three needs to be processed.

The tape creation sheet received with the tape should be filed in the technical documentation notebook or with other tape information maintained by the user.

## Summary Level Sequence Chart and Geographic Area Component Codes

The Summary Level Sequence Chart chapter and the geographic area component codes provide important information for using the 1990 census summary tape files. The Summary Level Sequence Chart chapter for the SSTF 4 file identifies the geographic levels for which data are provided.

After identifying the summary level code, turn to chart 3 at the end of this chapter to determine the geographic area codes and area characteristics provided on the tape for this summary level. Remember that an asterisk (\*) indicates a code in that field. The code may be one of the standard codes described below.

The Summary Level Sequence Chart chapter also provides geographic component code information. This code identifies the various geographic components for which the record is repeated within the summary level. These component codes are provided in the identification section of the data dictionary beginning in position 14. For example in SSTF 4, the Summary Level Sequence Chart indicates that for the United States (summary level 010) the geographic component codes are 00, 20, and 30. By turning to the geographic component variable in the data dictionary, you can determine that the tables are available for total geography (00), in metropolitan statistical area/consolidated metropolitan statistical area (20), and not in metropolitan statistical area/consolidated metropolitan statistical area (30).

In short, always check the geographic code, the summary level (beginning in position 11 of the data dictionary), the geographic component code (beginning in position 14 of the data dictionary), and the characteristic iteration (beginning in position 16 of the data dictionary) for complete identification of an SSTF 4 record.

### A and B Records

SSTF 4 is a single file with the data presented in A and B records. The A and B records can be identified by the characteristic iteration field (CHARITER, position 16 in the data dictionary).

Each record type presents a different set of tables. The Table (Matrix) Outlines chapter gives a complete description of all tables in the A and B records.

The A records have 3 population (PA) and 3 housing (HA) tables. The A records provide data for all persons for each summary level and geographic component level within a unit of geography. Since the characteristic iteration in the A records is always all persons, the A records can be identified by blanks in the characteristic iteration field.

The B records present more detail in 70 housing (PB) tables. The B records are identified by numbers in the characteristic iteration field. Chart 1 lists the characteristic iteration codes for the A and B records.

**Chart 1. Characteristic Iterations**

<b>Subject Summary Tape File 4</b>	
<b>A Record</b>	
Blanks: All persons	
<b>B Record</b>	
NOTE: The codes below are used only in the B records. A blank in this field indicates an A record.	
000	Civilian noninstitutionalized persons 18 years and over
	With a work disability:
	With a mobility or self-care limitation:
	With a mobility and self-care limitation:
801	Prevented from working
802	Not prevented from working
	With a mobility limitation only:
803	Prevented from working
804	Not prevented from working
	With a self-care limitation only:
805	Prevented from working
806	Not prevented from working
	No mobility or self-care limitation:
807	Prevented from working
808	Not prevented from working
	No work disability:
	With a mobility or self-care limitation:
809	With a mobility and self-care limitation
810	With a mobility limitation only
811	With a self-care limitation only
812	No mobility or self-care limitation

## Record Identification

Each record on a summary tape file is uniquely identified by a combination of specific geographic codes (for example, State abbreviation), summary level, geographic component code, and characteristic iteration. Chart 1 indicates that for A records, data are presented for all persons. The 3 population and 3 housing tables in the A records for SSTF 4 provide counts of total persons and housing units, unweighted sample counts, and 100-percent counts.

Most of the population tables in the B records provide data for civilian noninstitutionalized persons 16 years and over and for the 12 disability characteristics listed in Chart 1.

For example, in table PA1 (Persons), one can obtain the total number of persons in the United States (summary level 010). Using the B records, table PB14 (Sex by Age by Earnings in 1989), you can retrieve the number of persons with a mobility and self-care limitation that are not prevented from working (characteristic iteration code 802) that live in the United States (summary level 010).

Remember, in both of these examples, you must check all four fields—the summary level code, the geographic component, the characteristic iteration, and the State abbreviation—or you will find multiple records.

In addition, a table may extend across segments. Please refer to the Record Segmentation section below for information on selecting the correct segment of data.

## Record Segmentation

Logical records are divided into segments, each containing identification information and specific tables. The logical record has a record sequence number which is repeated in each segment. This is the logical record number (LOGRECNU) which appears in position 19 of each segment. Following this, in position 25, is the logical record part number (LOGRECPN). The LOGRECPN indicates the segment number for a block of data within a record. See Chart 2, Segmentation of the SSTF 4 Records, for a list of segments in the SSTF 4 file. The total number of parts, or segments, in a record (PARTREC) are shown in position 29.

The A records have 8,165 characters in 1 segment. The B records have 114,310 characters divided into 14 segments of 8,165 characters each. All of the segments include 300 characters of geographic identification information followed by tables (matrices). Tables split across segments are indicated in Chart 2 below. The geographic identification information layout for each segment is identical to the identification section described in positions 1-300 of the data dictionary. Filler appears in the record to complete a record segment and also replaces data in some tables that were not included in the final compilation. The tables containing filler are PB29 through PB35, PB44, PB47, PB50, PB53, PB56, PB59, and PB62.

The machine-readable data dictionary, which accompanies the SSTF 4 file, provides information on these table (matrix) splits across segments.

**Chart 2. Segmentation of SSTF 4 Records**

<b>Record A</b>	
Segment 1 Geographic Identification Information	PA1—through HA3  8,165 characters including 7,811 characters filler
<b>Record B</b>	
Segment 1 Geographic Identification Information	PB1—through PB9—166 data cells  8,165 characters including 8 characters filler
Segment 2 Geographic Identification Information	PB9—159 data cells—through PB12—134 data cells  8,165 characters including 8 characters filler
Segment 3 Geographic Identification Information	PB12—145 data cells—through PB15—545 data cells  8,165 characters including 8 characters filler

Chart 2. Segmentation of SSTF 4 Records—Con.

Record 8—Con.

Segment 4 Geographic Identification Information	PB15—55 data cells—through PB18—158 data cells  8,165 characters including 8 characters filler
Segment 5 Geographic Identification Information	PB18—343 data cells—through PB21—131 data cells  8,165 characters including 8 characters filler
Segment 6 Geographic Identification Information	PB21—109 data cells—through PB25—60 data cells  8,165 characters including 8 characters filler
Segment 7 Geographic Identification Information	PB25—20 data cells—through PB36—17 data cells  8,165 characters including 14 characters filler
Segment 8 Geographic Identification Information	PB36—163 data cells—through PB40—43 data cells  8,165 characters including 5 characters filler
Segment 9 Geographic Identification Information	PB40—17 data cells—through PB44—269 data cells  8,165 characters including 5 characters filler
Segment 10 Geographic Identification Information	PB44—227 data cells—through PB45—368 data cells  8,165 characters including 2 characters filler
Segment 11 Geographic Identification Information	PB45—98 data cells—through PB52—182 data cells  8,165 characters including 5 characters filler
Segment 12 Geographic Identification Information	PB52—304 data cells—through PB54—50 data cells  8,165 characters including 5 characters filler
Segment 13 Geographic Identification Information	PB54—436 data cells—through PB56—45 data cells  8,165 characters including 2 characters filler
Segment 14 Geographic Identification Information	PB56—57 data cells—through PB70  8,165 characters including 98 characters filler

## Special Area Codes

Special area codes appear in the geographic area codes portion of the data dictionary (positions 142-171) on all SSTF's. The codes represented may vary across SSTF's. Special area code (9) is used in all summary levels on the SSTF 4 file. The nine codes for special area code (9) are described below.

### Special area code (9) Land/water area

- |   |  |
|---|--|
| 1 | Significant land, significant (0.0005 or more square kilometers) water |
| 2 | Significant land, minimal (less than 0.0005 square kilometer) water    |
| 3 | Significant land, zero (0) water                                       |
| 4 | Minimal land, significant water  |
| 5 | Minimal land, minimal water  |
| 6 | Minimal land, zero water   |
| 7 | Zero land, significant water   |
| 8 | Zero land, minimal water   |
| 9 | Zero land, zero water  |

## Standard Codes

In the identification section of all summary tape files, there are standard codes, undefined in the data dictionary, that have identical meaning regardless of the field. The codes are the same size as the field; that is, a three-character field will have three symbols. These standard codes are listed below.

- |       |  |
|-------|--|
| 1     | Not available—The codes would be shown except it had not been determined when the files were prepared (for example, metropolitan area code on a county summary level (050) on STF 1A).   |
| 9     | Not in—This indicates a "remainder of" an area, such as a place code in the portion of a county subdivision not in a place, or the summary level is not part of any area to which the code field applies, such as a summary level which is not in an Alaska Native Regional Corporation. |
| Blank | Not applicable—This indicates that the code is not applicable to the summary level.  |

Where these codes are specifically defined in the data dictionary, the defined code should be used. For example, in the division code description on the data dictionary (position 89), the code for the Pacific Division is indicated as "9." This "9" should be interpreted as the division code, not as "not in," the standard code for "9."



**Chart 3. SSTF 4 File Identification by Summary Level<sup>1</sup>**

Field name	Summary level 010 040 053			Summary level 305 306	
<b>Record Codes</b>					
File Identification	*	*	*	*	*
State/US-Abbreviation	*	*	*	*	*
Summary Level	*	*	*	*	*
Geographic Component	*	*	*	*	*
<hr/>					
Characteristic Iteration	*	*	*	*	*
Logical Record Number	*	*	*	*	*
Logical Record Part Number	*	*	*	*	*
Total Number of Parts In Record	*	*	*	*	*
<hr/>					
<b>Geographic Area Codes</b>					
Alaska Native Regional Corporation					
American Indian/Alaska Native Area (Census)					
American Indian/Alaska Native Area (FIPS)					
American Indian/Alaska Native Area Class Code					
<hr/>					
American Indian Reservation Trust Land Indicator					
Block					
Block Group					
Census Tract/Block Numbering Area					
<hr/>					
Congressional District					
Consolidated City (Census)					
Consolidated City (FIPS)					
Consolidated City Class Code					
<hr/>					
Consolidated City Size Code					
Consolidated Metropolitan Statistical Area					
County					
County Size Code					
<hr/>					
County Subdivision (Census)					
County Subdivision (FIPS)					
County Subdivision Class Code					
County Subdivision Size Code					
<hr/>					
Division					
Extended City Indicator					
Internal Use Code					
Metropolitan Statistical Area/Consolidated					
Metropolitan Area					

<sup>1</sup>See the Summary Level Sequence Chart chapter for identification of the summary level record numbers.

**Chart 3. SSTF 4 File Identification by Summary Level<sup>1</sup>—Con.**

Field name	Summary level 010 040 053			Summary level 305 306	
Geographic Area Codes—Con.					
MSA/CMSA Size Code			*	*	*
Place (Census)					
Place (FIPS)					
Place Class Code					
<hr/>					
Place Description Code					
Place Size Code					
Primary Metropolitan Statistical Area			*		*
Region		*	*		
<hr/>					
State (Census)		*	*		
State (FIPS)		*	*		
Urban/Rural					
Urbanized Area					
Urbanized Area Size Code					
<hr/>					
Special Area Code (1)					
Special Area Code (2)					
Special Area Code (3)					
Special Area Code (4)					
Special Area Code (5)					
<hr/>					
Special Area Code (6)					
Special Area Code (7)					
Special Area Code (8)					
Special Area Code (9)		*	*	*	*
Special Area Code (10)					*
<hr/>					
Area Characteristics					
Area (Land)		*	*	*	*
Area (Water)		*	*	*	*
Area Name/PSAD Term/Part Indicator		*	*	*	*
Functional Status Code		*	*	*	*
<hr/>					
Geographic Change User Note Indicator		*	*	*	*
Housing Unit Count (100 percent)		*	*	*	*
Internal Point (Latitude)		*	*	*	*
Internal Point (Longitude)		*	*	*	*
<hr/>					
Part Flag					
Political/Statistical Area Description Code			*	*	*
Population Count (100 percent)		*	*	*	*
Special Flag		*	*	*	*

<sup>1</sup>See the Summary Level Sequence Chart chapter for identification of the summary level record numbers.

# SUBJECT LOCATOR

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This Index is designed to identify quickly the variables in the SSTF 4 tables. Each variable in a table is listed alphabetically in bold type. Both the universes and the relevant table numbers appear under the variable heading. If the index variable is cross tabulated by other variables, the cross tabulation variables are indicated beneath the universe and are preceded by the word "by."

The universe, that is the type of entry being tabulated, is shown in *italics*. While each tabulation applies to only one universe, the index variables may have references to more than one universe.

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PA2.	UNWEIGHTED SAMPLE COUNT OF PERSONS(1) <i>Universe: Persons</i> Total	1
PA3.	100-PERCENT COUNT OF PERSONS(1) <i>Universe: Persons</i> Total	1
HA1.	HOUSING UNITS(1) <i>Universe: Housing units</i> Total	1
HA2.	UNWEIGHTED SAMPLE COUNT OF HOUSING UNITS(1) <i>Universe: Housing units</i> Total	1
HA3.	100-PERCENT COUNT OF HOUSING UNITS(1) <i>Universe: Housing units</i> Total	1
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Table (matrix)	Title	Total number of data cells
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PB4.	SEX(2) BY AGE(7) BY PERSONS IN HOUSEHOLD(9) ..... <i>Universe: Civilian persons 16 years and over in households</i> Male: 16 to 24 years: 1 person 2 persons 3 persons 4 persons 5 persons 6 persons 7 persons 8 persons 9 or more persons 25 to 34 years: (Repeat PERSONS IN HOUSEHOLD) 35 to 44 years: (Repeat PERSONS IN HOUSEHOLD) 45 to 54 years: (Repeat PERSONS IN HOUSEHOLD) 55 to 64 years: (Repeat PERSONS IN HOUSEHOLD) 65 to 74 years: (Repeat PERSONS IN HOUSEHOLD) 75 years and over: (Repeat PERSONS IN HOUSEHOLD) Female: (Repeat AGE BY PERSONS IN HOUSEHOLD)	126
PB5.	SEX(2) BY AGE(5) BY EDUCATIONAL ATTAINMENT(5) ..... <i>Universe: Civilian noninstitutionalized persons 25 years and over</i> Male: 25 to 34 years: Not high school graduate High school graduate (includes equivalency) Some college or associate degree Bachelor's degree Graduate or professional degree 35 to 44 years: (Repeat EDUCATIONAL ATTAINMENT) 45 to 54 years: (Repeat EDUCATIONAL ATTAINMENT) 55 to 64 years: (Repeat EDUCATIONAL ATTAINMENT) 65 years and over: (Repeat EDUCATIONAL ATTAINMENT) Female: (Repeat AGE BY EDUCATIONAL ATTAINMENT)	50
PB6.	SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) ..... <i>Universe: Civilian noninstitutionalized persons 16 to 24 years</i> Male: Not high school graduate: Enrolled in school Not enrolled in school High school graduate (includes equivalency): (Repeat SCHOOL ENROLLMENT)	20



Table (matrix)	Title	Total number of data cell
PB6.	SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2)—Con. Some college or associate degree: (Repeat SCHOOL ENROLLMENT) Bachelor's degree: (Repeat SCHOOL ENROLLMENT) Graduate or professional degree: (Repeat SCHOOL ENROLLMENT) Female: (Repeat EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT)	
PB7.	SEX(2) BY AGE(5) BY VETERAN STATUS(3)..... <i>Universe: Civilian noninstitutionalized persons 25 years and over</i> Male: 25 to 34 years: In Armed Forces Civilian: Veteran Nonveteran 35 to 44 years: (Repeat VETERAN STATUS) 45 to 54 years: (Repeat VETERAN STATUS) 55 to 64 years: (Repeat VETERAN STATUS) 65 years and over: (Repeat VETERAN STATUS) Female: (Repeat AGE By VETERAN STATUS)	31
PB8.	SEX(2) BY AGE(2) BY PERSONS IN HOUSEHOLD(9) BY HOUSEHOLD INCOME IN 1989(9)..... <i>Universe: Civilian persons 16 years and over in households</i> Male: 16 to 64 years: 1 person: Less than \$5,000 \$5,000 to \$9,999 \$10,000 to \$14,999 \$15,000 to \$24,999 \$25,000 to \$34,999 \$35,000 to \$49,999 \$50,000 to \$74,999 \$75,000 to \$99,999 \$100,000 or more 2 persons: (Repeat HOUSEHOLD INCOME IN 1989) 3 persons: (Repeat HOUSEHOLD INCOME IN 1989) 4 persons: (Repeat HOUSEHOLD INCOME IN 1989) 5 persons: (Repeat HOUSEHOLD INCOME IN 1989) 6 persons: (Repeat HOUSEHOLD INCOME IN 1989) 7 persons: (Repeat HOUSEHOLD INCOME IN 1989) 8 persons: (Repeat HOUSEHOLD INCOME IN 1989) 9 or more persons: (Repeat HOUSEHOLD INCOME IN 1989) 65 years and over: (Repeat PERSONS IN HOUSEHOLD By HOUSEHOLD INCOME IN 1989) Female: (Repeat AGE By PERSONS IN HOUSEHOLD By HOUSEHOLD INCOME IN 1989)	324

Table (matrix)	Title	Total number of data cells
PB9.	SEX(2) BY AGE(17) BY INCOME IN 1989(11) ..... Universe: <i>Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 19 years: Without income With income: \$1 to \$4,999 or less \$5,000 to \$9,999 \$10,000 to \$14,999 \$15,000 to \$19,999 \$20,000 to \$24,999 \$25,000 to \$34,999 \$35,000 to \$49,999 \$50,000 to \$74,999 \$75,000 to \$99,999 \$100,000 and over 20 to 24 years: (Repeat INCOME IN 1989) 25 to 29 years: (Repeat INCOME IN 1989) 30 to 34 years: (Repeat INCOME IN 1989) 35 to 39 years: (Repeat INCOME IN 1989) 40 to 44 years: (Repeat INCOME IN 1989) 45 to 49 years: (Repeat INCOME IN 1989) 50 to 54 years: (Repeat INCOME IN 1989) 55 to 59 years: (Repeat INCOME IN 1989) 60 to 64 years: (Repeat INCOME IN 1989) 65 to 69 years: (Repeat INCOME IN 1989) 70 to 74 years: (Repeat INCOME IN 1989) 75 to 79 years: (Repeat INCOME IN 1989) 80 to 84 years: (Repeat INCOME IN 1989) 85 to 89 years: (Repeat INCOME IN 1989) 90 to 94 years: (Repeat INCOME IN 1989) 95 years and over: (Repeat INCOME IN 1989) Female: (Repeat AGE By INCOME IN 1989)	374
PB10.	SEX(2) BY AGE(4) BY GROUP QUARTERS(10) ..... Universe: <i>Persons in group quarters 15 years and over</i> Male: 15 to 59 years: Institutionalized persons (001-991): Correctional institutions (201-241, 271, 281, 951) Nursing homes (601-671) Mental (Psychiatric) hospitals (451-481) Juvenile Institutions (011-051, 101-121, 151) Other Institutions (001, 061-091, 131, 141, 161-191, 251, 261, 291-441, 491-591, 681-941, 961-991)	80

Table (matrix)	Title	Total number of data cells
PB10.	SEX(2) BY AGE(4) BY GROUP QUARTERS(10)--Con. Other persons in group quarters (00N-99N): College dormitories (87N) Military quarters (96N-98N) Emergency shelters for homeless (82N, 83N) Visible in street locations (84N, 85N) Other noninstitutional group quarters (00N-81N, 86N, 88N-95N, 99N) 60 to 64 years: (Repeat GROUP QUARTERS) 65 to 74 years: (Repeat GROUP QUARTERS) 75 years and over: (Repeat GROUP QUARTERS) Female: (Repeat AGE By GROUP QUARTERS)	
PB11.	SEX(2) BY AGE(7) BY RATIO OF INCOME IN 1989 TO POVERTY LEVEL(9)..... <i>Universe: Civilian noninstitutionalized persons 16 years                and over for whom poverty status is determined</i> Male: 16 to 24 years: Under .50 .50 to .74 .75 to .99 1.00 to 1.24 1.25 to 1.49 1.50 to 1.74 1.75 to 1.84 1.85 to 1.99 2.00 and over 25 to 34 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) 35 to 44 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) 45 to 54 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) 55 to 64 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) 65 to 74 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) 75 years and over: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) Female: (Repeat AGE By RATIO OF INCOME IN 1989 TO POVERTY LEVEL)	126
PB12.	SEX(2) BY AGE(7) BY TENURE(2) BY UNITS IN STRUCTURE(10) ..... <i>Universe: Civilian persons 16 years and over in households</i> Male: 16 to 24 years: Owner occupied. 1, detached 1, attached 2 3 or 4 5 to 9 10 to 19 20 to 49 50 or more Mobile home or trailer Other	280

Table (matrix)	Title	Total number of data cells
PB12.	SEX(2) BY AGE(7) BY TENURE(2) BY UNITS IN STRUCTURE(10)—Con. Renter occupied: (Repeat UNITS IN STRUCTURE) 25 to 34 years: (Repeat TENURE By UNITS IN STRUCTURE) 35 to 44 years: (Repeat TENURE By UNITS IN STRUCTURE) 45 to 54 years: (Repeat TENURE By UNITS IN STRUCTURE) 55 to 64 years: (Repeat TENURE By UNITS IN STRUCTURE) 65 to 74 years: (Repeat TENURE By UNITS IN STRUCTURE) 75 years and over: (Repeat TENURE By UNITS IN STRUCTURE) Female: (Repeat AGE By TENURE By UNITS IN STRUCTURE)	
PB13.	SEX(2) BY AGE(7) BY VEHICLES AVAILABLE(2)..... <i>Universe: Civilian persons 16 years and over in households</i> Male: 16 to 24 years: In housing unit with 1 or more vehicles available In housing unit with no vehicles available 25 to 34 years: (Repeat VEHICLES AVAILABLE) 35 to 44 years: (Repeat VEHICLES AVAILABLE) 45 to 54 years: (Repeat VEHICLES AVAILABLE) 55 to 64 years: (Repeat VEHICLES AVAILABLE) 65 to 74 years: (Repeat VEHICLES AVAILABLE) 75 years and over: (Repeat VEHICLES AVAILABLE) Female: (Repeat AGE By VEHICLES AVAILABLE)	29
PB14.	SEX(2) BY AGE(7) BY EARNINGS IN 1989(11)..... <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: No earnings With earnings: \$1 to \$4,999 or less \$5,000 to \$9,999 \$10,000 to \$14,999 \$15,000 to \$19,999 \$20,000 to \$24,999 \$25,000 to \$34,999 \$35,000 to \$49,999 \$50,000 to \$74,999 \$75,000 to \$99,999 \$100,000 or more 25 to 34 years: (Repeat EARNINGS IN 1989) 35 to 44 years: (Repeat EARNINGS IN 1989) 45 to 54 years: (Repeat EARNINGS IN 1989)	154

Table (matrix)	Title	Total number of data cells
PB14.	SEX(2) BY AGE(7) BY EARNINGS IN 1989(11)—Con. 55 to 64 years: (Repeat EARNINGS IN 1989) 65 to 74 years: (Repeat EARNINGS IN 1989) 75 years and over: (Repeat EARNINGS IN 1989) Female: (Repeat AGE By EARNINGS IN 1989)	
PB15.	SEX(2) BY RACE(5) BY AGE(6) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10)..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years</i> Male: White: 16 to 24 years: Employed, at work 35 or more hours Employed, at work 15 to 34 hours Employed, at work 1 to 14 hours Employed, with a job, but not at work Unemployed, last worked 1989 or 1990 Unemployed, last worked 1988 or earlier Unemployed, never worked Not in labor force, last worked 1989 or 1990 Not in labor force, last worked 1988 or earlier Not in labor force, never worked 25 to 34 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 35 to 44 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 45 to 54 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 55 to 59 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 60 to 64 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) Black: (Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) American Indian, Eskimo, or Aleut: (Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) Asian or Pacific Islander: (Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) Other race: (Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) Female: (Repeat RACE By AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)	600
PB16.	SEX(2) BY RACE AND HISPANIC ORIGIN(3) BY AGE(6) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10)..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years</i> Male: Hispanic origin: 16 to 24 years: Employed, at work 35 or more hours Employed, at work 15 to 34 hours Employed, at work 1 to 14 hours Employed, with a job, but not at work Unemployed, last worked 1989 or 1990	360

PB16.	<p>SEX(2) BY RACE AND HISPANIC ORIGIN(3) BY AGE(6) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10)—Con.</p> <p>Unemployed, last worked 1988 or earlier</p> <p>Unemployed, never worked</p> <p>Not in labor force, last worked 1989 or 1990</p> <p>Not in labor force, last worked 1988 or earlier</p> <p>Not in labor force, never worked</p> <p>25 to 34 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p> <p>35 to 44 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p> <p>45 to 54 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p> <p>55 to 59 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p> <p>60 to 64 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p> <p>White, not of Hispanic origin: (Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p> <p>Other races, not of Hispanic origin: (Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p> <p>Female: (Repeat RACE AND HISPANIC ORIGIN By AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p>	300
PB17.	<p>SEX(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) BY HOUSEHOLD TYPE AND RELATIONSHIP(16)</p> <p>Universe: <i>Civilian noninstitutionalized persons 16 to 64 years</i></p> <p>Male:</p> <p>Employed, at work 35 or more hours:</p> <p>In married-couple family households:</p> <p>Householder or spouse:</p> <p>With own children under 18 years</p> <p>No own children under 18 years</p> <p>Parent</p> <p>Child</p> <p>Other relatives</p> <p>Nonrelatives</p> <p>In other family households:</p> <p>Householder:</p> <p>With own children under 18 years</p> <p>No own children under 18 years</p> <p>Parent</p> <p>Child</p> <p>Other relatives</p> <p>Nonrelatives</p> <p>In nonfamily households:</p> <p>Living alone</p> <p>Not living alone</p> <p>In group quarters</p> <p>Employed, at work 16 to 34 hours: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)</p> <p>Employed, at work 1 to 14 hours: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)</p> <p>Employed, with a job, but not at work: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)</p> <p>Unemployed, last worked 1989 or 1990: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)</p> <p>Unemployed, last worked 1988 or earlier: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)</p>	

Table (matrix)	Title	Total number of data cells
PB17.	SEX(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) BY HOUSEHOLD TYPE AND RELATIONSHIP(15)—Con. Unemployed, never worked: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP) Not in labor force, last worked 1989 or 1990: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP) Not in labor force, last worked 1988 or earlier: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP) Not in labor force, never worked: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP) Female: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED By HOUSEHOLD TYPE AND RELATIONSHIP)	
PB18.	SEX(2) BY AGE(5) BY EDUCATIONAL ATTAINMENT(5) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) ..... <i>Universe: Civilian noninstitutionalized persons 25 to 64 years</i> Male: 25 to 34 years: Not high school graduate: Employed, at work 35 or more hours Employed, at work 15 to 34 hours Employed, at work 1 to 14 hours Employed, with a job, but not at work Unemployed, last worked 1989 or 1990 Unemployed, last worked 1988 or earlier Unemployed, never worked Not in labor force, last worked 1989 or 1990 Not in labor force, last worked 1988 or earlier Not in labor force, never worked High school graduate (includes equivalency): (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) Some college or associate degree: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) Bachelor's degree: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) Graduate or professional degree: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 35 to 44 years: (Repeat EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 45 to 54 years: (Repeat EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 55 to 59 years: (Repeat EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 60 to 64 years: (Repeat EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) Female: (Repeat AGE By EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)	500
PB19.	SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) ..... <i>Universe: Civilian noninstitutionalized persons 16 to 24 years</i> Male: Not high school graduate: Enrolled in school: Employed, at work 35 or more hours Employed, at work 15 to 34 hours Employed, at work 1 to 14 hours	200

PB19.	<p><b>SEX(2) BY EDUCATIONAL ATTAINMENT(6) BY SCHOOL ENROLLMENT(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10)—Con.</b></p> <p>Employed, with a job, but not at work  Unemployed, last worked 1989 or 1990  Unemployed, last worked 1988 or earlier  Unemployed, never worked  Not in labor force, last worked 1989 or 1990  Not in labor force, last worked 1988 or earlier  Not in labor force, never worked</p> <p>Not enrolled in school:  (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST  WORKED)</p> <p>High school graduate (includes equivalency):  (Repeat SCHOOL ENROLLMENT By EMPLOYMENT STATUS, HOURS  WORKED, AND YEAR LAST WORKED)</p> <p>Some college or associate degree:  (Repeat SCHOOL ENROLLMENT By EMPLOYMENT STATUS, HOURS  WORKED, AND YEAR LAST WORKED)</p> <p>Bachelor's degree:  (Repeat SCHOOL ENROLLMENT By EMPLOYMENT STATUS, HOURS  WORKED, AND YEAR LAST WORKED)</p> <p>Graduate or professional degree:  (Repeat SCHOOL ENROLLMENT By EMPLOYMENT STATUS, HOURS  WORKED, AND YEAR LAST WORKED)</p> <p>Female:  (Repeat EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT By  EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p>	200
PB20.	<p><b>SEX(2) BY AGE(5) BY VETERAN STATUS(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10)</b></p> <p><i>Universe: Civilian noninstitutionalized persons 25 to 64 years</i></p> <p>Male:</p> <p>25 to 34 years:  Veteran:  Employed, at work 35 or more hours  Employed, at work 15 to 34 hours  Employed, at work 1 to 14 hours  Employed, with a job, but not at work  Unemployed, last worked 1989 or 1990  Unemployed, last worked 1988 or earlier  Unemployed, never worked  Not in labor force, last worked 1989 or 1990  Not in labor force, last worked 1988 or earlier  Not in labor force, never worked</p> <p>Nonveteran:  (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)</p> <p>35 to 44 years:  (Repeat VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED, AND  YEAR LAST WORKED)</p> <p>45 to 54 years:  (Repeat VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED, AND  YEAR LAST WORKED)</p> <p>55 to 59 years:  (Repeat VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED, AND  YEAR LAST WORKED)</p> <p>60 to 64 years:  (Repeat VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED, AND  YEAR LAST WORKED)</p> <p>Female:  (Repeat AGE By VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED,  AND YEAR LAST WORKED)</p>	200



Table (matrix)	Title	Total number of data cells
PB21.	SEX(2) BY AGE(6) BY VEHICLES AVAILABLE(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10)..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years in housing units</i> Male: 16 to 24 years: In housing unit with 1 or more vehicles available: Employed, at work 35 or more hours Employed, at work 15 to 34 hours Employed, at work 1 to 14 hours Employed, with a job, but not at work Unemployed, last worked 1989 or 1990 Unemployed, last worked 1988 or earlier Unemployed, never worked Not in labor force, last worked 1989 or 1990 Not in labor force, last worked 1988 or earlier Not in labor force, never worked In housing unit with no vehicles available: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 25 to 34 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 35 to 44 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 45 to 54 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 55 to 59 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) 60 to 64 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) Female: (Repeat AGE By VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)	240
PB22.	SEX(2) BY RACE(5) BY AGE(6) BY WORK STATUS IN 1989(4) ..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years</i> Male: White: 16 to 24 years: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks Worked in 1989, usually worked 1 to 34 hours per week Did not work in 1989 25 to 34 years: (Repeat WORK STATUS IN 1989) 35 to 44 years: (Repeat WORK STATUS IN 1989) 45 to 54 years: (Repeat WORK STATUS IN 1989) 55 to 59 years: (Repeat WORK STATUS IN 1989) 60 to 64 years: (Repeat WORK STATUS IN 1989) Black: (Repeat AGE By WORK STATUS IN 1989) American Indian, Eskimo, or Aleut: (Repeat AGE By WORK STATUS IN 1989) Asian or Pacific Islander: (Repeat AGE By WORK STATUS IN 1989)	240

Table (matrix)	Title	Total number of data cells
PB22.	SEX(2) BY RACE(5) BY AGE(6) BY WORK STATUS IN 1989(4)—Con. Other race: (Repeat AGE By WORK STATUS IN 1989) Female: (Repeat RACE By AGE By WORK STATUS IN 1989)	
PB23.	SEX(2) BY RACE AND HISPANIC ORIGIN(3) BY AGE(6) BY WORK STATUS IN 1989(4) ..... Universe: <i>Civilian noninstitutionalized persons 16 to 64 years</i> Male: Hispanic origin: 16 to 24 years: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks Worked in 1989, usually worked 1 to 34 hours per week Did not work in 1989 25 to 34 years: (Repeat WORK STATUS IN 1989) 35 to 44 years: (Repeat WORK STATUS IN 1989) 45 to 54 years: (Repeat WORK STATUS IN 1989) 55 to 59 years: (Repeat WORK STATUS IN 1989) 60 to 64 years: (Repeat WORK STATUS IN 1989) White, not of Hispanic origin: (Repeat AGE By WORK STATUS IN 1989) Other races, not of Hispanic origin: (Repeat AGE By WORK STATUS IN 1989) Female: (Repeat RACE AND HISPANIC ORIGIN By AGE By WORK STATUS IN 1989)	144
PB24.	SEX(2) BY WORK STATUS IN 1989(4) BY HOUSEHOLD TYPE AND RELATIONSHIP(15) ..... Universe: <i>Civilian noninstitutionalized persons 16 to 64 years</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: In married-couple family households: Householder or spouse: With own children under 18 years No own children under 18 years Parent Child Other relatives Nonrelatives In other family households: Householder: With own children under 18 years No own children under 18 years Parent Child Other relatives Nonrelatives In nonfamily households: Living alone Not living alone In group quarters Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP) Did not work in 1989: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)	120

Table (matrix)	Title	Total number of data cells
PB24.	SEX(2) BY WORK STATUS IN 1989(4) BY HOUSEHOLD TYPE AND RELATIONSHIP(15)—Con. Female: (Repeat WORK STATUS IN 1989 By HOUSEHOLD TYPE AND RELATIONSHIP)	
PB25.	SEX(2) BY AGE(5) BY EDUCATIONAL ATTAINMENT(5) BY WORK STATUS IN 1989(4)..... Universe: <i>Civilian noninstitutionalized persons 25 to 64 years</i> Male: 25 to 34 years: Not high school graduate: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks Worked in 1989, usually worked 1 to 34 hours per week Did not work in 1989 High school graduate (includes equivalency): (Repeat WORK STATUS IN 1989) Some college or associate degree: (Repeat WORK STATUS IN 1989) Bachelor's degree: (Repeat WORK STATUS IN 1989) Graduate or professional degree: (Repeat WORK STATUS IN 1989) 35 to 44 years: (Repeat EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989) 45 to 54 years: (Repeat EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989) 55 to 59 years: (Repeat EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989) 60 to 64 years: (Repeat EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989) Female: (Repeat AGE By EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989)	200
PB26.	SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) BY WORK STATUS IN 1989(4) ..... Universe: <i>Civilian noninstitutionalized persons 16 to 24 years</i> Male: Not high school graduate: Enrolled in school: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks Worked in 1989, usually worked 1 to 34 hours per week Did not work in 1989 Not enrolled in school: (Repeat WORK STATUS IN 1989) High school graduate (includes equivalency): (Repeat SCHOOL ENROLLMENT By WORK STATUS IN 1989) Some college or associate degree: (Repeat SCHOOL ENROLLMENT By WORK STATUS IN 1989) Bachelor's degree: (Repeat SCHOOL ENROLLMENT By WORK STATUS IN 1989) Graduate or professional degree: (Repeat SCHOOL ENROLLMENT By WORK STATUS IN 1989) Female: (Repeat EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT By WORK STATUS IN 1989)	80

Table (matrix)	Title	Total number of data cells
PB27.	SEX(2) BY AGE(5) BY VETERAN STATUS(2) BY WORK STATUS IN 1989(4) ..... Universe: <i>Civilian noninstitutionalized persons 25 to 64 years</i> Male: 25 to 34 years: Veteran: Worked In 1989, usually worked 35 or more hours per week, 50 to 52 weeks Worked In 1989, usually worked 35 or more hours per week, 1 to 49 weeks Worked In 1989, usually worked 1 to 34 hours per week Did not work in 1989 Nonveteran: (Repeat WORK STATUS IN 1989) 35 to 44 years: (Repeat VETERAN STATUS By WORK STATUS IN 1989) 45 to 54 years: (Repeat VETERAN STATUS By WORK STATUS IN 1989) 55 to 59 years: (Repeat VETERAN STATUS By WORK STATUS IN 1989) 60 to 64 years: (Repeat VETERAN STATUS By WORK STATUS IN 1989) Female: (Repeat AGE By VETERAN STATUS By WORK STATUS IN 1989)	8
PB28.	SEX(2) BY AGE(5) BY VEHICLES AVAILABLE(2) BY WORK STATUS IN 1989(4) ..... Universe: <i>Civilian noninstitutionalized persons 16 to 64 years in housing units</i> Male: 16 to 24 years: In housing unit with 1 or more vehicles available: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks Worked in 1989, usually worked 1 to 34 hours per week Did not work in 1989 In housing unit with no vehicles available: (Repeat WORK STATUS IN 1989) 25 to 34 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989) 35 to 44 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989) 45 to 54 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989) 55 to 59 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989) 60 to 64 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989) Female: (Repeat AGE By VEHICLES AVAILABLE By WORK STATUS IN 1989)	9
PB29.	FILLER .....	184
PB30.	FILLER .....	101
PB31.	FILLER .....	96
PB32.	FILLER .....	154
PB33.	FILLER .....	64
PB34.	FILLER .....	44
PB35.	FILLER .....	12

Table (matrix)	Title	Total number of data cells
PB36.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY RACE(5) BY AGE(6) ..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: White: 16 to 24 years 25 to 34 years 35 to 44 years 45 to 54 years 55 to 59 years 60 to 64 years Black: (Repeat AGE) American Indian, Eskimo, or Aleut: (Repeat AGE) Asian or Pacific Islander: (Repeat AGE) Other race: (Repeat AGE) Female: (Repeat RACE By AGE) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By RACE By AGE)	18
PB37.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY RACE AND HISPANIC ORIGIN(3) BY AGE(6) ..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Hispanic origin: 16 to 24 years 25 to 34 years 35 to 44 years 45 to 54 years 55 to 59 years 60 to 64 years White, not of Hispanic origin: (Repeat AGE) Other races, not of Hispanic origin: (Repeat AGE) Female: (Repeat RACE AND HISPANIC ORIGIN By AGE) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By RACE AND HISPANIC ORIGIN By AGE) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By RACE AND HISPANIC ORIGIN By AGE)	108
PB38.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY HOUSEHOLD TYPE AND RELATIONSHIP(15) ..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: In married-couple family households: Householder or spouse: With own children under 18 years No own children under 18 years Parent Child Other relatives	9

Table (matrix)	Title	Total number of data cell
PB38.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY HOUSEHOLD TYPE AND RELATIONSHIP(15)-Con. Nonrelatives In other family households: Householder: With own children under 18 years No own children under 18 years Parent Child Other relatives Nonrelatives In nonfamily households: Living alone Not living alone In group quarters Female: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By HOUSEHOLD TYPE AND RELATIONSHIP) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By HOUSEHOLD TYPE AND RELATIONSHIP)	
PB39.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY AGE(4) BY EDUCATIONAL ATTAINMENT(5).....	121
	Universe: Civilian noninstitutionalized persons 25 to 64 years who worked in 1989 Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: 25 to 34 years: Not high school graduate High school graduate (includes equivalency) Some college or associate degree Bachelor's degree Graduate or professional degree 35 to 44 years: (Repeat EDUCATIONAL ATTAINMENT) 45 to 54 years: (Repeat EDUCATIONAL ATTAINMENT) 55 to 64 years: (Repeat EDUCATIONAL ATTAINMENT) Female: (Repeat AGE By EDUCATIONAL ATTAINMENT) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By AGE By EDUCATIONAL ATTAINMENT) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By AGE By EDUCATIONAL ATTAINMENT)	
PB40.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) .....	61
	Universe: Civilian noninstitutionalized persons 16 to 24 years who worked in 1989 Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Not high school graduate: Enrolled in school Not enrolled in school High school graduate (includes equivalency): (Repeat SCHOOL ENROLLMENT) Some college or associate degree: (Repeat SCHOOL ENROLLMENT) Bachelor's degree: (Repeat SCHOOL ENROLLMENT)	

Table (matrix)	Title	Total number of data cell
PB40.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2)-Con. Graduate or professional degree: (Repeat SCHOOL ENROLLMENT) Female: (Repeat EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT)	
PB41.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY AGE(4) BY VETERAN STATUS(2)..... <i>Universe: Civilian noninstitutionalized persons 25 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: 25 to 34 years: Veteran Nonveteran 35 to 44 years: (Repeat VETERAN STATUS) 45 to 54 years: (Repeat VETERAN STATUS) 55 to 64 years: (Repeat VETERAN STATUS) Female: (Repeat AGE By VETERAN STATUS) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By AGE By VETERAN STATUS) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By AGE By VETERAN STATUS)	41
PB42.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY VEHICLES AVAILABLE(2) ..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years in housing units who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: In housing unit with 1 or more vehicles available In housing unit with no vehicles available Female: (Repeat VEHICLES AVAILABLE) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By VEHICLES AVAILABLE) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By VEHICLES AVAILABLE)	12
PB43.	SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81)..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Executive and administrative occupations, excluding management related occupations (000-022) Management related occupations (023-042) Engineers, architects, and surveyors (043-063) Mathematical and computer scientists (064-068) Natural scientists (069-083) Physicians (084) Dentists (085) Other health diagnosing occupations (086-094) Registered nurses (095)	486

## PB43. SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81)-Con.

Pharmacists (096)  
 Other health assessment and treating occupations (097-112)  
 Teachers, postsecondary (113-154)  
 Teachers, except postsecondary (155-162)  
 Counselors, educational and vocational (163)  
 Librarians, archivists, and curators (164-165)  
 Social scientists and urban planners (166-173)  
 Social, recreation, and religious workers (174-177)  
 Lawyers and judges (178-182)  
 Writers, artists, entertainers, and athletes (183-202)  
 Health technologists and technicians (203-212)  
 Engineering and related technologists and technicians (213-222)  
 Science technicians (223-225)  
 Computer programmers (229-232)  
 Other technicians, except health, engineering, and science (226-228, 233-242)  
 Supervisors and proprietors, sales occupations (243-252)  
 Sales representatives, finance and business services (253-257)  
 Sales representatives, commodities except retail (258-262)  
 Sales workers, retail and personal services (263-282)  
 Sales related occupations (283-302)  
 Supervisors, administrative support occupations (303-307)  
 Computer equipment operators (308-312)  
 Secretaries, stenographers, and typists (313-315)  
 Information clerks (316-324)  
 Records processing occupations, except financial (325-336)  
 Financial records processing occupations (337-344)  
 Duplicating, mail and other office machine operators (345-347)  
 Communications equipment operators (348-353)  
 Mail and message distributing occupations (354-358)  
 Material recording, scheduling, and distributing clerks (359-374)  
 Adjusters and investigators (375-378)  
 Miscellaneous administrative support occupations (379-402)  
 Private household occupations (403-412)  
 Supervisors, protective service occupations (413-415)  
 Firefighting and fire prevention occupations (416-417)  
 Police and detectives (418-424)  
 Guards (425-432)  
 Food preparation and service occupations (433-444)  
 Health service occupations (445-447)  
 Cleaning and building service occupations, except household (448-455)  
 Personal service occupations (456-472)  
 Farm operators and managers (473-476)  
 Farm occupations, except managerial (477-484)  
 Related agricultural occupations (485-493)  
 Forestry and logging occupations (494-496)  
 Fishers, hunters, and trappers (497-502)  
 Mechanics and repairers (503-552)  
 Construction trades (553-612)  
 Extractive occupations (613-627)  
 Supervisors, production occupations (628-633)  
 Precision metal working occupations (634-655)  
 Precision woodworking occupations (656-665)  
 Precision textile, apparel, and furnishings machine workers (666-674)  
 Precision workers, assorted materials (675-685)  
 Precision food production occupations (686-688)  
 Precision inspectors, testers, and related workers (689-693)  
 Plant and system operators (694-702)  
 Metal working and plastic working machine operators (703-716)  
 Fabricating machine operators, n.e.c. (717-718)  
 Metal and plastic processing machine operators (719-725)  
 Woodworking machine operators (726-733)  
 Printing machine operators (734-737)



Table (matrix)	Title	Total number of data cell:
PB43.	SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81)-Con. Textile, apparel, and furnishings machine operators (738-752) Machine operators, assorted materials (753-782) Fabricators, assemblers, and hand working occupations (783-795) Production inspectors, testers, samplers, and weighers (796-802) Motor vehicle operators (803-822) Rail transportation occupations (823-827) Water transportation occupations (828-842) Material moving equipment operators (843-863) Handlers, equipment cleaners, helpers, and laborers (864-902) Unemployed, last occupation military (903-908) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat OCCUPATION) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat OCCUPATION) Female: (Repeat WORK STATUS IN 1989 By OCCUPATION)	
PB44.	FILLER.....	486
PB45.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY OCCUPATION(81)..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Executive and administrative occupations, excluding management related occupations (000-022) Management related occupations (023-042) Engineers, architects, and surveyors (043-063) Mathematical and computer scientists (064-068) Natural scientists (069-083) Physicians (084) Dentists (085) Other health diagnosing occupations (086-094) Registered nurses (095) Pharmacists (096) Other health assessment and treating occupations (097-112) Teachers, postsecondary (113-154) Teachers, except postsecondary (155-162) Counselors, educational and vocational (163) Librarians, archivists, and curators (164-165) Social scientists and urban planners (166-173) Social, recreation, and religious workers (174-177) Lawyers and judges (178-182) Writers, artists, entertainers, and athletes (183-202) Health technologists and technicians (203-212) Engineering and related technologists and technicians (213-222) Science technicians (223-225) Computer programmers (229-232) Other technicians, except health, engineering, and science (226-228, 233-242) Supervisors and proprietors, sales occupations (243-252) Sales representatives, finance and business services (253-257) Sales representatives, commodities except retail (258-262) Sales workers, retail and personal services (263-282) Sales related occupations (283-302) Supervisors, administrative support occupations (303-307) Computer equipment operators (308-312) Secretaries, stenographers, and typists (313-315) Information clerks (316-324) Records processing occupations, except financial (325-336) Financial records processing occupations (337-344)	486

Table (matrix)	Title	Total number of data cell
PB45.	<p>AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY OCCUPATION(81)—Con.</p> <p>Duplicating, mail and other office machine operators (345-347)  Communications equipment operators (348-353)  Mail and message distributing occupations (354-358)  Material recording, scheduling, and distributing clerks (359-374)  Adjusters and investigators (375-379)  Miscellaneous administrative support occupations (379-402)  Private household occupations (403-412)  Supervisors, protective service occupations (413-415)  Firefighting and fire prevention occupations (416-417)  Police and detectives (418-424)  Guards (425-432)  Food preparation and service occupations (433-444)  Health service occupations (445-447)  Cleaning and building service occupations, except household (448-455)  Personal service occupations (456-472)  Farm operators and managers (473-476)  Farm occupations, except managerial (477-484)  Related agricultural occupations (485-493)  Forestry and logging occupations (494-496)  Fishers, hunters, and trappers (497-502)  Mechanics and repairers (503-552)  Construction trades (553-612)  Extractive occupations (613-627)  Supervisors, production occupations (628-633)  Precision metal working occupations (634-655)  Precision woodworking occupations (656-665)  Precision textile, apparel, and furnishings machine workers (666-674)  Precision workers, assorted materials (675-685)  Precision food production occupations (686-688)  Precision inspectors, testers, and related workers (689-693)  Plant and system operators (694-702)  Metal working and plastic working machine operators (703-716)  Fabricating machine operators, n.e.c. (717-718)  Metal and plastic processing machine operators (719-725)  Woodworking machine operators (726-733)  Printing machine operators (734-737)  Textile, apparel, and furnishings machine operators (738-752)  Machine operators, assorted materials (753-782)  Fabricators, assemblers, and hand working occupations (783-796)  Production inspectors, testers, samplers, and weighers (796-802)  Motor vehicle operators (803-822)  Rail transportation occupations (823-827)  Water transportation occupations (828-842)  Material moving equipment operators (843-863)  Handlers, equipment cleaners, helpers, and laborers (864-902)  Unemployed, last occupation military (903-908)</p> <p>Female:  (Repeat OCCUPATION)  Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks:  (Repeat SEX By OCCUPATION)  Worked in 1989, usually worked 1 to 34 hours per week:  (Repeat SEX By OCCUPATION)</p>	
PB46.	<p>SEX(2) BY WORK STATUS IN 1989(3) BY INDUSTRY(17) .....</p> <p>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</p> <p>Male:  Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:  Agriculture, forestry, and fisheries (000-039)  Mining (040-059)  Construction (060-099)  Manufacturing, nondurable goods (100-229)</p>	101

Table (matrix)	Title	Total number of data cell
PB46.	SEX(2) BY WORK STATUS IN 1989(3) BY INDUSTRY(17)-Con. Manufacturing, durable goods (230-399) Transportation (400-439) Communications and other public utilities (440-499) Wholesale trade (500-579) Retail trade (580-699) Finance, insurance, and real estate (700-720) Business and repair services (721-760) Personal services (761-799) Entertainment and recreation services (800-811) Professional and related services, health services (812-840) Professional and related services, educational services (842-860) Other professional and related services (841, 861-899) Public administration (900-939) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat INDUSTRY) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat INDUSTRY) Female: (Repeat WORK STATUS IN 1989 By INDUSTRY)	
PB47.	FILLER.....	102
PB48.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY INDUSTRY(17) ..... Universe: <i>Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Agriculture, forestry, and fisheries (000-039) Mining (040-059) Construction (060-099) Manufacturing, nondurable goods (100-229) Manufacturing, durable goods (230-399) Transportation (400-439) Communications and other public utilities (440-499) Wholesale trade (500-579) Retail trade (580-699) Finance, insurance, and real estate (700-720) Business and repair services (721-760) Personal services (761-799) Entertainment and recreation services (800-811) Professional and related services, health services (812-840) Professional and related services, educational services (842-860) Other professional and related services (841, 861-899) Public administration (900-939) Female: (Repeat INDUSTRY) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By INDUSTRY) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By INDUSTRY)	102
PB49.	SEX(2) BY WORK STATUS IN 1989(3) BY CLASS OF WORKER(7) ..... Universe: <i>Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Private for profit wage and salary workers Private not-for-profit wage and salary workers Local government workers State government workers Federal government workers Self-employed workers Unpaid family workers	42

Table (matrix)	Title	Total number of data cell
PB49.	SEX(2) BY WORK STATUS IN 1989(3) BY CLASS OF WORKER(7)-Con. Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat CLASS OF WORKER) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat CLASS OF WORKER) Female: (Repeat WORK STATUS IN 1989 By CLASS OF WORKER)	
PB50.	FILLER .....	4:
PB51.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY CLASS OF WORKER(7) ..... Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989 Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Private for profit wage and salary workers Private not-for-profit wage and salary workers Local government workers State government workers Federal government workers Self-employed workers Unpaid family workers Female: (Repeat CLASS OF WORKER) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By CLASS OF WORKER) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By CLASS OF WORKER)	4:
PB52.	SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81) ..... Universe: Civilian noninstitutionalized persons 35 to 64 years who worked in 1989 Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Executive and administrative occupations, excluding management related occupations (000-022) Management related occupations (023-042) Engineers, architects, and surveyors (043-063) Mathematical and computer scientists (064-069) Natural scientists (069-083) Physicians (084) Dentists (085) Other health diagnosing occupations (086-094) Registered nurses (095) Pharmacists (096) Other health assessment and treating occupations (097-112) Teachers, postsecondary (113-154) Teachers, except postsecondary (155-162) Counselors, educational and vocational (163) Librarians, archivists, and curators (164-166) Social scientists and urban planners (166-173) Social, recreation, and religious workers (174-177) Lawyers and judges (178-182) Writers, artists, entertainers, and athletes (183-202) Health technologists and technicians (203-212) Engineering and related technologists and technicians (213-222) Science technicians (223-225) Computer programmers (229-232) Other technicians, except health, engineering, and science(226-228, 233-242) Supervisors and proprietors, sales occupations (243-252) Sales representatives, finance and business services (253-257) Sales representatives, commodities except retail (258-262) Sales workers, retail and personal services (263-282)	48:

PB52. SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81)-Con.

Sales related occupations (283-302)  
Supervisors, administrative support occupations (303-307)  
Computer equipment operators (308-312)  
Secretaries, stenographers, and typists (313-315)  
Information clerks (316-324)  
Records processing occupations, except financial (325-336)  
Financial records processing occupations (337-344)  
Duplicating, mail and other office machine operators (345-347)  
Communications equipment operators (348-353)  
Mail and message distributing occupations (354-358)  
Material recording, scheduling, and distributing clerks (359-374)  
Adjusters and Investigators (375-378)  
Miscellaneous administrative support occupations (379-402)  
Private household occupations (403-412)  
Supervisors, protective service occupations (413-415)  
Firefighting and fire prevention occupations (416-417)  
Police and detectives (418-424)  
Guards (425-432)  
Food preparation and service occupations (433-444)  
Health service occupations (445-447)  
Cleaning and building service occupations, except household (448-455)  
Personal service occupations (456-472)  
Farm operators and managers (473-476)  
Farm occupations, except managerial (477-484)  
Related agricultural occupations (485-493)  
Forestry and logging occupations (494-496)  
Fishers, hunters, and trappers (497-502)  
Mechanics and repairers (503-552)  
Construction trades (553-612)  
Extractive occupations (613-627)  
Supervisors, production occupations (628-633)  
Precision metal working occupations (634-655)  
Precision woodworking occupations (656-665)  
Precision textile, apparel, and furnishings machine workers (666-674)  
Precision workers, assorted materials (675-685)  
Precision food production occupations (686-689)  
Precision inspectors, testers, and related workers (689-693)  
Plant and system operators (694-702)  
Metal working and plastic working machine operators (703-716)  
Fabricating machine operators, n.e.c. (717-718)  
Metal and plastic processing machine operators (719-725)  
Woodworking machine operators (726-733)  
Printing machine operators (734-737)  
Textile, apparel, and furnishings machine operators (738-752)  
Machine operators, assorted materials (753-782)  
Fabricators, assemblers, and hand working occupations (783-795)  
Production inspectors, testers, samplers, and weighers (796-802)  
Motor vehicle operators (803-822)  
Rail transportation occupations (823-827)  
Water transportation occupations (828-842)  
Material moving equipment operators (843-853)  
Handlers, equipment cleaners, helpers, and laborers (854-902)  
Unemployed, last occupation military (903-908)

Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks:  
(Repeat OCCUPATION)

Worked in 1989, usually worked 1 to 34 hours per week:  
(Repeat OCCUPATION)

Female:  
(Repeat WORK STATUS IN 1989 BY OCCUPATION)

Table (matrix)	Title	Total number of data cells
PB53.	FILLER .....	48
PB54.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY OCCUPATION(B1).....	48
	Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989	
	Total:	
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:	
	Male:	
	Executive and administrative occupations, related occupations (000-022)	
	Management related occupations (023-042)	
	Engineers, architects, and surveyors (043-063)	
	Mathematical and computer scientists (064-068)	
	Natural scientists (069-083)	
	Physicians (084)	
	Dentists (085)	
	Other health diagnosing occupations (086-094)	
	Registered nurses (095)	
	Pharmacists (096)	
	Other health assessment and treating occupations (097-112)	
	Teachers, postsecondary (113-154)	
	Teachers, except postsecondary (155-162)	
	Counselors, educational and vocational (163)	
	Librarians, archivists, and curators (164-165)	
	Social scientists and urban planners (166-173)	
	Social, recreation, and religious workers (174-177)	
	Lawyers and judges (178-182)	
	Writers, artists, entertainers, and athletes (183-202)	
	Health technologists and technicians (203-212)	
	Engineering and related technologists and technicians (213-222)	
	Science technicians (223-225)	
	Computer programmers (226-232)	
	Other technicians, except health, engineering, and science(226-228, 233-242)	
	Supervisors and proprietors, sales occupations (243-252)	
	Sales representatives, finance and business services (253-257)	
	Sales representatives, commodities except retail (258-262)	
	Sales workers, retail and personal services (263-282)	
	Sales related occupations (283-302)	
	Supervisors, administrative support occupations (303-307)	
	Computer equipment operators (308-312)	
	Secretaries, stenographers, and typists (313-315)	
	Information clerks (316-324)	
	Records processing occupations, except financial (325-336)	
	Financial records processing occupations (337-344)	
	Duplicating, mail and other office machine operators (345-347)	
	Communications equipment operators (348-353)	
	Mail and message distributing occupations (354-358)	
	Material recording, scheduling, and distributing clerks (359-374)	
	Adjusters and investigators (375-378)	
	Miscellaneous administrative support occupations (379-402)	
	Private household occupations (403-412)	
	Supervisors, protective service occupations (413-415)	
	Firefighting and fire prevention occupations (416-417)	
	Police and detectives (418-424)	
	Guards (425-432)	
	Food preparation and service occupations (433-444)	
	Health service occupations (445-447)	
	Cleaning and building service occupations, except household (448-455)	
	Personal service occupations (456-472)	
	Farm operators and managers (473-476)	
	Farm occupations, except managerial (477-484)	
	Related agricultural occupations (485-493)	
	Forestry and logging occupations (494-496)	
	Fishers, hunters, and trappers (497-502)	

PB54. AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3)  
BY SEX(2) BY OCCUPATION(81)-Con.

Mechanics and repairers (503-552)  
Construction trades (553-612)  
Extractive occupations (613-627)  
Supervisors, production occupations (628-633)  
Precision metal working occupations (634-655)  
Precision woodworking occupations (656-665)  
Precision textile, apparel, and furnishings machine workers (666-674)  
Precision workers, assorted materials (675-685)  
Precision food production occupations (686-688)  
Precision inspectors, testers, and related workers (689-693)  
Plant and system operators (694-702)  
Metal working and plastic working machine operators (703-716)  
Fabricating machine operators, n.e.c. (717-718)  
Metal and plastic processing machine operators (719-725)  
Woodworking machine operators (726-733)  
Printing machine operators (734-737)  
Textile, apparel, and furnishings machine operators (738-752)  
Machine operators, assorted materials (753-782)  
Fabricators, assemblers, and hand working occupations (783-795)  
Production inspectors, testers, samplers, and weighers (796-802)  
Motor vehicle operators (803-822)  
Rail transportation occupations (823-827)  
Water transportation occupations (828-842)  
Material moving equipment operators (843-863)  
Handlers, equipment cleaners, helpers, and laborers (864-902)  
Unemployed, last occupation military (903-908)

Female:

(Repeat OCCUPATION)

Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks:

(Repeat SEX By OCCUPATION)

Worked in 1989, usually worked 1 to 34 hours per week:

(Repeat SEX By OCCUPATION)

PB55. SEX(2) BY WORK STATUS IN 1989(3) BY INDUSTRY(17)..... 102

Universe: Civilian noninstitutionalized persons 35 to 64 years who worked in 1989

Male:

Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:

Agriculture, forestry, and fisheries (000-039)

Mining (040-059)

Construction (060-099)

Manufacturing, nondurable goods (100-229)

Manufacturing, durable goods (230-399)

Transportation (400-439)

Communications and other public utilities (440-499)

Wholesale trade (500-579)

Retail trade (580-699)

Finance, insurance, and real estate (700-720)

Business and repair services (721-760)

Personal services (761-799)

Entertainment and recreation services (800-811)

Professional and related services, health services (812-840)

Professional and related services, educational services (842-860)

Other professional and related services (841, 861-899)

Public administration (900-939)

Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks:

(Repeat INDUSTRY)

Worked in 1989, usually worked 1 to 34 hours per week:

(Repeat INDUSTRY)

Female:

(Repeat WORK STATUS IN 1989 By INDUSTRY)

Table (matrix)	Title	Total number of data cell
PB56.	FILLER .....	10
PB57.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY INDUSTRY(17).....	10
	Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989	
	Total:	
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:	
	Male:	
	Agriculture, forestry, and fisheries (000-039)	
	Mining (040-059)	
	Construction (060-099)	
	Manufacturing, nondurable goods (100-229)	
	Manufacturing, durable goods (230-399)	
	Transportation (400-439)	
	Communications and other public utilities (440-499)	
	Wholesale trade (500-579)	
	Retail trade (580-699)	
	Finance, insurance, and real estate (700-720)	
	Business and repair services (721-760)	
	Personal services (761-799)	
	Entertainment and recreation services (800-811)	
	Professional and related services, health services (812-840)	
	Professional and related services, educational services (842-860)	
	Other professional and related services (841, 861-899)	
	Public administration (900-939)	
	Female:	
	(Repeat INDUSTRY)	
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks:	
	(Repeat SEX By INDUSTRY)	
	Worked in 1989, usually worked 1 to 34 hours per week:	
	(Repeat SEX By INDUSTRY)	
PB58.	SEX(2) BY WORK STATUS IN 1989(3) BY CLASS OF WORKER(7).....	4:
	Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989	
	Male:	
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:	
	Private for profit wage and salary workers	
	Private not-for-profit wage and salary workers	
	Local government workers	
	State government workers	
	Federal government workers	
	Self-employed workers	
	Unpaid family workers	
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks:	
	(Repeat CLASS OF WORKER)	
	Worked in 1989, usually worked 1 to 34 hours per week:	
	(Repeat CLASS OF WORKER)	
	Female:	
	(Repeat WORK STATUS IN 1989 By CLASS OF WORKER)	
PB59.	FILLER .....	4:
PB60.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY CLASS OF WORKER(7) .....	4:
	Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989	
	Total:	
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:	
	Male:	
	Private for profit wage and salary workers	
	Private not-for-profit wage and salary workers	
	Local government workers	
	State government workers	
	Federal government workers	



Table (matrix)	Title	Total number of data cells
PB60.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY CLASS OF WORKER(7)-Con. Self-employed workers Unpaid family workers Female: (Repeat CLASS OF WORKER) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By CLASS OF WORKER) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By CLASS OF WORKER)	
PB61.	SEX(2) BY WORK STATUS IN 1989(3) BY MEANS OF TRANSPORTATION TO WORK(13)..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked            in 1989 and who worked during reference week</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Car, truck, or van: Drove alone Carpooled Public transportation: Bus or trolley bus Streetcar or trolley car Subway or elevated Railroad Ferryboat Taxicab Motorcycle Bicycle Walked Other means Worked at home Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat MEANS OF TRANSPORTATION TO WORK) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat MEANS OF TRANSPORTATION TO WORK) Female: (Repeat WORK STATUS IN 1989 By MEANS OF TRANSPORTATION TO WORK)	78
PB62.	FILLER.....	78
PB63.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY MEANS OF TRANSPORTATION TO WORK(13) ..... <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who            worked in 1989 and who worked during reference week</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Car, truck, or van: Drove alone Carpooled Public transportation: Bus or trolley bus Streetcar or trolley car Subway or elevated Railroad Ferryboat Taxicab Motorcycle Bicycle Walked Other means Worked at home	78

Table (matrix)	Title	Total number of data cells
PB63.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY MEANS OF TRANSPORTATION TO WORK(13)-Con. Female: (Repeat MEANS OF TRANSPORTATION TO WORK) Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By MEANS OF TRANSPORTATION TO WORK) Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By MEANS OF TRANSPORTATION TO WORK)	
PB64.	SEX(2) BY AGE(7) BY RECEIPT OF WAGE AND SALARY INCOME IN 1989(2) ..... <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With wage or salary income No wage or salary income 25 to 34 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989) 35 to 44 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989) 45 to 54 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989) 55 to 64 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989) 65 to 74 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989) 75 years and over: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989) Female: (Repeat AGE By RECEIPT OF WAGE AND SALARY INCOME IN 1989)	28
PB65.	SEX(2) BY AGE(7) BY RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989(2) ..... <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With nonfarm self-employment income No nonfarm self-employment income 25 to 34 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989) 35 to 44 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989) 45 to 54 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989) 55 to 64 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989) 65 to 74 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989) 75 years and over: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989) Female: (Repeat AGE By RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989)	28
PB66.	SEX(2) BY AGE(7) BY RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989(2) ..... <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With farm self-employment income No farm self-employment income 25 to 34 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989) 35 to 44 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989)	28

Table (matrix)	Title	Total number of data cells
PB66.	SEX(2) BY AGE(7) BY RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989(2)-Con. 45 to 54 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989) 55 to 64 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989) 65 to 74 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989) 75 years and over: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989) Female: (Repeat AGE By RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989)	
PB67.	SEX(2) BY AGE(7) BY RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989(2) ..... Universe: <i>Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With interest, dividend, or net rental income No interest, dividend, or net rental income 25 to 34 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) 35 to 44 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) 45 to 54 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) 55 to 64 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) 65 to 74 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) 75 years and over: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) Female: (Repeat AGE By RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989)	29
PB68.	SEX(2) BY AGE(7) BY RECEIPT OF SOCIAL SECURITY INCOME IN 1989(2) ..... Universe: <i>Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With Social Security income No Social Security income 25 to 34 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) 35 to 44 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) 45 to 54 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) 55 to 64 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) 65 to 74 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) 75 years and over: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) Female: (Repeat AGE By RECEIPT OF SOCIAL SECURITY INCOME IN 1989)	28
PB69.	SEX(2) BY AGE(7) BY RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989(2) ..... Universe: <i>Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With public assistance income No public assistance income 25 to 34 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989)	28

Table (matrix)	Title	Total number of data cells
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PB69.	SEX(2) BY AGE(7) BY RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989(2)-Con. 35 to 44 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) 45 to 54 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) 55 to 64 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) 65 to 74 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) 75 years and over: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) Female: (Repeat AGE By RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989)	
PB70.	SEX(2) BY AGE(7) BY RECEIPT OF RETIREMENT INCOME IN 1989(2)..... Universe: Civilian noninstitutionalized persons 16 years and over Male: 16 to 24 years: With retirement income No retirement income 25 to 34 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) 35 to 44 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) 45 to 54 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) 55 to 64 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) 65 to 74 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) 75 years and over: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) Female: (Repeat AGE By RECEIPT OF RETIREMENT INCOME IN 1989)	2

# SUMMARY LEVEL SEQUENCE CHART

Summary level area	Summary level code	Geographic component code
United States	010	00 20 30
State	040	00
State—County [50,000 or more persons]	053	00
Metropolitan Statistical Area/Consolidated Metropolitan Statistical Area [250,000 or more persons]	305	00
Consolidated Metropolitan Statistical Area [250,000 or more persons]—Primary Metropolitan Statistical Area	306	00

## USER NOTES

User notes supply file purchasers with additional or corrected information which becomes available after the technical documentation or files are prepared. They are issued in a numbered series and automatically mailed to all users who purchase their files from the Census Bureau. Other users may obtain them by subscribing to the user note series. Contact Customer Services (301-763-4100) for subscription information.

Each user note has a cover sheet which should be filed following this page. Technical documentation replacement pages will follow the cover sheet. These pages need to be filed in their proper location and the original pages destroyed. Replacement pages can be readily identified, since they have the user note date on the lower outside portion of each page.



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Bureau of the Census**  
Washington, DC 20233-0001

**CENSUS OF POPULATION AND HOUSING, 1990:  
SUBJECT SUMMARY TAPE FILE 4, CHARACTERISTICS OF ADULTS WITH  
WORK DISABILITIES, MOBILITY LIMITATIONS, OR SELF-CARE LIMITATIONS**

**USER NOTE 1**

**Age Reporting**—Review of detailed 1990 information indicated that respondents tended to provide their age as of the date of completion of the questionnaire, not their age as of April 1, 1990. In addition, there may have been a tendency for respondents to round up their age if they were close to having a birthday. It is likely that approximately 10 percent of persons in most age groups are actually 1 year younger. For most single years of age, the misstatements are largely offsetting. The problem is most pronounced at age 0 because persons lost to age 1 may not have been fully offset by the inclusion of babies born after April 1, 1990 and because

there may have been more rounding up to age 1 to avoid reporting age as 0 years. (Age in completed months was not collected for infants under age 1.)

The reporting of age 1 year older than age on April 1, 1990 is likely to have been greater in areas where the census data were collected later in 1990. The magnitude of this problem was much less in the three previous censuses where age was typically derived from respondent data on year of birth and quarter of birth. (For more information on the design of the age question, see the discussion on comparability under "Age" in appendix B.)

April 1994



**CENSUS OF POPULATION AND HOUSING, 1990:  
SUBJECT SUMMARY TAPE FILE 4, CHARACTERISTICS OF ADULTS WITH  
WORK DISABILITIES, MOBILITY LIMITATIONS, OR SELF-CARE LIMITATIONS**

**USER NOTE 2**

**Clarification of Differences Between 100-Percent Counts and Sample Estimates**—Estimated population and housing unit totals based on tabulations from only the sample questionnaires (sample tabulations) may differ from the official counts as tabulated from every census questionnaire (100-percent tabulations). Such differences result, in part, because the sample tabulations are based on information from a sample of households rather than from all households (sampling error). Differences also can occur because the interview situation (length of questionnaire, effect of the interviewer, and so forth) and the processing rules differ somewhat between the 100-percent and sample tabulations. These types of differences are reflected in what is called nonsampling error. (For a more detailed description of nonsampling error, see Appendix C, "Accuracy of the Data," in the technical documentation for Summary Tape File 3.)

The 100-percent data are the official counts and should be used as the source of information on items collected on the 100-percent questionnaire, such as race, Hispanic origin, age, and number of rooms in housing. This is especially appropriate when the primary focus is on counts of the population or housing units for small areas such as census tracts, block groups, and for American Indian and Alaska Native areas. For estimates of counts of persons and housing units by characteristics asked only on a sample basis (such as education, labor force status, income, and source of water), the sample estimates should be used within the context of the error associated with them.

Many users are interested in tabulations of items collected on the sample cross-classified by items collected on a 100-percent basis such as age, race, gender, Hispanic origin, and housing units by tenure. Given the way the weights were applied during sample tabulations, generally there is exact agreement between sample estimates and 100-percent counts for total population and total housing units for most geographic areas. At the state and higher levels, we also would expect that

sample estimates and 100-percent counts for population by race, age, gender, and Hispanic origin and for housing units by tenure, number of rooms, and so on, would be reasonably similar and, in some cases, the same. At smaller geographic levels, including census tract, there is still general agreement between 100-percent counts and sample estimates of total population or housing units. At smaller geographic levels, however, there will be expected differences between sample estimates and 100-percent counts for population by race, age, gender, and Hispanic origin and for housing units by tenure, number of rooms, and so on. In these cases, users may want to consider using derived measures (mean, median, and so on) or percent distributions. Whether using absolute numbers or derived measures for small population groups and for a small number of housing units in small geographic areas, users should be cautioned that the sampling error associated with these data may be large.

Even though the differences between sample estimates and 100-percent counts for these categories are generally small, the differences for the American Indian as well as the Hispanic origin populations are relatively larger than for other groups. The following provides some explanation for these differences.

State-level sample estimates of the number of American Indians are generally higher than the corresponding 100-percent counts. It appears the differences are primarily the result of proportionately higher reporting of "Cherokee" tribe on sample questionnaires. This phenomenon occurs primarily in off-reservation areas. The reasons for the greater reporting of Cherokee on sample forms are not fully known at this time. The Census Bureau will do research to provide more information on this phenomenon.

For the Hispanic origin population, sample estimates at the state level are generally lower than the corresponding 100-percent counts. The majority of difference is caused by the 100-percent and sample processing of the Hispanic question on the sample



questionnaire when the respondent did not mark any response category. When processing the sample, we used written entries in race or Hispanic origin as well as responses to questions only asked on the sample, such as ancestry and place of birth. These procedures led to a lower proportion of persons being assigned as Hispanic in sample processing than were assigned during 100-percent processing. The Census Bureau will evaluate the effectiveness of the 100-percent and sample procedures.

As we have done in previous censuses, we will evaluate the quality of the data and make this information available to data users. In the meanwhile, both 100-percent and sample data serve very important purposes and, therefore, should be used within the limitations of the sampling and nonsampling errors.

April 1994



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Bureau of the Census**  
Washington, DC 20233-0001

**CENSUS OF POPULATION AND HOUSING, 1990:  
SUBJECT SUMMARY TAPE FILE 4, CHARACTERISTICS OF ADULTS WITH  
WORK DISABILITIES, MOBILITY LIMITATIONS, OR SELF-CARE LIMITATIONS**

**USER NOTE 3**

**Hispanic Origin Code List**—The three-digit numerical codes used during processing to identify FOSDIC circles for the categories of Hispanic origin in questionnaire item 7 differ slightly from those codes shown in the code lists appendix of the technical documentation for Summary Tape Files 3 and 4 and various Subject Summary Tape Files. The data presented for Hispanic origin were unaffected by this difference. The codes

used during processing of the Hispanic origin categories are shown.

000, 006-199 NOT SPANISH/HISPANIC  
001, 210-220 MEXICAN  
002, 261-270 PUERTO RICAN  
003, 271-274 CUBAN  
004, 290-999 OTHER SPANISH/HISPANIC

April 1994



**CENSUS OF POPULATION AND HOUSING, 1990:  
SUBJECT SUMMARY TAPE FILE 4, CHARACTERISTICS OF ADULTS WITH  
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**USER NOTE 4**

**Poverty Status in 1989**—A minor error has been detected in the determination of poverty status for persons and families in the 1990 census. For families with a householder or spouse under the age of 18, an incorrect poverty threshold was used to determine

poverty status. This resulted in the misclassification of 720 families in the United States and 6 families in both Puerto Rico and the U.S. Virgin Islands as either poor or not poor. Due to the small number of families affected, no correction has been applied. Weighted estimates of affected cases are listed below by State.

Families misclassified as:	Poor	Not Poor	Net difference in number poor
United States, excluding Puerto Rico and the Virgin Islands	388	332	-56
Alabama	11	2	-9
Alaska	7	0	-7
Arizona	15	0	-15
Arkansas	0	0	0
California	62	75	13
Colorado	9	0	-9
Connecticut	0	7	7
Delaware	0	0	0
District of Columbia	0	0	0
Florida	22	21	-1
Georgia	25	0	-25
Hawaii	0	0	0
Idaho	12	0	-12
Illinois	3	0	-3
Indiana	4	0	-4
Iowa	6	0	-6
Kansas	0	9	9
Kentucky	25	22	-3
Louisiana	17	11	-6
Maine	0	0	0
Maryland	0	3	3
Massachusetts	0	25	25
Michigan	7	2	-5
Minnesota	0	0	0
Mississippi	4	0	-4
Missouri	5	0	-5
Montana	3	0	-3
Nebraska	0	0	0

Families misclassified as:	Poor	Not Poor	Net difference in number poor
Nevada	0	0	0
New Hampshire	0	0	0
New Jersey	0	15	15
New Mexico	0	0	0
New York	4	49	45
North Carolina	0	22	22
North Dakota	0	0	0
Ohio	0	13	13
Oklahoma	6	15	9
Oregon	0	0	0
Pennsylvania	30	0	-30
Rhode Island	0	0	0
South Carolina	10	0	-10
South Dakota	0	0	0
Tennessee	2	3	1
Texas	65	18	-47
Utah	0	18	18
Vermont	0	0	0
Virginia	8	2	-6
Washington	7	0	-7
West Virginia	5	0	-5
Wisconsin	6	0	-6
Wyoming	8	0	-8
Puerto Rico	0	5	5
Virgin Islands	0	1	1

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**CENSUS OF POPULATION AND HOUSING, 1990:  
SUBJECT SUMMARY TAPE FILE 4, CHARACTERISTICS OF ADULTS WITH  
WORK DISABILITIES, MOBILITY LIMITATIONS, OR SELF-CARE LIMITATIONS**

**USER NOTE 5**

The estimated population totals for persons in group quarters, specifically by group quarters type, that are based on census sample tabulations may differ from comparable figures shown in 100-percent tabulations. Such differences result, in part, from sampling variability which occurs because information was obtained from a sample of the population rather than from all persons. Differences also occur because of nonsampling errors which affect the 100-percent and sample data. Examples of nonsampling errors include respondent and enumerator errors, processing errors, and nonresponse.

The 100-percent data are the official counts and should be used as the source for data on group quarters type when the primary focus is on counts of the

population in group quarters, especially for small areas such as census tracts/BNAs or blocks. When the group quarters population is shown by characteristics covered only on a sample basis (for example, education, labor force status, income, etc.), the sample figures should be used within the context of the sampling variability associated with them.

For more information on the limitations of 100-percent and sample data for persons in group quarters and the classification of group quarters type, see appendix B. Reasons for the differences between 100-percent and sample totals will be an important focus of post-census research and evaluation.

June 1994

# DATA DICTIONARY

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## IDENTIFICATION SECTION

Field name	Data dictionary reference name	Field size	Starting position	Data type
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### Record Codes

File Identification <sup>1</sup> .....	FILEID	8	1	A/N
State/US Abbreviation .....	STUSAB	2	9	A

AK Alaska	GU Guam	MP Northern Mariana Islands	PW Palau
AL Alabama	HI Hawaii	MS Mississippi	RI Rhode Island
AR Arkansas	IA Iowa	MT Montana	SC South Carolina
AS American Samoa	ID Idaho	NC North Carolina	SD South Dakota
AZ Arizona	IL Illinois	ND North Dakota	TN Tennessee
CA California	IN Indiana	NE Nebraska	TX Texas
CO Colorado	KS Kansas	NH New Hampshire	US United States
CT Connecticut	KY Kentucky	NJ New Jersey	UT Utah
DC District of Columbia	LA Louisiana	NM New Mexico	VA Virginia
DE Delaware	MA Massachusetts	NV Nevada	VI Virgin Islands of the United States
FL Florida	MD Maryland	NY New York	VT Vermont
FM Federated States of Micronesia	ME Maine	OH Ohio	WA Washington
GA Georgia	MH Marshall Islands	OK Oklahoma	WI Wisconsin
	MI Michigan	OR Oregon	WV West Virginia
	MN Minnesota	PA Pennsylvania	WY Wyoming
	MO Missouri	PR Puerto Rico	

Summary Level <sup>2</sup> .....	SUMLEV	3	11	N
Geographic Component <sup>3</sup> .....	GEOCOMP	2	14	N

00 Not a geographic component
01 Urban
02 Urban in urbanized area
03 Urban in urbanized area in urbanized area central place
04 Urban in urbanized area not in urbanized area central place
05 Urban not in urbanized area
06 Urban not in urbanized area place [10,000 or more persons]
07 Urban not in urbanized area place [2,500 to 9,999 persons]
08 Rural
09 Rural place [1,000 to 2,499 population, not in an extended city]
10 Rural place [0 to 999 population, not in an extended city]
11 Rural not in place [or rural part of extended city]
12 Rural farm
13 Urban portion of extended city
14 Rural portion of extended city
20 in metropolitan statistical area/consolidated metropolitan statistical area
21 in metropolitan statistical area/consolidated metropolitan statistical area urban
22 in metropolitan statistical area/consolidated metropolitan statistical area rural

NOTE: See footnotes at the end of this section.

# IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
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23	In metropolitan statistical area/consolidated metropolitan statistical area in metropolitan statistical area/primary metropolitan statistical area central city
24	In metropolitan statistical area/consolidated metropolitan statistical area not in metropolitan statistical area/primary metropolitan statistical area central city
25	In metropolitan statistical area/consolidated metropolitan statistical area not in metropolitan statistical area/primary metropolitan statistical area central city urban
26	In metropolitan statistical area/consolidated metropolitan statistical area not in metropolitan statistical area/primary metropolitan statistical area central city urban in urbanized area
27	In metropolitan statistical area/consolidated metropolitan statistical area not in metropolitan statistical area/primary metropolitan statistical area central city urban not in urbanized area
28	In metropolitan statistical area/consolidated metropolitan statistical area not in metropolitan statistical area/primary metropolitan statistical area central city rural
30	Not in metropolitan statistical area/consolidated metropolitan statistical area
31	Not in metropolitan statistical area/consolidated metropolitan statistical area urban
32	Not in metropolitan statistical area/consolidated metropolitan statistical area urban in urbanized area
33	Not in metropolitan statistical area/consolidated metropolitan statistical area urban not in urbanized area
34	Not in metropolitan statistical area/consolidated metropolitan statistical area urban not in urbanized area place [10,000 or more population]
35	Not in metropolitan statistical area/consolidated metropolitan statistical area urban not in urbanized area place [2,500 - 9,999 population]
36	Not in metropolitan statistical area/consolidated metropolitan statistical area rural
40	American Indian reservation and trust land [American Indian reservations (AIR codes 0001-4999) including any trust lands]
42	Tribal Jurisdiction Statistical Area [Oklahoma only]
43	Tribal Designated Statistical Area
44	Alaska Native village statistical area [Alaska only]

Characteristic Iteration <sup>4</sup> ..... CHARACTER 3 16 N

(Blanks in this field indicate an A record)

000	Civilian noninstitutionalized persons 16 years and over		No mobility or self-care limitation:
	With a work disability:	607	Prevented from working
	With a mobility and self-care limitation:	608	Not prevented from working
601	Prevented from working		No work disability
602	Not prevented from working		With a mobility or self-care limitation:
	With a mobility limitation only:	609	With a mobility and self-care limitation
603	Prevented from working	610	With a mobility limitation only
604	Not prevented from working	611	With a self-care limitation only
	With a self-care limitation only:	612	No mobility or self-care limitation
605	Prevented from working		
606	Not prevented from working		

Logical Record Number <sup>5</sup> ..... LOGRECNU 6 19 N

Logical Record Part Number <sup>6</sup> ..... LOGRECPN 4 25 N

Total Number of Parts in Record <sup>7</sup> ..... PARTREC 4 29 N

## Geographic Area Codes

Alaska Native Regional Corporation <sup>8</sup> ..... ANRC 2 33 A/N

07	Ahtna	28	Bering Straits	49	Chugach	70	Koniag
14	Aleut	35	Bristol Bay	56	Cook Inlet	77	NANA
21	Arctic Slope	42	Calista	63	Doyon	84	Sealaska

American Indian/Alaska Native Area (Census) <sup>9</sup> ..... AIANACE 4 35 A/N

NOTE: See footnotes at the end of this section.

# IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
American Indian/Alaska Native Area (FIPS) <sup>10</sup>	AIANAFP	5	39	A/N
American Indian/Alaska Native Area Class Code	AIANACC	2	44	A/N

- D1 Federally recognized American Indian reservation that does not serve as a minor civil division (MCD) equivalent  
 D2 Federally recognized American Indian reservation that also serves as an MCD equivalent  
 D3 American Indian tribal government that holds property in trust—"trust land"—for a tribe or individual member(s) of the tribe, and the trust land(s) is not associated with a specific American Indian reservation or the associated American Indian reservation is not located in this State  
 D4 State-recognized American Indian reservation that does not serve as an MCD equivalent  
 D5 State-recognized American Indian reservation that also serves as an MCD equivalent  
 D6 Tribal designated statistical area (TDSA); tribal jurisdiction statistical area (TJSA) (TJSAs occur only in Oklahoma)  
 E1 Alaska Native village statistical area (ANVSA) that does not coincide with or approximate an incorporated place or a census designated place (CDP)  
 E2 ANVSA that coincides with or approximates a CDP  
 E6 ANVSA that coincides with or approximates an incorporated place

American Indian Reservation Trust Land Indicator Code	ARTLI	1	46	A/N
---	-------	---	----	-----

- 1 American Indian reservation; including Tribal Jurisdiction Statistical Area (TJSA) and Tribal Designated Statistical Area (TDSA)  
 2 Off-reservation trust land  
 9 Not an American Indian area

Block <sup>a</sup>	BLCK	4	47	A/N
Block Group <sup>a</sup>	BLCKGR	1	51	A/N
Census Tract/Block Numbering Area <sup>a</sup>	TRACTBNA	6	52	A/N
Congressional District (101st Congress) <sup>a</sup>	CONGDIS	2	58	A/N

- 01-45 The actual congressional district number  
 00 Applies to States whose representative is elected "at large"; i.e., the State has only one representative in the United States House of Representatives  
 98 Applies to areas that have a nonvoting delegate in the United States House of Representatives  
 99 Applies to areas that have no representation in the United States House of Representatives

Consolidated City (Census) <sup>a</sup>	CONCITCE	1	60	A/N
---	----------	---	----	-----

- |                             |                         |                                 |
|-----------------------------|-------------------------|---------------------------------|
| B Butte-Silver Bow, Montana | I Indianapolis, Indiana | M Milford, Connecticut          |
| C Columbus, Georgia         | J Jacksonville, Florida | N Nashville-Davidson, Tennessee |

Consolidated City (FIPS) <sup>a,10</sup>	CONCITFP	6	61	A/N
Consolidated City Class Code <sup>10</sup>	CONCITCC	2	66	A/N

- C3 Consolidated city

Consolidated City Population Size Code	CONCITSC	2	68	A/N
--	----------	---	----	-----

- |                    |                |                  |                        |
|--------------------|----------------|------------------|------------------------|
| 00 Not in universe | 06 250-299     | 12 2,500-4,999   | 18 100,000-249,999     |
| 01 0               | 07 300-499     | 13 5,000-9,999   | 19 250,000-499,999     |
| 02 1-24            | 08 500-999     | 14 10,000-19,999 | 20 500,000-999,999     |
| 03 25-99           | 09 1,000-1,499 | 15 20,000-24,999 | 21 1,000,000-2,499,999 |
| 04 100-199         | 10 1,500-1,999 | 16 25,000-49,999 | 22 2,500,000-4,999,999 |
| 05 200-249         | 11 2,000-2,499 | 17 50,000-99,999 | 23 5,000,000 or more   |

NOTE: See footnotes at the end of this section.

DATA DICTIONARY



# IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
Consolidated Metropolitan Statistical Area *	CMSA	2	70	A/N
County *	CNTY	3	72	A/N
County Population Size Code	CNTYSC	2	75	A/N

00 Not in universe	06 250-299	12 2,500-4,999	18 100,000-249,999
01 0	07 300-499	13 5,000-9,999	19 250,000-499,999
02 1-24	08 500-999	14 10,000-19,999	20 500,000-999,999
03 25-99	09 1,000-1,499	15 20,000-24,999	21 1,000,000-2,499,999
04 100-199	10 1,500-1,999	16 25,000-49,999	22 2,500,000-4,999,999
05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more

County Subdivision (Census) *	COUSUBCE	3	77	A/N
County Subdivision (FIPS) <sup>10</sup>	COUSUBFP	5	80	A/N
County Subdivision Class Code	COUSUBCC	2	85	A/N

C2 Incorporated place that also serves as a minor civil division (MCD) equivalent because, although the place is coextensive with an MCD, the Census Bureau, in agreement with State officials, does not recognize that MCD for presenting census data because the MCD cannot provide governmental services (Ohio only)
C5 Incorporated place that also serves as an MCD equivalent because it is not part of an MCD or a county subdivision classified as Z5
C7 Incorporated place that also serves as a county equivalent and an MCD equivalent; generally referred to as an "independent city"
D2 Federally recognized American Indian reservation that also serves as an MCD equivalent
D5 State-recognized American Indian reservation that also serves as an MCD equivalent
T1 Governmentally active minor civil division (MCD) that is not coextensive with an incorporated place
T5 Governmentally active MCD that is coextensive with an incorporated place
Z1 MCD that is governmentally inactive or cannot provide general-purpose governmental services
Z3 Unorganized territory identified by the Census Bureau as an MCD equivalent for presenting census data
Z5 Census county division (CCD); census subarea (CSA) (Alaska only); census subdistrict (Virgin Islands only)
Z7 Incorporated place that the Census Bureau treats as a minor civil division (MCD) equivalent because it is not in any MCD or is coextensive with a legally established but nonfunctioning MCD that the Census Bureau does not recognize for data presentation, AND is located in a State or county whose MCD's cannot provide governmental services (Iowa and Nebraska only)

County Subdivision Population Size Code	COUSUBSC	2	87	A/N
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00 Not in universe	06 250-299	12 2,500-4,999	18 100,000-249,999
01 0	07 300-499	13 5,000-9,999	19 250,000-499,999
02 1-24	08 500-999	14 10,000-19,999	20 500,000-999,999
03 25-99	09 1,000-1,499	15 20,000-24,999	21 1,000,000-2,499,999
04 100-199	10 1,500-1,999	16 25,000-49,999	22 2,500,000-4,999,999
05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more

Division *	DIVIS	1	89	A/N
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0 Not in a division	4 West North Central	7 West South Central
1 New England	5 South Atlantic	8 Mountain
2 Middle Atlantic	6 East South Central	9 Pacific
3 East North Central		

Extended City Indicator *	EXTCITN	1	90	A/N
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1 Extended city	9 Not an extended city
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NOTE: See footnotes at the end of this section.

# IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
Internal Use Code <sup>11</sup> .....	INTUC	15	91	A/N
Metropolitan Statistical Area/Consolidated Metropolitan Statistical Area <sup>12</sup> .....	MSACMSA	4	106	A/N
MSA/CMSA Population Size Code .....	MSACMSAS	2	110	A/N

00 Not in universe	06 250-299	12 2,500-4,999	18 100,000-249,999
01 0	07 300-499	13 5,000-9,999	19 250,000-499,999
02 1-24	08 500-999	14 10,000-19,999	20 500,000-999,999
03 25-99	09 1,000-1,499	15 20,000-24,999	21 1,000,000-2,499,999
04 100-199	10 1,500-1,999	16 25,000-49,999	22 2,500,000-4,999,999
05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more

Place (Census) <sup>13</sup> .....	PLACECE	4	112	A/N
Place (FIPS) <sup>14</sup> .....	PLACEFP	5	116	A/N
Place Class Code .....	PLACECC	2	121	A/N

- C1 Incorporated place that is governmentally active, is not related to an Alaska Native village statistical area (ANVSA), and does not serve as a minor civil division (MCD) equivalent
- C2 Incorporated place that also serves as a minor civil division (MCD) equivalent because, although the place is coterminous with an MCD, the Census Bureau, in agreement with State officials, does not recognize that MCD for presenting census data because the MCD cannot provide governmental services (Iowa and Ohio only)
- C5 Incorporated place that also serves as an MCD equivalent because it is not part of an MCD
- C6 Incorporated place that coincides with or approximates an ANVSA
- C7 Incorporated place that also serves as a county equivalent; generally referred to as an "independent city"
- C8 The portion ("remainder") of a consolidated city that excludes the incorporated place(s) within that jurisdiction
- C9 Incorporated place whose government is operationally inactive and is not included in any other C subclass
- M2 Military or Coast Guard installation (or part of an installation) that serves as a census designated place (CDP)
- U1 CDP with a name that is commonly recognized for the populated area
- U2 CDP with a name that is not commonly recognized for the populated area (e.g., a combination of the names of two or three commonly recognized communities, or a name that identifies the location of the CDP in relation to an adjacent incorporated place)
- U9 CDP that coincides with or approximates an ANVSA

Note: In Ohio, a multi-county place that has a different MCD relationship in each county is assigned only a single class code of C1, C2, or C5.

Place Description Code .....	PLACEDC	1	123	A/N
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- 1 Incorporated central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA), but not a central place of an urbanized area (UA)
- 2 Incorporated central place of an urbanized area (UA), but not a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA)
- 3 Incorporated central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA) and a central place of an urbanized area (UA)
- 4 Consolidated city or an incorporated place that is not a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA) and not a central place of an urbanized area (UA)
- 5 Incorporated place, which is the central place of an urbanized area (UA), but only part of which is the central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA)
- 6 Incorporated place, which is not a central place of an urbanized area (UA), but part of which is the central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA)
- A Census designated place (CDP) that is a central place of an urbanized area (UA), but not a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA)
- B Census designated place (CDP) that is a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA), but not a central place of an urbanized area (UA)

NOTE: See footnotes at the end of this section.

DATA DICTIONARY

# IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
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- C Census designated place (CDP) that is a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA) and a central place of an urbanized area (UA)
- D Census designated place (CDP) that is in a 1990 or special census urbanized area (UA) and is not a central city or a central place; these CDP's must have a 1990 population of at least 300 in Hawaii and the Virgin Islands of the United States, 1,000 in Puerto Rico, and 2,500 elsewhere
- E Census designated place (CDP) not classified elsewhere; these CDP's must meet the following minimum population requirements:
- 300 in Hawaii, the Virgin Islands of the United States, and the Pacific Outlying Areas
  - 25 in Alaska
  - 1,000 in all other States and Puerto Rico
- F Zona urbana that is a central place of an urbanized area (UA) in Puerto Rico, but not a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA)
- G Zona urbana that is a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA) in Puerto Rico, but not a central place of an urbanized area (UA)
- H Zona urbana that is a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA) and a central place of an urbanized area (UA)
- I Zona urbana in Puerto Rico that is not a central city or a central place
- J Census designated place that is the capital of an outlying area
- L Census designated place (CDP) entirely within an American Indian reservation and entirely outside of a 1990 or special census urbanized area (UA); these CDP's must have a 1990 population of at least 25 in Alaska and 250 elsewhere

Place Population Size Code ..... PLACESC 2 124 A/N

00 Not in universe	06 250-299	12 2,500-4,999	18 100,000-249,999
01 0	07 300-499	13 5,000-9,999	19 250,000-499,999
02 1-24	08 500-999	14 10,000-19,999	20 500,000-999,999
03 25-99	09 1,000-1,499	15 20,000-24,999	21 1,000,000-2,499,999
04 100-199	10 1,500-1,999	16 25,000-49,999	22 2,500,000-4,999,999
05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more

Primary Metropolitan Statistical Area <sup>a</sup> ..... PMSA 4 126 A/N

Region <sup>a</sup> ..... REG 1 130 A/N

1 Northeast	2 Midwest	3 South	4 West
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State (Census) <sup>a</sup> ..... STATECE 2 131 A/N

01 Northern Mariana Islands	22 New Jersey	52 Maryland	73 Oklahoma
02 Palau	23 Pennsylvania	53 District of Columbia	74 Texas
03 American Samoa	31 Ohio	54 Virginia	81 Montana
04 Guam	32 Indiana	55 West Virginia	82 Idaho
06 Puerto Rico	33 Illinois	56 North Carolina	83 Wyoming
07 Virgin Islands of the United States	34 Michigan	57 South Carolina	84 Colorado
09 Federated States of Micronesia and Marshall Islands	35 Wisconsin	58 Georgia	85 New Mexico
11 Maine	41 Minnesota	59 Florida	86 Arizona
12 New Hampshire	42 Iowa	61 Kentucky	87 Utah
13 Vermont	43 Missouri	62 Tennessee	88 Nevada
14 Massachusetts	44 North Dakota	63 Alabama	91 Washington
15 Rhode Island	45 South Dakota	64 Mississippi	92 Oregon
16 Connecticut	46 Nebraska	71 Arkansas	93 California
21 New York	47 Kansas	72 Louisiana	94 Alaska
	51 Delaware		95 Hawaii

NOTE: See footnotes at the end of this section.

# IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type																																																												
State (FIPS) <sup>a</sup> .....	STATEFP	2	133	A/N																																																												
<table><tr><td>01 Alabama</td><td>19 Iowa</td><td>34 New Jersey</td><td>50 Vermont</td></tr><tr><td>02 Alaska</td><td>20 Kansas</td><td>35 New Mexico</td><td>51 Virginia</td></tr><tr><td>04 Arizona</td><td>21 Kentucky</td><td>36 New York</td><td>53 Washington</td></tr><tr><td>05 Arkansas</td><td>22 Louisiana</td><td>37 North Carolina</td><td>54 West Virginia</td></tr><tr><td>06 California</td><td>23 Maine</td><td>38 North Dakota</td><td>55 Wisconsin</td></tr><tr><td>08 Colorado</td><td>24 Maryland</td><td>39 Ohio</td><td>56 Wyoming</td></tr><tr><td>09 Connecticut</td><td>25 Massachusetts</td><td>40 Oklahoma</td><td>60 American Samoa</td></tr><tr><td>10 Delaware</td><td>26 Michigan</td><td>41 Oregon</td><td>64 Federated States of Micronesia</td></tr><tr><td>11 District of Columbia</td><td>27 Minnesota</td><td>42 Pennsylvania</td><td>66 Guam</td></tr><tr><td>12 Florida</td><td>28 Mississippi</td><td>44 Rhode Island</td><td>68 Marshall Islands</td></tr><tr><td>13 Georgia</td><td>29 Missouri</td><td>45 South Carolina</td><td>69 Northern Mariana Islands</td></tr><tr><td>15 Hawaii</td><td>30 Montana</td><td>46 South Dakota</td><td>70 Palau</td></tr><tr><td>16 Idaho</td><td>31 Nebraska</td><td>47 Tennessee</td><td>72 Puerto Rico</td></tr><tr><td>17 Illinois</td><td>32 Nevada</td><td>48 Texas</td><td>78 Virgin Islands of the United States</td></tr><tr><td>18 Indiana</td><td>33 New Hampshire</td><td>49 Utah</td><td></td></tr></table>					01 Alabama	19 Iowa	34 New Jersey	50 Vermont	02 Alaska	20 Kansas	35 New Mexico	51 Virginia	04 Arizona	21 Kentucky	36 New York	53 Washington	05 Arkansas	22 Louisiana	37 North Carolina	54 West Virginia	06 California	23 Maine	38 North Dakota	55 Wisconsin	08 Colorado	24 Maryland	39 Ohio	56 Wyoming	09 Connecticut	25 Massachusetts	40 Oklahoma	60 American Samoa	10 Delaware	26 Michigan	41 Oregon	64 Federated States of Micronesia	11 District of Columbia	27 Minnesota	42 Pennsylvania	66 Guam	12 Florida	28 Mississippi	44 Rhode Island	68 Marshall Islands	13 Georgia	29 Missouri	45 South Carolina	69 Northern Mariana Islands	15 Hawaii	30 Montana	46 South Dakota	70 Palau	16 Idaho	31 Nebraska	47 Tennessee	72 Puerto Rico	17 Illinois	32 Nevada	48 Texas	78 Virgin Islands of the United States	18 Indiana	33 New Hampshire	49 Utah	
01 Alabama	19 Iowa	34 New Jersey	50 Vermont																																																													
02 Alaska	20 Kansas	35 New Mexico	51 Virginia																																																													
04 Arizona	21 Kentucky	36 New York	53 Washington																																																													
05 Arkansas	22 Louisiana	37 North Carolina	54 West Virginia																																																													
06 California	23 Maine	38 North Dakota	55 Wisconsin																																																													
08 Colorado	24 Maryland	39 Ohio	56 Wyoming																																																													
09 Connecticut	25 Massachusetts	40 Oklahoma	60 American Samoa																																																													
10 Delaware	26 Michigan	41 Oregon	64 Federated States of Micronesia																																																													
11 District of Columbia	27 Minnesota	42 Pennsylvania	66 Guam																																																													
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17 Illinois	32 Nevada	48 Texas	78 Virgin Islands of the United States																																																													
18 Indiana	33 New Hampshire	49 Utah																																																														
Urban/Rural <sup>a</sup> .....	URBANRUR	1	135	A/N																																																												
<table><tr><td>1 Urban</td><td>2 Rural</td></tr></table>					1 Urban	2 Rural																																																										
1 Urban	2 Rural																																																															
Urbanized Area <sup>a</sup> .....	URBAREA	4	136	A/N																																																												
Urbanized Area Population Size Code.....	UASC	2	140	A/N																																																												
<table><tr><td>00 Not in universe</td><td>06 250-299</td><td>12 2,500-4,999</td><td>18 100,000-249,999</td></tr><tr><td>01 0</td><td>07 300-499</td><td>13 5,000-9,999</td><td>19 250,000-499,999</td></tr><tr><td>02 1-24</td><td>08 500-999</td><td>14 10,000-19,999</td><td>20 500,000-999,999</td></tr><tr><td>03 25-99</td><td>09 1,000-1,499</td><td>15 20,000-24,999</td><td>21 1,000,000-2,499,999</td></tr><tr><td>04 100-199</td><td>10 1,500-1,999</td><td>16 25,000-49,999</td><td>22 2,500,000-4,999,999</td></tr><tr><td>05 200-249</td><td>11 2,000-2,499</td><td>17 50,000-99,999</td><td>23 5,000,000 or more</td></tr></table>					00 Not in universe	06 250-299	12 2,500-4,999	18 100,000-249,999	01 0	07 300-499	13 5,000-9,999	19 250,000-499,999	02 1-24	08 500-999	14 10,000-19,999	20 500,000-999,999	03 25-99	09 1,000-1,499	15 20,000-24,999	21 1,000,000-2,499,999	04 100-199	10 1,500-1,999	16 25,000-49,999	22 2,500,000-4,999,999	05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more																																				
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05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more																																																													
Special Area Code (1).....	SAC1	5	142	A/N																																																												
Special Area Code (2).....	SAC2	5	147	A/N																																																												
Special Area Code (3).....	SAC3	4	152	A/N																																																												
Special Area Code (4).....	SAC4	4	156	A/N																																																												
Special Area Code (5).....	SAC5	3	160	A/N																																																												
Special Area Code (6).....	SAC6	3	163	A/N																																																												
Special Area Code (7).....	SAC7	2	166	A/N																																																												
Special Area Code (8).....	SAC8	2	168	A/N																																																												
Special Area Code (9).....	SAC9	1	170	A/N																																																												
Special Area Code (10).....	SAC10	1	171	A/N																																																												
<b>Area Characteristics</b>																																																																
Area (land) <sup>12</sup> .....	AREALAND	10	172	A/N																																																												
Area (water) <sup>13</sup> .....	AREAWAT	10	182	A/N																																																												
Area Name/PSAD Term/Part Indicator <sup>14</sup> .....	ANPSADPI	66	192	A/N																																																												

NOTE: See footnotes at the end of this section.

DATA DICTIONARY

# IDENTIFICATION SECTION--Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
Functional Status Code.....	FUNCSTAT	1	258	A/N

- A Active governmental unit, except American Indian reservations and Alaska Native village statistical areas. — An active governmental unit has the legal capacity to have officers, to raise revenue, and to conduct governmental activities under State laws, and currently is doing so.
- B Functioning governmental unit providing no substantive governmental services. — These areas may be coextensive with and administered by officials of another governmental unit (such as towns in Connecticut that are coextensive with cities), or the number of officials and/or the functions they perform are so minimal and/or vestigial that the Census Bureau does not recognize them as governmental units for census purposes (such as townships in Iowa).
- F False entity. — In order to maintain complete coverage of every State at the county level and of every county at the county subdivision level, we create false entities at these levels for any place that is independent of a county or independent of a minor civil division (MCD). This code also is used for place records that represent the remainder of a consolidated city or the remainder of a county subdivision.
- I Inactive governmental unit. — An inactive governmental unit has the legal capacity to be active, but currently has no legal officers, raises no revenues, and conducts no activities.
- N Nonfunctioning governmental unit. — A nonfunctioning governmental unit has legally established boundaries, but has no legal capacity to conduct governmental activity.
- R An American Indian reservation, an American Indian tribe whose name is associated with trust lands, or an Alaska Native village statistical area.
- S Statistical entity, except Alaska Native village statistical areas and tribal jurisdiction statistical areas. — A statistical entity has no governmental status and is defined by or in cooperation with the Census Bureau or other Federal agency. This category includes census regions, census divisions, census county divisions (CCDs), census designated places (CDPs), metropolitan areas (MSA/CMSA/PMSAs), urbanized areas (UAs), unorganized territories (UTs), tribal designated statistical areas (TDSAs), census areas and census subareas in Alaska, and comunidades and zonas urbanas in Puerto Rico.
- T Tribal jurisdiction statistical area. — A tribal jurisdiction statistical area (TJSA) is not a legally defined governmental unit, but is recognized as a statistical area for the 1990 census. These areas exist only in the State of Oklahoma and were not recognized separately in 1980.

Geographic Change User Note Indicator.....	GCUNI	1	259	A/N
--	-------	---	-----	-----

- 0 No geographic change note for the area within the summary level
- 1 See User Notes for a geographic change note

Housing Unit Count (100 percent) <sup>15</sup> .....	HU100	9	260	A/N
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Internal Point (latitude) <sup>16</sup> .....	INTPTLAT	9	269	A/N
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Internal Point (longitude) <sup>17</sup> .....	INTPTLNG	10	278	A/N
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Part Flag.....	PARTFLAG	1	288	A/N
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- 0 Not a part
- 1 Part

Political/Statistical Area Description Code.....	PSADC	2	289	A/N
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- 01 State or State equivalent no status is appended to the name of the entity in census publications and related data products.
- 04 Borough county equivalent in Alaska; "Borough" is appended to the name of the entity in census publications and related data products.
- 05 Census area county equivalent in Alaska; "Census Area" is appended to the name of the entity in census publications and related data products.
- 06 County "County" is appended to the name of the entity in census publications and related data products.
- 07 District county equivalent in American Samoa; "District" is appended to the name of the entity in census publications and related data products.
- 08 Independent city county equivalent in Maryland, Missouri, and Virginia; "city" is appended to the name of the entity in census publications and related data products.

NOTE: See footnotes at the end of this section.

# IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
09	Independent city county equivalent in Nevada; no status is appended to the name of the entity in census publications and related data products.			
10	Island county equivalent in Virgin Islands of the United States; "Island" is appended to the name of the entity in census publications and related data products.			
11	Island county equivalent in American Samoa; no status is appended to the name of the entity in census publications and related data products.			
12	Municipality county equivalent in Northern Mariana Islands; "Municipality" is appended to the name of the entity in census publications and related data products.			
13	Municipio county equivalent in Puerto Rico; "Municipio" is appended to the name of the entity in census publications and related data products.			
14	(none) county equivalent; used at county level for the District of Columbia and Yellowstone National Park (Montana). No status is appended to the name of the entity in census publications and related data products.			
15	Parish county equivalent in Louisiana; "Parish" is appended to the name of the entity in census publications and related data products.			
16	State county equivalent in Palau; "State" is appended to the name of the entity in census publications and related data products.			
19	American Indian reservation minor civil division (MCD) in Maine and New York; "Reservation" is appended to the name of the entity in census publications and related data products.			
20	Barrio minor civil division (MCD) in Puerto Rico; "barrio" is appended to the name of the entity in census publications and related data products.			
21	Borough minor civil division (MCD) in New York; MCD equivalent in New Jersey and Pennsylvania; "borough" is appended to the name of the entity in census publications and related data products.			
22	Census county division (CCD) minor civil division (MCD) equivalent in 21 States; "division" is appended to the name of the entity in census publications and related data products.			
23	Census subarea minor civil division (MCD) equivalent in Alaska; "census subarea" is appended to the name of the entity in census publications and related data products.			
24	Census subdistrict minor civil division (MCD) equivalent in the Virgin Islands of the United States; "subdistrict" is appended to the name of the entity in census publications and related data products.			
25	City minor civil division (MCD) equivalent in 20 States and the District of Columbia; "city" is appended to the name of the entity in census publications and related data products.			
26	County minor civil division (MCD) of a district in American Samoa; "county" is appended to the name of the entity in census publications and related data products.			
27	District (magisterial, road) minor civil division (MCD) in Pennsylvania, Virginia, and West Virginia; "district" is appended to the name of the entity in census publications and related data products.			
28	District (assessment, election, magisterial, supervisors', or parish governing authority) minor civil division (MCD) in Louisiana, Maryland, Mississippi, and West Virginia; no status is appended to the name of the entity in census publications and related data products.			
29	Election precinct minor civil division (MCD) in Illinois and Nebraska; "precinct" is appended to the name of the entity in census publications and related data products.			
30	Election precinct minor civil division (MCD) in Illinois and Nebraska; no status is appended to the name of the entity in census publications and related data products.			
31	Gore minor civil division (MCD) in Maine and Vermont; "gore" is appended to the name of the entity in census publications and related data products.			
32	Grant minor civil division (MCD) in New Hampshire and Vermont; "grant" is appended to the name of the entity in census publications and related data products.			
33	Independent city minor civil division (MCD) equivalent in Maryland, Missouri, and Virginia; "city" is appended to the name of the entity in census publications and related data products.			
34	Not used.			
35	Island minor civil division (MCD) in American Samoa; no status is appended to the name of the entity in census publications and related data products.			
36	Location minor civil division (MCD) in New Hampshire; "location" is appended to the name of the entity in census publications and related data products.			
37	Municipality minor civil division (MCD) in Palau; "municipality" is appended to the name of the entity in census publications and related data products.			
38	(none) minor civil division (MCD) equivalent for Arlington County, Virginia; no status is appended to the name of the entity in census publications and related data products.			
39	Plantation minor civil division (MCD) in Maine; "plantation" is appended to the name of the entity in census publications and related data products.			

NOTE: See footnotes at the end of this section.

DATA DICTIONARY

# IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
40	Plantation minor civil division (MCD) in Maine; no status is appended to the name of the entity in census publications and related data products.			
41	Barrio-pueblo minor civil division (MCD) in Puerto Rico; "barrio-pueblo" is appended to the name of the entity in census publications and related data products.			
42	Purchase minor civil division (MCD) in New Hampshire; "purchase" is appended to the name of the entity in census publications and related data products.			
43	Town minor civil division (MCD) in 8 States; MCD equivalent in New Jersey, Pennsylvania, and South Dakota; "town" is appended to the name of the entity in census publications and related data products.			
44	Township minor civil division (MCD) in 16 States; "township" is appended to the name of the entity in census publications and related data products.			
45	Township minor civil division (MCD) in Kansas, Nebraska, and North Carolina; no status is appended to the name of the entity in census publications and related data products.			
46	Unorganized territory minor civil division (MCD) in 9 States; "unorg." is appended to the name of the entity in census publications and related data products.			
47	Village minor civil division (MCD) equivalent in New Jersey, Ohio, South Dakota, and Wisconsin; "village" is appended to the name of the entity in census publications and related data products.			
48	State minor civil division (MCD) in Palau; "state" is appended to the name of the entity in census publications and related data products.			
49	Charter township minor civil division (MCD) in Michigan; "charter township" is appended to the name of the entity in Census Bureau publications and other data products.			
51	Subbarrio sub-minor civil division (sub-MCD) in Puerto Rico; "subbarrio" is appended to the name of the entity in census publications and related data products.			
55	Comunidad place (census designated place) in Puerto Rico; "comunidad" is appended to the name of the entity in census publications and related data products.			
56	Borough place in Connecticut, New Jersey, and Pennsylvania; "borough" is appended to the name of the entity in census publications and related data products.			
57	Census designated place place; "CDP" is appended to the name of the entity in census publications and related data products.			
58	City place; "city" is appended to the name of the entity in census publications and related data products.			
59	City place; used for some cities that have a unique description, no description, or a description included with their name, as follows: Anasconda-Deer Lodge County (Montana): Incorporated municipality; Butte-Silver Bow (remainder) (Montana): (none); Carson City, Nevada: (none); Columbus city (remainder) (Georgia): (none); Indianapolis city (remainder) (Indiana): (none); Jacksonville city (remainder) (Florida): (none); Lexington-Fayette (Kentucky): Urban County Government; Lynchburg-Moore County (Tennessee): (none); Milford city (remainder) (Connecticut): (none); Nashville-Davidson (remainder) (Tennessee): "Metropolitan Government of Nashville and Davidson County"; No status is appended to the name of the entity in census publications and related data products.			
60	Town place; place in 30 States and the Virgin Islands of the United States; "town" is appended to the name of the entity in census publications and related data products.			
61	Village place; place in 19 States; "village" is appended to the name of the entity in census publications and related data products.			
62	Zona urbana place (census designated place) in Puerto Rico; "zona urbana" is appended to the name of the entity in census publications and related data products.			
65	Consolidated city in Connecticut, Florida, Georgia, and Indiana "city" is appended to the name of the entity in census publications and related data products.			
66	Consolidated city used for some consolidated cities that have unique descriptions or no descriptions, as follows: Butte-Silver Bow (Montana): (none); Nashville-Davidson (Tennessee): "Metropolitan Government of Nashville and Davidson County"; No status is appended to the name of the entity in census publications and related data products.			
68	Census region no status is appended to the name of the entity in census publications and related data products.			
69	Census division no status is appended to the name of the entity in census publications and related data products.			
71	Consolidated metropolitan statistical area (CMSA) "CMSA" is appended to the name of the entity in census publications and related data products.			

NOTE: See footnotes at the end of this section.

## IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
<p>72 Metropolitan statistical area (MSA) "MSA" is appended to the name of the entity in census publications and related data products.</p> <p>73 Primary metropolitan statistical area (PMSA) "PMSA" is appended to the name of the entity in census publications and related data products.</p> <p>75 Urbanized area (UA) no status is appended to the name of the entity in census publications and related data products.</p> <p>77 Alaska Native Regional Corporation no status is appended to the name of the entity in census publications and related data products.</p> <p>79 Alaska Native village statistical area no status is appended to the name of the entity in census publications and related data products.</p> <p>80 Tribal designated statistical area American Indian reservation equivalent for non-land-based tribes outside of Oklahoma; "TDSA" is appended to the name of the entity in census publications and related data products.</p> <p>81 Colony American Indian reservation; "Colony" is appended to the name of the entity in census publications and related data products.</p> <p>82 Community American Indian reservation; "Community" is appended to the name of the entity in census publications and related data products.</p> <p>83 Joint area American Indian reservation equivalent; "joint area" is appended to the name of the entity in census publications and related data products.</p> <p>84 Pueblo American Indian reservation; "Pueblo" is appended to the name of the entity in census publications and related data products.</p> <p>85 Rancheria American Indian reservation; "Rancheria" is appended to the name of the entity in census publications and related data products.</p> <p>86 Reservation American Indian reservation; "Reservation" is appended to the name of the entity in census publications and related data products.</p> <p>87 Reserve American Indian reservation; "Reserve" is appended to the name of the entity in census publications and related data products.</p> <p>88 Tribal jurisdiction statistical area American Indian reservation equivalent representing historic tribal areas in Oklahoma; "TJSA" is appended to the name of the entity in census publications and related data products.</p> <p>89 Trust lands American Indian reservation equivalent; no status is appended to the name of the entity in census publications and related data products.</p> <p>90 (none) American Indian reservation; no status is appended to the name of the entity in census publications and related data products.</p>				
Population Count (100 percent) <sup>18</sup> .....	POP100	9	291	A/N
Special Flag .....	SPFLAG	1	300	A/N

### Footnotes

1. A unique identifier for each file series. Dress rehearsal files have a "D" in the character following the last character in the file identification code for the equivalent 1990 decennial census file; for example, PL94171D is the identifier for the dress rehearsal file for the P.L. 94-171 data. File identification code for the P.L. 94-171 file is PL94171. File identification codes for summary tape files are STFnn where nn = file number; for example, STF1A is the identification for Summary Tape File 1A. File identification codes for subject summary tape files are SSTFnn where nn = the number of the subject report. File identification codes for special project files are identified by SPmmm where mmm = a three digit special project number. See How to Use This File for further information.
2. Identifies the geographic level for which the data matrices on the summary tape file have been summarized. The summary level sequence chart describes the hierarchical arrangement of the specified geographic areas with other geographic areas, if any. The summary level must be used in combination with the geographic area codes to identify a specific geographic area (for example, summary level 050 and a specific county code must be used together to locate the data for a particular county). See How to Use This File for further information.
3. Indicates an iteration (repetition), for the specified summary level, of the data matrices on the summary tape file for the geographic components listed in the Geographic Component field. See How To Use This File for further information.



## IDENTIFICATION SECTION—Cont.

4. Indicates an iteration (repetition), for the specified summary level, of the data matrices on the summary tape file for a population or housing characteristic. Only matrices containing a "B" in the prefix have characteristic iterations. See *How to Use This File* for further information.
5. The logical record is the complete record [identification and set of tables (matrices)] for a geographic entity defined by the summary level, but exclusive of the characteristic iteration. A logical record may have one or more parts (or segments). Each logical record has an assigned sequential integer number within the file. See *How to Use This File* for further information.
6. Within the logical record, each part is identified uniquely in terms of its sequence. See *How to Use This File* for further information.
7. This field identifies how many parts (or segments) comprise the entire logical record. See *How to Use This File* for further information.
8. See Appendix A, *Area Classifications*, for definition of this field if it is applicable to this file.
9. See the publication, *Geographic Identification Code Scheme*, for codes in this field and related terminology if it is applicable to this file. See Appendix A, *Area Classifications*, for definition of this field if it is applicable to this file.
10. See the publication, *Geographic Identification Code Scheme*, for FIPS 55 codes in this field and related terminology if it is applicable to this file. See Appendix A, *Area Classifications*, for definition of this field if it is applicable to this file.
11. Codes in unspecified arrangement for Census Bureau use.
12. Land area measurement in thousandths (.001) of a square kilometer. The accuracy of the area measurement is limited by the inaccuracy inherent in 1) the mapping of the various boundary features in the TIGER File and 2) rounding affecting the last digit in all operations that compute and/or sum the area measurements. Land area includes intermittent water and glaciers, which appear on census maps and in the TIGER File as hydrographic features. An area of .0005 square kilometer is rounded to .001; an area smaller than .0005 is rounded to .000. The decimal point is implied on the file. Square miles can be derived by dividing square kilometers by 2.59. See Appendix A, *Area Classifications*, for definition of this field if it is applicable to this file.
13. Water area measurement in thousandths (.001) of a square kilometer. Water area is excluded from census blocks by definition, so the water area for a block always will be zero. The accuracy of the area measurement is limited by the inaccuracy inherent in 1) the mapping of the various boundary features in the TIGER File and 2) rounding affecting the last digit in all operations that compute and/or sum the area measurements. Water area excludes intermittent water and glaciers, which are treated as land even though they appear on census maps and in the TIGER File as hydrographic features. An area of .0005 square kilometer is rounded to .001; an area smaller than .0005 is rounded to .000. The decimal point is implied on the file. Square miles can be derived by dividing square kilometers by 2.59. See Appendix A, *Area Classifications*, for definition of this field if it is applicable to this file.
14. Name of the lowest-level entity represented by the summary level. In addition to the name of the entity, the name field contains the political/statistical area description (PSAD) when appropriate, and sometimes contains the State abbreviation.

For legal entities, the name is the one reported to the Bureau of the Census in the Boundary and Annexation Survey and by other appropriate sources; for statistical entities, the name is determined by the Office of Management and Budget for metropolitan areas and, for other areas, the name is determined by the Bureau of the Census, usually in cooperation with local officials.

When the summary level represents only part of the area specified in the name, the name usually will have "(pt.)" appended to the name/code terminology to designate that this entry for the entity represents only a part of the total entity.

## IDENTIFICATION SECTION—Con.

15. The total number of housing units enumerated in the specified summary level as determined in the 100-percent processing.
16. Latitude in degrees, to six decimal places, of a point within the geographic area represented by the summary level. The decimal point is implied on the file. The character immediately preceding the first digit of the latitude of an internal point identifies the direction (hemisphere): a plus sign (+) indicates the Northern Hemisphere; a minus sign (-) indicates the Southern Hemisphere. See Appendix A, Area Classifications, for definition of this field if it is applicable to this file.
17. Longitude in degrees, to six decimal places, of a point within the geographic area represented by the summary level. The decimal point is implied on the file. The character immediately preceding the first digit of the longitude of an internal point identifies the direction (hemisphere): a plus sign (+) indicates the Eastern Hemisphere; a minus sign (-) indicates the Western Hemisphere. A point on the 180th meridian is assigned to the Western Hemisphere (-180000000). See Appendix A, Area Classifications, for definition of this field if it is applicable to this file.
18. The total number of persons enumerated in the specified summary level as determined in the 100-percent processing.

# TABLE (MATRIX) SECTION

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PA1.	PERSONS(1) [1] <i>Universe: Persons</i> Total.....	301.....	301.....	1
PA2.	UNWEIGHTED SAMPLE COUNT OF PERSONS(1) [1] <i>Universe: Persons</i> Total.....	310.....	310.....	1
PA3.	100-PERCENT COUNT OF PERSONS(1) [1] <i>Universe: Persons</i> Total.....	319.....	319.....	1
HA1.	HOUSING UNITS(1) [1] <i>Universe: Housing units</i> Total.....	328.....	328.....	1
HA2.	UNWEIGHTED SAMPLE COUNT OF HOUSING UNITS(1) [1] <i>Universe: Housing units</i> Total.....	337.....	337.....	1
HA3.	100-PERCENT COUNT OF HOUSING UNITS(1) [1] <i>Universe: Housing units</i> Total.....	346.....	346.....	1
	Filler.....	355.....	355	
	End of Record			
PB1.	SEX(2) BY RACE(5) BY AGE(17) [170] <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male:			
	White:			
	18 to 19 years.....	301.....	301.....	1,1,1
	20 to 24 years.....	310.....	310.....	1,1,2
	25 to 29 years.....	319.....	319.....	1,1,3
	30 to 34 years.....	328.....	328.....	1,1,4
	35 to 39 years.....	337.....	337.....	1,1,5
	40 to 44 years.....	346.....	346.....	1,1,6
	45 to 49 years.....	355.....	355.....	1,1,7
	50 to 54 years.....	364.....	364.....	1,1,8
	55 to 59 years.....	373.....	373.....	1,1,9
	60 to 64 years.....	382.....	382.....	1,1,10
	65 to 69 years.....	391.....	391.....	1,1,11
	70 to 74 years.....	400.....	400.....	1,1,12
	75 to 79 years.....	409.....	409.....	1,1,13
	80 to 84 years.....	418.....	418.....	1,1,14
	85 to 89 years.....	427.....	427.....	1,1,15
	90 to 94 years.....	436.....	436.....	1,1,16
	95 years and over.....	445.....	445.....	1,1,17
	Black:			
	(Repeat AGE).....	454.....	454.....	1,2,1
	American Indian, Eskimo, or Aleut:			
	(Repeat AGE).....	607.....	607.....	1,3,1
	Asian or Pacific Islander:			
	(Repeat AGE).....	760.....	760.....	1,4,1
	Other race:			
	(Repeat AGE).....	913.....	913.....	1,5,1
	Female:			
	(Repeat RACE By AGE).....	1066.....	1066.....	2,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB2.	SEX(2) BY RACE AND HISPANIC ORIGIN(3) BY AGE(17) [102] <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male:			
	Hispanic origin:			
	16 to 19 years.....	1831.....	1831.....	1,1,1
	20 to 24 years.....	1840.....	1840.....	1,1,2
	25 to 29 years.....	1849.....	1849.....	1,1,3
	30 to 34 years.....	1858.....	1858.....	1,1,4
	35 to 39 years.....	1867.....	1867.....	1,1,5
	40 to 44 years.....	1876.....	1876.....	1,1,6
	45 to 49 years.....	1885.....	1885.....	1,1,7
	50 to 54 years.....	1894.....	1894.....	1,1,8
	55 to 59 years.....	1903.....	1903.....	1,1,9
	60 to 64 years.....	1912.....	1912.....	1,1,10
	65 to 69 years.....	1921.....	1921.....	1,1,11
	70 to 74 years.....	1930.....	1930.....	1,1,12
	75 to 79 years.....	1939.....	1939.....	1,1,13
	80 to 84 years.....	1948.....	1948.....	1,1,14
	85 to 89 years.....	1957.....	1957.....	1,1,15
	90 to 94 years.....	1966.....	1966.....	1,1,16
	95 years and over.....	1975.....	1975.....	1,1,17
	White, not of Hispanic origin: (Repeat AGE).....	1984.....	1984.....	1,2,1
	Other races, not of Hispanic origin: (Repeat AGE).....	2137.....	2137.....	1,3,1
	Female: (Repeat RACE AND HISPANIC ORIGIN By AGE).....	2290.....	2290.....	2,1,1
PB3.	SEX(2) BY AGE(7) BY HOUSEHOLD TYPE AND RELATIONSHIP(15) [210] <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male:			
	16 to 24 years:			
	In married-couple family households:			
	Householder or spouse:			
	With own children under 18 years.....	2749.....	2749.....	1,1,1
	No own children under 18 years.....	2758.....	2758.....	1,1,2
	Parent.....	2767.....	2767.....	1,1,3
	Child.....	2776.....	2776.....	1,1,4
	Other relatives.....	2785.....	2785.....	1,1,5
	Nonrelatives.....	2794.....	2794.....	1,1,6
	In other family households:			
	Householder:			
	With own children under 18 years.....	2803.....	2803.....	1,1,7
	No own children under 18 years.....	2812.....	2812.....	1,1,8
	Parent.....	2821.....	2821.....	1,1,9
	Child.....	2830.....	2830.....	1,1,10
	Other relatives.....	2839.....	2839.....	1,1,11
	Nonrelatives.....	2848.....	2848.....	1,1,12
	In nonfamily households:			
	Living alone.....	2857.....	2857.....	1,1,13
	Not living alone.....	2866.....	2866.....	1,1,14
	In group quarters.....	2875.....	2875.....	1,1,15
	25 to 34 years:			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP).....	2884.....	2884.....	1,2,1
	35 to 44 years:			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP).....	3019.....	3019.....	1,3,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB3.	SEX(2) BY AGE(7) BY HOUSEHOLD TYPE AND RELATIONSHIP(15) [210]—Con.			
	45 to 54 years:			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP) .....	3154.....	3154 .....	1,4,1
	55 to 64 years:			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP) .....	3289.....	3289 .....	1,5,1
	65 to 74 years:			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP) .....	3424.....	3424 .....	1,6,1
	75 years and over:			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP) .....	3559.....	3559 .....	1,7,1
	Female:			
	(Repeat AGE By HOUSEHOLD TYPE AND RELATIONSHIP) .....	3694.....	3694 .....	2,1,1
PB4.	SEX(2) BY AGE(7) BY PERSONS IN HOUSEHOLD(9) [126] <i>Universe: Civilian persons 16 years and over in households</i>			
	Male:			
	16 to 24 years:			
	1 person.....	4639.....	4639 .....	1,1,1
	2 persons.....	4648.....	4648 .....	1,1,2
	3 persons.....	4657.....	4657 .....	1,1,3
	4 persons.....	4666.....	4666 .....	1,1,4
	5 persons.....	4675.....	4675 .....	1,1,5
	6 persons.....	4684.....	4684 .....	1,1,6
	7 persons.....	4693.....	4693 .....	1,1,7
	8 persons.....	4702.....	4702 .....	1,1,8
	9 or more persons.....	4711.....	4711 .....	1,1,9
	25 to 34 years:			
	(Repeat PERSONS IN HOUSEHOLD) .....	4720.....	4720 .....	1,2,1
	35 to 44 years:			
	(Repeat PERSONS IN HOUSEHOLD) .....	4801.....	4801 .....	1,3,1
	45 to 54 years:			
	(Repeat PERSONS IN HOUSEHOLD) .....	4882.....	4882 .....	1,4,1
	55 to 64 years:			
	(Repeat PERSONS IN HOUSEHOLD) .....	4963.....	4963 .....	1,5,1
	65 to 74 years:			
	(Repeat PERSONS IN HOUSEHOLD) .....	5044.....	5044 .....	1,6,1
	75 years and over:			
	(Repeat PERSONS IN HOUSEHOLD) .....	5125.....	5125 .....	1,7,1
	Female:			
	(Repeat AGE By PERSONS IN HOUSEHOLD) .....	5206.....	5206 .....	2,1,1
PB5.	SEX(2) BY AGE(6) BY EDUCATIONAL ATTAINMENT(5) [50] <i>Universe: Civilian noninstitutionalized persons 25 years and over</i>			
	Male:			
	25 to 34 years:			
	Not high school graduate.....	5773.....	5773 .....	1,1,1
	High school graduate (includes equivalency) .....	5782.....	5782 .....	1,1,2
	Some college or associate degree.....	5791.....	5791 .....	1,1,3
	Bachelor's degree.....	5800.....	5800 .....	1,1,4
	Graduate or professional degree .....	5809.....	5809 .....	1,1,5
	35 to 44 years:			
	(Repeat EDUCATIONAL ATTAINMENT) .....	5818.....	5818 .....	1,2,1
	45 to 54 years:			
	(Repeat EDUCATIONAL ATTAINMENT) .....	5863.....	5863 .....	1,3,1
	55 to 64 years:			
	(Repeat EDUCATIONAL ATTAINMENT) .....	5908.....	5908 .....	1,4,1
	65 years and over:			
	(Repeat EDUCATIONAL ATTAINMENT) .....	5953.....	5953 .....	1,5,1
	Female:			
	(Repeat AGE By EDUCATIONAL ATTAINMENT) .....	5998.....	5998 .....	2,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB6.	SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) [20] <i>Universe: Civilian noninstitutionalized persons 16 to 24 years</i> Male: Not high school graduate: Enrolled in school..... Not enrolled in school..... High school graduate (includes equivalency): (Repeat SCHOOL ENROLLMENT)..... Some college or associate degree: (Repeat SCHOOL ENROLLMENT)..... Bachelor's degree: (Repeat SCHOOL ENROLLMENT)..... Graduate or professional degree: (Repeat SCHOOL ENROLLMENT)..... Female: (Repeat EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT).....	6223..... 6232..... 6241..... 6259..... 6277..... 6295..... 6313.....	6223..... 6232..... 6241..... 6259..... 6277..... 6295..... 6313.....	1,1,1 1,1,2 1,2,1 1,3,1 1,4,1 1,5,1 2,1,1
PB7.	SEX(2) BY AGE(5) BY VETERAN STATUS(3) [30] <i>Universe: Civilian noninstitutionalized persons 25 years and over</i> Male: 25 to 34 years: In Armed Forces..... Civilian: Veteran..... Nonveteran..... 35 to 44 years: (Repeat VETERAN STATUS)..... 45 to 54 years: (Repeat VETERAN STATUS)..... 55 to 64 years: (Repeat VETERAN STATUS)..... 65 years and over: (Repeat VETERAN STATUS)..... Female: (Repeat AGE By VETERAN STATUS).....	6403..... 6412..... 6421..... 6430..... 6457..... 6484..... 6511..... 6538.....	6403..... 6412..... 6421..... 6430..... 6457..... 6484..... 6511..... 6538.....	1,1,1 1,1,2 1,1,3 1,2,1 1,3,1 1,4,1 1,5,1 2,1,1
PB8.	SEX(2) BY AGE(2) BY PERSONS IN HOUSEHOLD(9) BY HOUSEHOLD INCOME IN 1989(9) [324] <i>Universe: Civilian persons 16 years and over in households</i> Male: 16 to 64 years: 1 person: Less than \$5,000..... \$5,000 to \$9,999..... \$10,000 to \$14,999..... \$15,000 to \$24,999..... \$25,000 to \$34,999..... \$35,000 to \$49,999..... \$50,000 to \$74,999..... \$75,000 to \$99,999..... \$100,000 or more..... 2 persons: (Repeat HOUSEHOLD INCOME IN 1989)..... 3 persons: (Repeat HOUSEHOLD INCOME IN 1989)..... 4 persons: (Repeat HOUSEHOLD INCOME IN 1989)..... 5 persons: (Repeat HOUSEHOLD INCOME IN 1989).....	6673..... 6682..... 6691..... 6700..... 6709..... 6718..... 6727..... 6736..... 6745..... 6754..... 6835..... 6916..... 6997.....	6673..... 6682..... 6691..... 6700..... 6709..... 6718..... 6727..... 6736..... 6745..... 6754..... 6835..... 6916..... 6997.....	1,1,1,1 1,1,1,2 1,1,1,3 1,1,1,4 1,1,1,5 1,1,1,6 1,1,1,7 1,1,1,8 1,1,1,9 1,1,2,1 1,1,3,1 1,1,4,1 1,1,5,1

**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB8.	SEX(2) BY AGE(2) BY PERSONS IN HOUSEHOLD(9) BY HOUSEHOLD INCOME IN 1989(9) [324]—Con.			
	6 persons:			
	(Repeat HOUSEHOLD INCOME IN 1989) .....	7078.....	7078.....	1,1,6,1
	7 persons:			
	(Repeat HOUSEHOLD INCOME IN 1989) .....	7159.....	7159.....	1,1,7,1
	8 persons:			
	(Repeat HOUSEHOLD INCOME IN 1989) .....	7240.....	7240.....	1,1,8,1
	9 or more persons:			
	(Repeat HOUSEHOLD INCOME IN 1989) .....	7321.....	7321.....	1,1,9,1
	65 years and over:			
	(Repeat PERSONS IN HOUSEHOLD By HOUSEHOLD INCOME IN 1989) .....	7402.....	7402.....	1,2,1,1
	Female:			
	(Repeat AGE By PERSONS IN HOUSEHOLD By HOUSEHOLD INCOME IN 1989).....	8131.....	8131.....	2,1,1,1
	Filler .....	8158.....	8158.....	
	End of Segment			
	Female:			
	(Repeat AGE By PERSONS IN HOUSEHOLD By HOUSEHOLD INCOME IN 1989)—Con.....	8455.....	301.....	2,1,1,4
PB9.	SEX(2) BY AGE(17) BY INCOME IN 1989(11) [374]			
	Universe: Civilian noninstitutionalized persons 16 years and over			
	Male:			
	16 to 19 years:			
	Without income .....	9897.....	1732.....	1,1,1
	With income:			
	\$1 to \$4,999 or less .....	9906.....	1741.....	1,1,2
	\$5,000 to \$9,999 .....	9915.....	1750.....	1,1,3
	\$10,000 to \$14,999 .....	9924.....	1759.....	1,1,4
	\$15,000 to \$19,999 .....	9933.....	1768.....	1,1,5
	\$20,000 to \$24,999 .....	9942.....	1777.....	1,1,6
	\$25,000 to \$34,999 .....	9951.....	1786.....	1,1,7
	\$35,000 to \$49,999 .....	9960.....	1795.....	1,1,8
	\$50,000 to \$74,999 .....	9969.....	1804.....	1,1,9
	\$75,000 to \$99,999 .....	9978.....	1813.....	1,1,10
	\$100,000 and over .....	9987.....	1822.....	1,1,11
	20 to 24 years:			
	(Repeat INCOME IN 1989) .....	9996.....	1831.....	1,2,1
	25 to 29 years:			
	(Repeat INCOME IN 1989) .....	10095.....	1930.....	1,3,1
	30 to 34 years:			
	(Repeat INCOME IN 1989) .....	10194.....	2029.....	1,4,1
	35 to 39 years:			
	(Repeat INCOME IN 1989) .....	10293.....	2128.....	1,5,1
	40 to 44 years:			
	(Repeat INCOME IN 1989) .....	10392.....	2227.....	1,6,1
	45 to 49 years:			
	(Repeat INCOME IN 1989) .....	10491.....	2326.....	1,7,1
	50 to 54 years:			
	(Repeat INCOME IN 1989) .....	10590.....	2425.....	1,8,1
	55 to 59 years:			
	(Repeat INCOME IN 1989) .....	10689.....	2524.....	1,9,1
	60 to 64 years:			
	(Repeat INCOME IN 1989) .....	10788.....	2623.....	1,10,1
	65 to 69 years:			
	(Repeat INCOME IN 1989) .....	10887.....	2722.....	1,11,1

**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB9.	SEX(2) BY AGE(17) BY INCOME IN 1989(11) [374]—Con. 70 to 74 years: (Repeat INCOME IN 1989).....	10986.....	2821 .....	1,12,1
	75 to 79 years: (Repeat INCOME IN 1989).....	11085.....	2920 .....	1,13,1
	80 to 84 years: (Repeat INCOME IN 1989).....	11184.....	3019 .....	1,14,1
	85 to 89 years: (Repeat INCOME IN 1989).....	11283.....	3118 .....	1,15,1
	90 to 94 years: (Repeat INCOME IN 1989).....	11382.....	3217 .....	1,16,1
	95 years and over: (Repeat INCOME IN 1989).....	11481.....	3316 .....	1,17,1
	Female: (Repeat AGE By INCOME IN 1989) .....	11580.....	3415 .....	2,1,1
PB10.	SEX(2) BY AGE(4) BY GROUP QUARTERS(10) [80] <i>Universe: Persons in group quarters 15 years and over</i> Male: 15 to 59 years: Institutionalized persons (00I-99I): Correctional institutions (20I-24I, 27I, 28I, 95I).....	13263.....	5098 .....	1,1,1
	Nursing homes (60I-67I).....	13272.....	5107 .....	1,1,2
	Mental (Psychiatric) hospitals (45I-48I) .....	13281.....	5116 .....	1,1,3
	Juvenile institutions (01I-05I, 10I-12I, 15I).....	13290.....	5125 .....	1,1,4
	Other institutions (00I, 06I-09I, 13I, 14I, 16I-19I, 25I, 26I, 29I-44I, 49I-59I, 68I-94I, 96I-99I) .....	13299.....	5134 .....	1,1,5
	Other persons in group quarters (00N-99N): College dormitories (87N).....	13308.....	5143 .....	1,1,6
	Military quarters (96N-98N).....	13317.....	5152 .....	1,1,7
	Emergency shelters for homeless (82N, 83N).....	13326.....	5161 .....	1,1,8
	Visible in street locations (84N, 85N).....	13335.....	5170 .....	1,1,9
	Other noninstitutional group quarters (00N-81N, 86N, 88N-95N, 99N).....	13344.....	5179 .....	1,1,10
	60 to 64 years: (Repeat GROUP QUARTERS) .....	13353.....	5188 .....	1,2,1
	65 to 74 years: (Repeat GROUP QUARTERS) .....	13443.....	5278 .....	1,3,1
	75 years and over: (Repeat GROUP QUARTERS) .....	13533.....	5368 .....	1,4,1
	Female: (Repeat AGE By GROUP QUARTERS).....	13623.....	5458 .....	2,1,1
PB11.	SEX(2) BY AGE(7) BY RATIO OF INCOME IN 1989 TO POVERTY LEVEL(9) [126] <i>Universe: Civilian noninstitutionalized persons 16 years and over for whom poverty status is determined</i> Male: 16 to 24 years: Under .50 .....	13983.....	5818 .....	1,1,1
	.50 to .74 .....	13992.....	5827 .....	1,1,2
	.75 to .99 .....	14001.....	5836 .....	1,1,3
	1.00 to 1.24 .....	14010.....	5845 .....	1,1,4
	1.25 to 1.49 .....	14019.....	5854 .....	1,1,5
	1.50 to 1.74 .....	14028.....	5863 .....	1,1,6
	1.75 to 1.84 .....	14037.....	5872 .....	1,1,7
	1.85 to 1.99 .....	14046.....	5881 .....	1,1,8
	2.00 and over .....	14055.....	5890 .....	1,1,9



TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB11.	SEX(2) BY AGE(7) BY RATIO OF INCOME IN 1989 TO POVERTY LEVEL(9) [126]—Con.			
	25 to 34 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) .....	14064.....	5899 .....	1,2,1
	35 to 44 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) .....	14145.....	5980 .....	1,3,1
	45 to 54 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) .....	14226.....	6061 .....	1,4,1
	55 to 64 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) .....	14307.....	6142 .....	1,5,1
	65 to 74 years: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) .....	14388.....	6223 .....	1,6,1
	75 years and over: (Repeat RATIO OF INCOME IN 1989 TO POVERTY LEVEL) .....	14469.....	6304 .....	1,7,1
	Female: (Repeat AGE By RATIO OF INCOME IN 1989 TO POVERTY LEVEL) .....	14550.....	6385 .....	2,1,1
PB12.	SEX(2) BY AGE(7) BY TENURE(2) BY UNITS IN STRUCTURE(10) [280]			
	Universe: Civilian persons 16 years and over in households			
	Male:			
	16 to 24 years:			
	Owner occupied:			
	1, detached.....	15117.....	6952 .....	1,1,1,1
	1, attached.....	15126.....	6961 .....	1,1,1,2
	2.....	15135.....	6970 .....	1,1,1,3
	3 or 4.....	15144.....	6979 .....	1,1,1,4
	5 to 9.....	15153.....	6988 .....	1,1,1,5
	10 to 19.....	15162.....	6997 .....	1,1,1,6
	20 to 49.....	15171.....	7006 .....	1,1,1,7
	50 or more.....	15180.....	7015 .....	1,1,1,8
	Mobile home or trailer.....	15189.....	7024 .....	1,1,1,9
	Other.....	15198.....	7033 .....	1,1,1,10
	Renter occupied:			
	(Repeat UNITS IN STRUCTURE) .....	15207.....	7042 .....	1,1,2,1
	25 to 34 years: (Repeat TENURE By UNITS IN STRUCTURE).....	15297.....	7132 .....	1,2,1,1
	35 to 44 years: (Repeat TENURE By UNITS IN STRUCTURE).....	15477.....	7312 .....	1,3,1,1
	45 to 54 years: (Repeat TENURE By UNITS IN STRUCTURE).....	15657.....	7492 .....	1,4,1,1
	55 to 64 years: (Repeat TENURE By UNITS IN STRUCTURE).....	15837.....	7672 .....	1,5,1,1
	65 to 74 years: (Repeat TENURE By UNITS IN STRUCTURE).....	16017.....	7852 .....	1,6,1,1
	75 years and over: (Repeat TENURE By UNITS IN STRUCTURE).....	16197.....	8032 .....	1,7,1,1
	Filler.....	16323.....	8158 .....	
	End of Segment			

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB12.	SEX(2) BY AGE(7) BY TENURE(2) BY UNITS IN STRUCTURE(10) [280]—Con. 75 years and over: (Repeat TENURE By UNITS IN STRUCTURE)—Con. ....	16631 .....	301 .....	1,7,2,5
	Female: (Repeat AGE By TENURE By UNITS IN STRUCTURE) .....	16685 .....	355 .....	2,1,1,1
PB13.	SEX(2) BY AGE(7) BY VEHICLES AVAILABLE(2) [28] Universe: <i>Civilian persons 16 years and over in households</i> Male: 16 to 24 years: in housing unit with 1 or more vehicles available .....	17945 .....	1615 .....	1,1,1
	in housing unit with no vehicles available .....	17954 .....	1624 .....	1,1,2
	25 to 34 years: (Repeat VEHICLES AVAILABLE) .....	17963 .....	1633 .....	1,2,1
	35 to 44 years: (Repeat VEHICLES AVAILABLE) .....	17981 .....	1651 .....	1,3,1
	45 to 54 years: (Repeat VEHICLES AVAILABLE) .....	17999 .....	1669 .....	1,4,1
	55 to 64 years: (Repeat VEHICLES AVAILABLE) .....	18017 .....	1687 .....	1,5,1
	65 to 74 years: (Repeat VEHICLES AVAILABLE) .....	18035 .....	1705 .....	1,6,1
	75 years and over: (Repeat VEHICLES AVAILABLE) .....	18053 .....	1723 .....	1,7,1
	Female: (Repeat AGE By VEHICLES AVAILABLE) .....	18071 .....	1741 .....	2,1,1
PB14.	SEX(2) BY AGE(7) BY EARNINGS IN 1989(11) [154] Universe: <i>Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: No earnings .....	18197 .....	1867 .....	1,1,1
	With earnings: \$1 to \$4,999 or less .....	18206 .....	1876 .....	1,1,2
	\$5,000 to \$9,999 .....	18215 .....	1885 .....	1,1,3
	\$10,000 to \$14,999 .....	18224 .....	1894 .....	1,1,4
	\$15,000 to \$19,999 .....	18233 .....	1903 .....	1,1,5
	\$20,000 to \$24,999 .....	18242 .....	1912 .....	1,1,6
	\$25,000 to \$34,999 .....	18251 .....	1921 .....	1,1,7
	\$35,000 to \$49,999 .....	18260 .....	1930 .....	1,1,8
	\$50,000 to \$74,999 .....	18269 .....	1939 .....	1,1,9
	\$75,000 to \$99,999 .....	18278 .....	1948 .....	1,1,10
	\$100,000 or more .....	18287 .....	1957 .....	1,1,11
	25 to 34 years: (Repeat EARNINGS IN 1989) .....	18296 .....	1966 .....	1,2,1
	35 to 44 years: (Repeat EARNINGS IN 1989) .....	18395 .....	2065 .....	1,3,1
	45 to 54 years: (Repeat EARNINGS IN 1989) .....	18494 .....	2164 .....	1,4,1
	55 to 64 years: (Repeat EARNINGS IN 1989) .....	18593 .....	2263 .....	1,5,1
	65 to 74 years: (Repeat EARNINGS IN 1989) .....	18692 .....	2362 .....	1,6,1
	75 years and over: (Repeat EARNINGS IN 1989) .....	18791 .....	2461 .....	1,7,1
	Female: (Repeat AGE By EARNINGS IN 1989) .....	18890 .....	2560 .....	2,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB15.	SEX(2) BY RACE(5) BY AGE(6) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) [600] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years</i>			
	Male:			
	White:			
	16 to 24 years:			
	Employed, at work 35 or more hours.....	19583.....	3253.....	1,1,1,1
	Employed, at work 15 to 34 hours.....	19592.....	3262.....	1,1,1,2
	Employed, at work 1 to 14 hours.....	19601.....	3271.....	1,1,1,3
	Employed, with a job, but not at work.....	19610.....	3280.....	1,1,1,4
	Unemployed, last worked 1989 or 1990.....	19619.....	3289.....	1,1,1,5
	Unemployed, last worked 1988 or earlier.....	19628.....	3298.....	1,1,1,6
	Unemployed, never worked.....	19637.....	3307.....	1,1,1,7
	Not in labor force, last worked 1989 or 1990.....	19646.....	3316.....	1,1,1,8
	Not in labor force, last worked 1988 or earlier.....	19655.....	3325.....	1,1,1,9
	Not in labor force, never worked.....	19664.....	3334.....	1,1,1,10
	25 to 34 years:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	19673.....	3343.....	1,1,2,1
	35 to 44 years:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	19763.....	3433.....	1,1,3,1
	45 to 54 years:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	19853.....	3523.....	1,1,4,1
	55 to 59 years:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	19943.....	3613.....	1,1,5,1
	60 to 64 years:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	20033.....	3703.....	1,1,6,1
	Black:			
	(Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	20123.....	3793.....	1,2,1,1
	American Indian, Eskimo, or Aleut:			
	(Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	20663.....	4333.....	1,3,1,1
	Asian or Pacific Islander:			
	(Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	21203.....	4873.....	1,4,1,1
	Other race:			
	(Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	21743.....	5413.....	1,5,1,1
	Female:			
	(Repeat RACE By AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	22283.....	5953.....	2,1,1,1
	Filter.....	24488.....	8158	
	End of Segment			
	Female:			
	(Repeat RACE By AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)—Con.....	24796.....	301.....	2,5,1,6

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB16.	SEX(2) BY RACE AND HISPANIC ORIGIN(3) BY AGE(6) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) [360] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years</i> Male: Hispanic origin: 16 to 24 years: Employed, at work 35 or more hours ..... Employed, at work 15 to 34 hours ..... Employed, at work 1 to 14 hours ..... Employed, with a job, but not at work ..... Unemployed, last worked 1989 or 1990 ..... Unemployed, last worked 1988 or earlier ..... Unemployed, never worked ..... Not in labor force, last worked 1989 or 1990 ..... Not in labor force, last worked 1988 or earlier ..... Not in labor force, never worked ..... 25 to 34 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) ..... 35 to 44 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) ..... 45 to 54 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) ..... 55 to 59 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) ..... 60 to 64 years: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) ..... White, not of Hispanic origin: (Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) ..... Other races, not of Hispanic origin: (Repeat AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) ..... Female: (Repeat RACE AND HISPANIC ORIGIN By AGE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) ..... PB17. SEX(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) BY HOUSEHOLD TYPE AND RELATIONSHIP(15) [300] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years</i> Male: Employed, at work 35 or more hours: In married-couple family households: Householder or spouse: With own children under 18 years ..... No own children under 18 years ..... Parent ..... Child ..... Other relatives ..... Nonrelatives .....	26291 ..... 25300 ..... 25309 ..... 25318 ..... 25327 ..... 25336 ..... 25345 ..... 25354 ..... 25363 ..... 25372 ..... 25381 ..... 25471 ..... 25581 ..... 25651 ..... 25741 ..... 25831 ..... 26371 ..... 26911 ..... 28531 ..... 28540 ..... 28549 ..... 28558 ..... 28567 ..... 28576 .....	796 ..... 805 ..... 814 ..... 823 ..... 832 ..... 841 ..... 850 ..... 859 ..... 868 ..... 877 ..... 886 ..... 976 ..... 1066 ..... 1156 ..... 1246 ..... 1336 ..... 1876 ..... 2416 ..... 4036 ..... 4045 ..... 4054 ..... 4063 ..... 4072 ..... 4081 .....	1,1,1,1 1,1,1,2 1,1,1,3 1,1,1,4 1,1,1,5 1,1,1,6 1,1,1,7 1,1,1,8 1,1,1,9 1,1,1,10 1,1,2,1 1,1,3,1 1,1,4,1 1,1,5,1 1,1,6,1 1,2,1,1 1,3,1,1 2,1,1,1 1,1,1 1,1,2 1,1,3 1,1,4 1,1,5 1,1,6

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB17.	SEX(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) BY HOUSEHOLD TYPE AND RELATIONSHIP(15) [300]—Con. In other family households: Householder: With own children under 18 years..... No own children under 18 years..... Parent..... Child..... Other relatives..... Nonrelatives..... In nonfamily households: Living alone..... Not living alone..... In group quarters..... Employed, at work 15 to 34 hours: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Employed, at work 1 to 14 hours: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Employed, with a job, but not at work: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Unemployed, last worked 1989 or 1990: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Unemployed, last worked 1988 or earlier: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Unemployed, never worked: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Not in labor force, last worked 1989 or 1990: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Not in labor force, last worked 1988 or earlier: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Not in labor force, never worked: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Female: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED BY HOUSEHOLD TYPE AND RELATIONSHIP)..... PB18. SEX(2) BY AGE(5) BY EDUCATIONAL ATTAINMENT(5) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) [500] Universe: Civilian noninstitutionalized persons 25 to 64 years Male: 25 to 34 years: Not high school graduate: Employed, at work 35 or more hours..... Employed, at work 15 to 34 hours..... Employed, at work 1 to 14 hours..... Employed, with a job, but not at work..... Unemployed, last worked 1989 or 1990..... Unemployed, last worked 1988 or earlier..... Unemployed, never worked..... Not in labor force, last worked 1989 or 1990..... Not in labor force, last worked 1988 or earlier..... Not in labor force, never worked..... High school graduate (includes equivalency): (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	28585..... 28594..... 28603..... 28612..... 28621..... 28630..... 28639..... 28648..... 28657..... 28666..... 28801..... 28836..... 29071..... 29206..... 29341..... 29476..... 29611..... 29746..... 29881..... 31231..... 31240..... 31249..... 31258..... 31267..... 31275..... 31285..... 31294..... 31303..... 31312..... 31321.....	4090..... 4099..... 4108..... 4117..... 4126..... 4135..... 4144..... 4153..... 4162..... 4171..... 4306..... 4441..... 4576..... 4711..... 4846..... 4981..... 5116..... 5251..... 5386..... 6736..... 6745..... 6754..... 6763..... 6772..... 6781..... 6790..... 6799..... 6808..... 6817..... 6826.....	1,1,7 1,1,8 1,1,9 1,1,10 1,1,11 1,1,12 1,1,13 1,1,14 1,1,15 1,2,1 1,3,1 1,4,1 1,5,1 1,6,1 1,7,1 1,8,1 1,9,1 1,10,1 2,1,1 1,1,1,1 1,1,1,2 1,1,1,3 1,1,1,4 1,1,1,5 1,1,1,6 1,1,1,7 1,1,1,8 1,1,1,9 1,1,1,10 1,1,2,1

**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB18.	SEX(2) BY AGE(5) BY EDUCATIONAL ATTAINMENT(5) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) [500]—Con.			
	Some college or associate degree: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	31411 .....	6916 .....	1,1,3,1
	Bachelor's degree: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	31501 .....	7006 .....	1,1,4,1
	Graduate or professional degree: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	31591 .....	7096 .....	1,1,5,1
	35 to 44 years: (Repeat EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	31681 .....	7186 .....	1,2,1,1
	45 to 54 years: (Repeat EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	32131 .....	7636 .....	1,3,1,1
	55 to 59 years: (Repeat EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	32581 .....	8086 .....	1,4,1,1
	Filler.....	32653 .....	8158 .....	
	End of Segment			
	55 to 59 years: (Repeat EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)—Con. ....	32961 .....	301 .....	1,4,1,9
	60 to 64 years: (Repeat EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	33339 .....	679 .....	1,5,1,1
	Female: (Repeat AGE By EDUCATIONAL ATTAINMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	33789 .....	1129 .....	2,1,1,1
PB19.	SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) [200] <i>Universe: Civilian noninstitutionalized persons 16 to 24 years</i> <i>Male:</i> Not high school graduate: Enrolled in school:			
	Employed, at work 35 or more hours .....	36039 .....	3379 .....	1,1,1,1
	Employed, at work 15 to 34 hours .....	36048 .....	3388 .....	1,1,1,2
	Employed, at work 1 to 14 hours .....	36057 .....	3397 .....	1,1,1,3
	Employed, with a job, but not at work .....	36066 .....	3406 .....	1,1,1,4
	Unemployed, last worked 1989 or 1990 .....	36075 .....	3415 .....	1,1,1,5
	Unemployed, last worked 1988 or earlier .....	36084 .....	3424 .....	1,1,1,6
	Unemployed, never worked .....	36093 .....	3433 .....	1,1,1,7
	Not in labor force, last worked 1989 or 1990 .....	36102 .....	3442 .....	1,1,1,8
	Not in labor force, last worked 1988 or earlier .....	36111 .....	3451 .....	1,1,1,9
	Not in labor force, never worked .....	36120 .....	3460 .....	1,1,1,10

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB19.	SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) [200]—Con. Not enrolled in school: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	36129.....	3469.....	1,1,2,1
	High school graduate (includes equivalency): (Repeat SCHOOL ENROLLMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	36219.....	3559.....	1,2,1,1
	Some college or associate degree: (Repeat SCHOOL ENROLLMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	36399.....	3739.....	1,3,1,1
	Bachelor's degree: (Repeat SCHOOL ENROLLMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	36579.....	3919.....	1,4,1,1
	Graduate or professional degree: (Repeat SCHOOL ENROLLMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	36759.....	4099.....	1,5,1,1
	Female: (Repeat EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	36939.....	4279.....	2,1,1,1
PB20.	SEX(2) BY AGE(5) BY VETERAN STATUS(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) [200] <i>Universe: Civilian noninstitutionalized persons 25 to 64 years</i> Male: 25 to 34 years: Veteran: Employed, at work 35 or more hours..... Employed, at work 15 to 34 hours..... Employed, at work 1 to 14 hours..... Employed, with a job, but not at work..... Unemployed, last worked 1989 or 1990..... Unemployed, last worked 1988 or earlier..... Unemployed, never worked..... Not in labor force, last worked 1989 or 1990..... Not in labor force, last worked 1988 or earlier..... Not in labor force, never worked.....	37839..... 37848..... 37857..... 37866..... 37875..... 37884..... 37893..... 37902..... 37911..... 37920.....	5179..... 5188..... 5197..... 5206..... 5215..... 5224..... 5233..... 5242..... 5251..... 5260.....	1,1,1,1 1,1,1,2 1,1,1,3 1,1,1,4 1,1,1,5 1,1,1,6 1,1,1,7 1,1,1,8 1,1,1,9 1,1,1,10
	Nonveteran: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	37929.....	5269.....	1,1,2,1
	35 to 44 years: (Repeat VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	38019.....	5359.....	1,2,1,1
	45 to 54 years: (Repeat VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	38199.....	5529.....	1,3,1,1
	55 to 59 years: (Repeat VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	38379.....	5719.....	1,4,1,1
	60 to 64 years: (Repeat VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED).....	38559.....	5899.....	1,5,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB20.	SEX(2) BY AGE(5) BY VETERAN STATUS(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) [200]—Con. Female: (Repeat AGE By VETERAN STATUS By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	38739.....	6079 .....	2,1,1,1
PB21.	SEX(2) BY AGE(6) BY VEHICLES AVAILABLE(2) BY EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED(10) [240] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years in housing units</i> Male: 16 to 24 years: In housing unit with 1 or more vehicles available: Employed, at work 35 or more hours .....	39639.....	6979 .....	1,1,1,1
	Employed, at work 15 to 34 hours .....	39648.....	6988 .....	1,1,1,2
	Employed, at work 1 to 14 hours .....	39657.....	6997 .....	1,1,1,3
	Employed, with a job, but not at work .....	39666.....	7006 .....	1,1,1,4
	Unemployed, last worked 1989 or 1990 .....	39675.....	7015 .....	1,1,1,5
	Unemployed, last worked 1988 or earlier .....	39684.....	7024 .....	1,1,1,6
	Unemployed, never worked .....	39693.....	7033 .....	1,1,1,7
	Not in labor force, last worked 1989 or 1990 .....	39702.....	7042 .....	1,1,1,8
	Not in labor force, last worked 1988 or earlier .....	39711.....	7051 .....	1,1,1,9
	Not in labor force, never worked .....	39720.....	7060 .....	1,1,1,10
	In housing unit with no vehicles available: (Repeat EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	39729.....	7069 .....	1,1,2,1
	25 to 34 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	39819.....	7159 .....	1,2,1,1
	35 to 44 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	39999.....	7339 .....	1,3,1,1
	45 to 54 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	40179.....	7519 .....	1,4,1,1
	55 to 59 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	40359.....	7699 .....	1,5,1,1
	60 to 64 years: (Repeat VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	40539.....	7879 .....	1,6,1,1
	Female: (Repeat AGE By VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED) .....	40719.....	8059 .....	2,1,1,1
	Filler.....	40818.....	8158 .....	
	End of Segment			
	Female: (Repeat AGE By VEHICLES AVAILABLE By EMPLOYMENT STATUS, HOURS WORKED, AND YEAR LAST WORKED)—Con.....	41126.....	801 .....	2,1,2,2



TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB22.	SEX(2) BY RACE(5) BY AGE(6) BY WORK STATUS IN 1989(4) [240] Universe: Civilian noninstitutionalized persons 16 to 64 years Male: White: 16 to 24 years: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks..... Worked in 1989, usually worked 1 to 34 hours per week..... Did not work in 1989..... 25 to 34 years: (Repeat WORK STATUS IN 1989)..... 35 to 44 years: (Repeat WORK STATUS IN 1989)..... 45 to 54 years: (Repeat WORK STATUS IN 1989)..... 55 to 59 years: (Repeat WORK STATUS IN 1989)..... 60 to 64 years: (Repeat WORK STATUS IN 1989)..... Black: (Repeat AGE By WORK STATUS IN 1989)..... American Indian, Eskimo, or Aleut: (Repeat AGE By WORK STATUS IN 1989)..... Asian or Pacific Islander: (Repeat AGE By WORK STATUS IN 1989)..... Other race: (Repeat AGE By WORK STATUS IN 1989)..... Female: (Repeat RACE By AGE By WORK STATUS IN 1989).....	42107..... 42116..... 42125..... 42134.....  42143..... 42179..... 42215..... 42251..... 42287.....  42323..... 42539..... 42755..... 42971..... 43187.....	1282..... 1291..... 1300..... 1309.....  1318..... 1354..... 1390..... 1426..... 1462.....  1498..... 1714..... 1930..... 2146..... 2362.....	1,1,1,1 1,1,1,2 1,1,1,3 1,1,1,4  1,1,2,1 1,1,3,1 1,1,4,1 1,1,5,1 1,1,6,1  1,2,1,1 1,3,1,1 1,4,1,1 1,5,1,1 2,1,1,1
PB23.	SEX(2) BY RACE AND HISPANIC ORIGIN(3) BY AGE(6) BY WORK STATUS IN 1989(4) [144] Universe: Civilian noninstitutionalized persons 16 to 64 years Male: Hispanic origin: 16 to 24 years: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks..... Worked in 1989, usually worked 1 to 34 hours per week..... Did not work in 1989..... 25 to 34 years: (Repeat WORK STATUS IN 1989)..... 35 to 44 years: (Repeat WORK STATUS IN 1989)..... 45 to 54 years: (Repeat WORK STATUS IN 1989)..... 55 to 59 years: (Repeat WORK STATUS IN 1989)..... 60 to 64 years: (Repeat WORK STATUS IN 1989)..... White, not of Hispanic origin: (Repeat AGE By WORK STATUS IN 1989).....	44267..... 44276..... 44285..... 44294.....  44303..... 44339..... 44375..... 44411..... 44447..... 44483.....	3442..... 3451..... 3460..... 3469.....  3478..... 3514..... 3550..... 3586..... 3622..... 3658.....	1,1,1,1 1,1,1,2 1,1,1,3 1,1,1,4  1,1,2,1 1,1,3,1 1,1,4,1 1,1,5,1 1,1,6,1 1,2,1,1

**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB23.	SEX(2) BY RACE AND HISPANIC ORIGIN(3) BY AGE(6) BY WORK STATUS IN 1989(4) [144]—Con. Other races, not of Hispanic origin: (Repeat AGE By WORK STATUS IN 1989).....	44699.....	3874.....	1,3,1,1
	Female: (Repeat RACE AND HISPANIC ORIGIN By AGE By WORK STATUS IN 1989).....	44915.....	4090.....	2,1,1,1
PB24.	SEX(2) BY WORK STATUS IN 1989(4) BY HOUSEHOLD TYPE AND RELATIONSHIP(15) [120] Universe: <i>Civilian noninstitutionalized persons 16 to 64 years</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: In married-couple family households: Householder or spouse: With own children under 18 years.....	45563.....	4738.....	1,1,1
	No own children under 18 years.....	45572.....	4747.....	1,1,2
	Parent.....	45581.....	4756.....	1,1,3
	Child.....	45590.....	4765.....	1,1,4
	Other relatives.....	45599.....	4774.....	1,1,5
	Nonrelatives.....	45608.....	4783.....	1,1,6
	In other family households: Householder: With own children under 18 years.....	45617.....	4792.....	1,1,7
	No own children under 18 years.....	45626.....	4801.....	1,1,8
	Parent.....	45635.....	4810.....	1,1,9
	Child.....	45644.....	4819.....	1,1,10
	Other relatives.....	45653.....	4828.....	1,1,11
	Nonrelatives.....	45662.....	4837.....	1,1,12
	In nonfamily households: Living alone.....	45671.....	4846.....	1,1,13
	Not living alone.....	45680.....	4855.....	1,1,14
	In group quarters.....	45689.....	4864.....	1,1,15
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP).....	45698.....	4873.....	1,2,1
	Worked in 1989, usually worked 1 to 34 hours per week: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP).....	45833.....	5008.....	1,3,1
	Did not work in 1989: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP).....	45968.....	5143.....	1,4,1
	Female: (Repeat WORK STATUS IN 1989 By HOUSEHOLD TYPE AND RELATIONSHIP).....	46103.....	5278.....	2,1,1
PB25.	SEX(2) BY AGE(5) BY EDUCATIONAL ATTAINMENT(5) BY WORK STATUS IN 1989(4) [200] Universe: <i>Civilian noninstitutionalized persons 25 to 64 years</i> Male: 25 to 34 years: Not high school graduate: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks.....	46643.....	5818.....	1,1,1,1
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks.....	46652.....	5827.....	1,1,1,2
	Worked in 1989, usually worked 1 to 34 hours per week.....	46661.....	5836.....	1,1,1,3
	Did not work in 1989.....	46670.....	5845.....	1,1,1,4
	High school graduate (includes equivalency): (Repeat WORK STATUS IN 1989).....	46679.....	5854.....	1,1,2,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB25.	SEX(2) BY AGE(5) BY EDUCATIONAL ATTAINMENT(5) BY WORK STATUS IN 1989(4) [200]—Con. Some college or associate degree: (Repeat WORK STATUS IN 1989) .....	46715.....	5890 .....	1,1,3,1
	Bachelor's degree: (Repeat WORK STATUS IN 1989) .....	46751.....	5926 .....	1,1,4,1
	Graduate or professional degree: (Repeat WORK STATUS IN 1989) .....	46787.....	5962 .....	1,1,5,1
	35 to 44 years: (Repeat EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989) .....	46823.....	5998 .....	1,2,1,1
	45 to 54 years: (Repeat EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989) .....	47003.....	6178 .....	1,3,1,1
	55 to 59 years: (Repeat EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989) .....	47183.....	6358 .....	1,4,1,1
	60 to 64 years: (Repeat EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989) .....	47363.....	6538 .....	1,5,1,1
	Female: (Repeat AGE By EDUCATIONAL ATTAINMENT By WORK STATUS IN 1989) .....	47543.....	6718 .....	2,1,1,1
PB26.	SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) BY WORK STATUS IN 1989(4) [90] <i>Universe: Civilian noninstitutionalized persons 16 to 24 years</i> Male: Not high school graduate: Enrolled in school: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks.....	48443.....	7618 .....	1,1,1,1
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks.....	48452.....	7627 .....	1,1,1,2
	Worked in 1989, usually worked 1 to 34 hours per week.....	48461.....	7636 .....	1,1,1,3
	Did not work in 1989 .....	48470.....	7645 .....	1,1,1,4
	Not enrolled in school: (Repeat WORK STATUS IN 1989) .....	48479.....	7654 .....	1,1,2,1
	High school graduate (includes equivalency): (Repeat SCHOOL ENROLLMENT By WORK STATUS IN 1989) .....	48515.....	7690 .....	1,2,1,1
	Some college or associate degree: (Repeat SCHOOL ENROLLMENT By WORK STATUS IN 1989) .....	48587.....	7762 .....	1,3,1,1
	Bachelor's degree: (Repeat SCHOOL ENROLLMENT By WORK STATUS IN 1989) .....	48659.....	7834 .....	1,4,1,1
	Graduate or professional degree: (Repeat SCHOOL ENROLLMENT By WORK STATUS IN 1989) .....	48731.....	7906 .....	1,5,1,1
	Female: (Repeat EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT By WORK STATUS IN 1989) .....	48803.....	7978 .....	2,1,1,1
	Filler .....	48983.....	8158 .....	
	End of Segment			

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB26.	SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) BY WORK STATUS IN 1989(4) [80]—Con. Female: (Repeat EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT By WORK STATUS IN 1989)—Con.....	49291 .....	301 .....	2,3,2,1
PB27.	SEX(2) BY AGE(5) BY VETERAN STATUS(2) BY WORK STATUS IN 1989(4) [80] <i>Universe: Civilian noninstitutionalized persons 25 to 64 years</i> Male: 25 to 34 years: Veteran: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks..... Worked in 1989, usually worked 1 to 34 hours per week..... Did not work in 1989..... Nonveteran: (Repeat WORK STATUS IN 1989)..... 35 to 44 years: (Repeat VETERAN STATUS By WORK STATUS IN 1989)..... 45 to 54 years: (Repeat VETERAN STATUS By WORK STATUS IN 1989)..... 55 to 59 years: (Repeat VETERAN STATUS By WORK STATUS IN 1989)..... 60 to 64 years: (Repeat VETERAN STATUS By WORK STATUS IN 1989)..... Female: (Repeat AGE By VETERAN STATUS By WORK STATUS IN 1989).....	49471 .....	481 .....	1,1,1,1
		49480 .....	490 .....	1,1,1,2
		49489 .....	499 .....	1,1,1,3
		49498 .....	508 .....	1,1,1,4
		49507 .....	517 .....	1,1,2,1
		49543 .....	553 .....	1,2,1,1
		49615 .....	625 .....	1,3,1,1
		49687 .....	697 .....	1,4,1,1
		49759 .....	769 .....	1,5,1,1
		49831 .....	841 .....	2,1,1,1
PB28.	SEX(2) BY AGE(6) BY VEHICLES AVAILABLE(2) BY WORK STATUS IN 1989(4) [96] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years in housing units</i> Male: 16 to 24 years: In housing unit with 1 or more vehicles available: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks..... Worked in 1989, usually worked 1 to 34 hours per week..... Did not work in 1989..... In housing unit with no vehicles available: (Repeat WORK STATUS IN 1989)..... 25 to 34 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989)..... 35 to 44 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989).....	50191 .....	1201 .....	1,1,1,1
		50200 .....	1210 .....	1,1,1,2
		50209 .....	1219 .....	1,1,1,3
		50218 .....	1228 .....	1,1,1,4
		50227 .....	1237 .....	1,1,2,1
		50263 .....	1273 .....	1,2,1,1
		50335 .....	1345 .....	1,3,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB28.	SEX(2) BY AGE(6) BY VEHICLES AVAILABLE(2) BY WORK STATUS IN 1989(4) [96]—Con. 45 to 54 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989) .....	50407.....	1417 .....	1,4,1,1
	55 to 59 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989) .....	50479.....	1489 .....	1,5,1,1
	60 to 64 years: (Repeat VEHICLES AVAILABLE By WORK STATUS IN 1989) .....	50551.....	1561 .....	1,6,1,1
	Female: (Repeat AGE By VEHICLES AVAILABLE By WORK STATUS IN 1989) .....	50623.....	1633 .....	2,1,1,1
PB29.	FILLER .....	51055.....	2066	
PB30.	FILLER .....	52675.....	3685	
PB31.	FILLER .....	53647.....	4657	
PB32.	FILLER .....	54457.....	5467	
PB33.	FILLER .....	55807.....	6817	
PB34.	FILLER .....	56347.....	7357	
PB35.	FILLER .....	56779.....	7789	
PB36.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY RACE(5) BY AGE(6) [180] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: White: 16 to 24 years.....	56887.....	7897 .....	1,1,1,1,1
	25 to 34 years.....	56902.....	7912 .....	1,1,1,1,2
	35 to 44 years.....	56917.....	7927 .....	1,1,1,1,3
	45 to 54 years.....	56932.....	7942 .....	1,1,1,1,4
	55 to 59 years.....	56947.....	7957 .....	1,1,1,1,5
	60 to 64 years.....	56962.....	7972 .....	1,1,1,1,6
	Black: (Repeat AGE) .....	56977.....	7987 .....	1,1,1,2,1
	American Indian, Eskimo, or Aleut: (Repeat AGE) .....	57067.....	8077 .....	1,1,1,3,1
	Filler .....	57142.....	8152	
	End of Segment			
	American Indian, Eskimo, or Aleut: (Repeat AGE)—Con. ....	57456.....	301 .....	1,1,1,3,6
	Asian or Pacific Islander: (Repeat AGE) .....	57471.....	316 .....	1,1,1,4,1
	Other race: (Repeat AGE) .....	57561.....	406 .....	1,1,1,5,1
	Female: (Repeat RACE By AGE) .....	57651.....	496 .....	1,1,2,1,1
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By RACE By AGE) .....	58101.....	946 .....	1,2,1,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB36.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY RACE(5) BY AGE(6) [180]—Con. Worked In 1989, usually worked 1 to 34 hours per week: (Repeat SEX By RACE By AGE) .....	59001 .....	1846 .....	1,3,1,1,1
PB37.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY RACE AND HISPANIC ORIGIN(3) BY AGE(6) [108] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked In 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Hispanic origin: 16 to 24 years .....	59901 .....	2746 .....	1,1,1,1,1
	25 to 34 years .....	59916 .....	2761 .....	1,1,1,1,2
	35 to 44 years .....	59931 .....	2776 .....	1,1,1,1,3
	45 to 54 years .....	59946 .....	2791 .....	1,1,1,1,4
	55 to 59 years .....	59961 .....	2806 .....	1,1,1,1,5
	60 to 64 years .....	59976 .....	2821 .....	1,1,1,1,6
	White, not of Hispanic origin: (Repeat AGE) .....	59991 .....	2836 .....	1,1,1,2,1
	Other races, not of Hispanic origin: (Repeat AGE) .....	60081 .....	2926 .....	1,1,1,3,1
	Female: (Repeat RACE AND HISPANIC ORIGIN By AGE) .....	60171 .....	3016 .....	1,1,2,1,1
	Worked In 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By RACE AND HISPANIC ORIGIN By AGE) .....	60441 .....	3286 .....	1,2,1,1,1
	Worked In 1989, usually worked 1 to 34 hours per week: (Repeat SEX By RACE AND HISPANIC ORIGIN By AGE) .....	60981 .....	3826 .....	1,3,1,1,1
PB38.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY HOUSEHOLD TYPE AND RELATIONSHIP(15) [90] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked In 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: In married-couple family households: Householder or spouse: With own children under 18 years .....	61521 .....	4366 .....	1,1,1,1
	No own children under 18 years .....	61536 .....	4381 .....	1,1,1,2
	Parent .....	61551 .....	4396 .....	1,1,1,3
	Child .....	61566 .....	4411 .....	1,1,1,4
	Other relatives .....	61581 .....	4426 .....	1,1,1,5
	Nonrelatives .....	61596 .....	4441 .....	1,1,1,6
	In other family households: Householder: With own children under 18 years .....	61611 .....	4456 .....	1,1,1,7
	No own children under 18 years .....	61626 .....	4471 .....	1,1,1,8
	Parent .....	61641 .....	4486 .....	1,1,1,9
	Child .....	61656 .....	4501 .....	1,1,1,10
	Other relatives .....	61671 .....	4516 .....	1,1,1,11
	Nonrelatives .....	61686 .....	4531 .....	1,1,1,12

**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
FB38.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY HOUSEHOLD TYPE AND RELATIONSHIP(15) [90]—Con. In nonfamily households: Living alone..... Not living alone..... In group quarters..... Female: (Repeat HOUSEHOLD TYPE AND RELATIONSHIP)..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By HOUSEHOLD TYPE AND RELATIONSHIP)..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By HOUSEHOLD TYPE AND RELATIONSHIP).....	61701..... 61716..... 61731..... 61746..... 61971..... 62421.....	4546..... 4561..... 4576..... 4591..... 4816..... 5266.....	1,1,1,13 1,1,1,14 1,1,1,15 1,1,2,1 1,2,1,1 1,3,1,1
PB39.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY AGE(4) BY EDUCATIONAL ATTAINMENT(5) [120] <i>Universe: Civilian noninstitutionalized persons 25 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: 25 to 34 years: Not high school graduate..... High school graduate (includes equivalency)..... Some college or associate degree..... Bachelor's degree..... Graduate or professional degree..... 35 to 44 years: (Repeat EDUCATIONAL ATTAINMENT)..... 45 to 54 years: (Repeat EDUCATIONAL ATTAINMENT)..... 55 to 64 years: (Repeat EDUCATIONAL ATTAINMENT)..... Female: (Repeat AGE By EDUCATIONAL ATTAINMENT)..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By AGE By EDUCATIONAL ATTAINMENT)..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By AGE By EDUCATIONAL ATTAINMENT).....	62871..... 62886..... 62901..... 62916..... 62931..... 62946..... 63021..... 63096..... 63171..... 63471..... 64071.....	5716..... 573..... 5746..... 5761..... 5776..... 5791..... 5866..... 5941..... 6016..... 6316..... 6916.....	1,1,1,1,1 1,1,1,1,2 1,1,1,1,3 1,1,1,1,4 1,1,1,1,5 1,1,1,2,1 1,1,1,3,1 1,1,1,4,1 1,1,2,1,1 1,2,1,1,1 1,3,1,1,1
PB40.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) [60] <i>Universe: Civilian noninstitutionalized persons 16 to 24 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Not high school graduate: Enrolled in school..... Not enrolled in school..... High school graduate (includes equivalency): (Repeat SCHOOL ENROLLMENT).....	64671..... 64686..... 64701.....	7516..... 7531..... 7546.....	1,1,1,1,1 1,1,1,1,2 1,1,1,2,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB40.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY EDUCATIONAL ATTAINMENT(5) BY SCHOOL ENROLLMENT(2) [60]—Con.			
	Some college or associate degree: (Repeat SCHOOL ENROLLMENT).....	64731 .....	7576 .....	1,1,1,3,1
	Bachelor's degree: (Repeat SCHOOL ENROLLMENT).....	64761 .....	7606 .....	1,1,1,4,1
	Graduate or professional degree: (Repeat SCHOOL ENROLLMENT).....	64791 .....	7636 .....	1,1,1,5,1
	Female: (Repeat EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT).....	64821 .....	7666 .....	1,1,2,1,1
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT).....	64971 .....	7816 .....	1,2,1,1,1
	Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT).....	65271 .....	8116 .....	1,3,1,1,1
	Filler.....	65316 .....	8161 .....	
	End of Segment			
	Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By EDUCATIONAL ATTAINMENT By SCHOOL ENROLLMENT)—Con.....	65621 .....	301 .....	1,3,1,2,2
PB41.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY AGE(4) BY VETERAN STATUS(2) [48] <i>Universe: Civilian noninstitutionalized persons 25 to 64 years who worked in 1989</i> Total:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Male:			
	25 to 34 years:			
	Veteran.....	65876 .....	556 .....	1,1,1,1,1
	Nonveteran.....	65891 .....	571 .....	1,1,1,1,2
	35 to 44 years: (Repeat VETERAN STATUS).....	65906 .....	586 .....	1,1,1,2,1
	45 to 54 years: (Repeat VETERAN STATUS).....	65936 .....	616 .....	1,1,1,3,1
	55 to 64 years: (Repeat VETERAN STATUS).....	65966 .....	646 .....	1,1,1,4,1
	Female: (Repeat AGE By VETERAN STATUS).....	65996 .....	676 .....	1,1,2,1,1
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By AGE By VETERAN STATUS).....	66116 .....	796 .....	1,2,1,1,1
	Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By AGE By VETERAN STATUS).....	66356 .....	1036 .....	1,3,1,1,1



TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB42.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY VEHICLES AVAILABLE(2) [12] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years in housing units who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: In housing unit with 1 or more vehicles available ..... In housing unit with no vehicles available ..... Female: (Repeat VEHICLES AVAILABLE) ..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By VEHICLES AVAILABLE) ..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By VEHICLES AVAILABLE) .....	66596..... 66611..... 66626..... 66656..... 66716.....	1276..... 1291..... 1306..... 1336..... 1396.....	1,1,1,1 1,1,1,2 1,1,2,1 1,2,1,1 1,3,1,1
PB43.	SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81) [486] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Executive and administrative occupations, excluding management related occupations (000-022) ..... Management related occupations (023-042) ..... Engineers, architects, and surveyors (043-063) ..... Mathematical and computer scientists (064-068) ..... Natural scientists (069-083) ..... Physicians (084) ..... Dentists (085) ..... Other health diagnosing occupations (086-094) ..... Registered nurses (095) ..... Pharmacists (096) ..... Other health assessment and treating occupations (097-112) ..... Teachers, postsecondary (113-154) ..... Teachers, except postsecondary (155-162) ..... Counselors, educational and vocational (163) ..... Librarians, archivists, and curators (164-165) ..... Social scientists and urban planners (166-173) ..... Social, recreation, and religious workers (174-177) ..... Lawyers and judges (178-182) ..... Writers, artists, entertainers, and athletes (183-202) ..... Health technologists and technicians (203-212) ..... Engineering and related technologists and technicians (213-222) ..... Science technicians (223-225) ..... Computer programmers (229-232) ..... Other technicians, except health, engineering, and science (226-228, 233-242) ..... Supervisors and proprietors, sales occupations (243-252) ..... Sales representatives, finance and business services (253-257) .....	66776..... 66785..... 66794..... 66803..... 66812..... 66821..... 66830..... 66839..... 66848..... 66857..... 66866..... 66875..... 66884..... 66893..... 66902..... 66911..... 66920..... 66929..... 66938..... 66947..... 66956..... 66965..... 66974..... 66983..... 66992..... 67001.....	1456..... 1465..... 1474..... 1483..... 1492..... 1501..... 1510..... 1519..... 1528..... 1537..... 1546..... 1555..... 1564..... 1573..... 1582..... 1591..... 1600..... 1609..... 1618..... 1627..... 1636..... 1645..... 1654..... 1663..... 1672..... 1681.....	1,1,1 1,1,2 1,1,3 1,1,4 1,1,5 1,1,6 1,1,7 1,1,8 1,1,9 1,1,10 1,1,11 1,1,12 1,1,13 1,1,14 1,1,15 1,1,16 1,1,17 1,1,18 1,1,19 1,1,20 1,1,21 1,1,22 1,1,23 1,1,24 1,1,25 1,1,26

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB43.	SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81) [486]—Con.			
	Sales representatives, commodities except retail (258-262).....	67010.....	1690.....	1,1,27
	Sales workers, retail and personal services (263-282).....	67019.....	1699.....	1,1,28
	Sales related occupations (283-302).....	67028.....	1708.....	1,1,29
	Supervisors, administrative support occupations (303-307).....	67037.....	1717.....	1,1,30
	Computer equipment operators (308-312).....	67046.....	1726.....	1,1,31
	Secretaries, stenographers, and typists (313-315).....	67055.....	1735.....	1,1,32
	Information clerks (316-324).....	67064.....	1744.....	1,1,33
	Records processing occupations, except financial (325-336).....	67073.....	1753.....	1,1,34
	Financial records processing occupations (337-344).....	67082.....	1762.....	1,1,35
	Duplicating, mail and other office machine operators (345-347).....	67091.....	1771.....	1,1,36
	Communications equipment operators (348-353).....	67100.....	1780.....	1,1,37
	Mail and message distributing occupations (354-358).....	67109.....	1789.....	1,1,38
	Material recording, scheduling, and distributing clerks (359-374).....	67118.....	1798.....	1,1,39
	Adjusters and investigators (375-378).....	67127.....	1807.....	1,1,40
	Miscellaneous administrative support occupations (379-402).....	67136.....	1816.....	1,1,41
	Private household occupations (403-412).....	67145.....	1825.....	1,1,42
	Supervisors, protective service occupations (413-416).....	67154.....	1834.....	1,1,43
	Firefighting and fire prevention occupations (418-417).....	67163.....	1843.....	1,1,44
	Police and detectives (418-424).....	67172.....	1852.....	1,1,45
	Guards (425-432).....	67181.....	1861.....	1,1,46
	Food preparation and service occupations (433-444).....	67190.....	1870.....	1,1,47
	Health service occupations (445-447).....	67199.....	1879.....	1,1,48
	Cleaning and building service occupations, except household (448-455).....	67208.....	1888.....	1,1,49
	Personal service occupations (456-472).....	67217.....	1897.....	1,1,50
	Farm operators and managers (473-476).....	67226.....	1906.....	1,1,51
	Farm occupations, except managerial (477-484).....	67235.....	1915.....	1,1,52
	Related agricultural occupations (485-493).....	67244.....	1924.....	1,1,53
	Forestry and logging occupations (494-496).....	67253.....	1933.....	1,1,54
	Fishers, hunters, and trappers (497-502).....	67262.....	1942.....	1,1,55
	Mechanics and repairers (503-552).....	67271.....	1951.....	1,1,56
	Construction trades (553-612).....	67280.....	1960.....	1,1,57
	Extractive occupations (613-627).....	67289.....	1969.....	1,1,58
	Supervisors, production occupations (628-633).....	67298.....	1978.....	1,1,59
	Precision metal working occupations (634-655).....	67307.....	1987.....	1,1,60
	Precision woodworking occupations (656-665).....	67316.....	1996.....	1,1,61
	Precision textile, apparel, and furnishings machine workers (666-674).....	67325.....	2005.....	1,1,62
	Precision workers, assorted materials (675-685).....	67334.....	2014.....	1,1,63
	Precision food production occupations (686-688).....	67343.....	2023.....	1,1,64
	Precision inspectors, testers, and related workers (689-693).....	67352.....	2032.....	1,1,65
	Plant and system operators (694-702).....	67361.....	2041.....	1,1,66
	Metal working and plastic working machine operators (703-716).....	67370.....	2050.....	1,1,67
	Fabricating machine operators, n.e.c. (717-718).....	67379.....	2059.....	1,1,68
	Metal and plastic processing machine operators (719-725).....	67388.....	2068.....	1,1,69
	Woodworking machine operators (726-733).....	67397.....	2077.....	1,1,70

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB43.	SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81) [486]—Con.			
	Printing machine operators (734-737) .....	67406.....	2086.....	1,1,71
	Textile, apparel, and furnishings machine operators (738-752) .....	67415.....	2095.....	1,1,72
	Machine operators, assorted materials (753-782) .....	67424.....	2104.....	1,1,73
	Fabricators, assemblers, and hand working occupations (783-795) .....	67433.....	2113.....	1,1,74
	Production inspectors, testers, samplers, and weighers (796-802) .....	67442.....	2122.....	1,1,75
	Motor vehicle operators (803-822) .....	67451.....	2131.....	1,1,76
	Rail transportation occupations (823-827) .....	67460.....	2140.....	1,1,77
	Water transportation occupations (828-842) .....	67469.....	2149.....	1,1,78
	Material moving equipment operators (843-863) .....	67478.....	2158.....	1,1,79
	Handlers, equipment cleaners, helpers, and laborers (864-902) .....	67487.....	2167.....	1,1,80
	Unemployed, last occupation military (903-908) .....	67496.....	2176.....	1,1,81
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat OCCUPATION) .....	67505.....	2185.....	1,2,1
	Worked in 1989, usually worked 1 to 34 hours per week: (Repeat OCCUPATION) .....	68234.....	2914.....	1,3,1
	Female:			
	(Repeat WORK STATUS IN 1989 By OCCUPATION) .....	68963.....	3643.....	2,1,1
PB44.	FILLER .....	71150.....	5830	
PB45.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY OCCUPATION(81) [486] Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989 Total:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Male:			
	Executive and administrative occupations, excluding management related occupations (000-022) .....	75829.....	2344.....	1,1,1,1
	Management related occupations (023-042) .....	75844.....	2359.....	1,1,1,2
	Engineers, architects, and surveyors (043-063) .....	75859.....	2374.....	1,1,1,3
	Mathematical and computer scientists (064-068) .....	75874.....	2389.....	1,1,1,4
	Natural scientists (069-083) .....	75889.....	2404.....	1,1,1,5
	Physicians (084) .....	75904.....	2419.....	1,1,1,6
	Dentists (085) .....	75919.....	2434.....	1,1,1,7
	Other health diagnosing occupations (086-094) .....	75934.....	2449.....	1,1,1,8
	Registered nurses (095) .....	75949.....	2464.....	1,1,1,9
	Pharmacists (096) .....	75964.....	2479.....	1,1,1,10
	Other health assessment and treating occupations (097-112) .....	75979.....	2494.....	1,1,1,11
	Teachers, postsecondary (113-154) .....	75994.....	2509.....	1,1,1,12
	Teachers, except postsecondary (155-162) .....	76009.....	2524.....	1,1,1,13
	Counselors, educational and vocational (163) .....	76024.....	2539.....	1,1,1,14
	Librarians, archivists, and curators (164-185) .....	76039.....	2554.....	1,1,1,15
	Social scientists and urban planners (166-173) .....	76054.....	2569.....	1,1,1,16
	Social, recreation, and religious workers (174-177) .....	76069.....	2584.....	1,1,1,17
	Lawyers and judges (178-182) .....	76084.....	2599.....	1,1,1,18
	Writers, artists, entertainers, and athletes (183-202) .....	76099.....	2614.....	1,1,1,19
	Health technologists and technicians (203-212) .....	76114.....	2629.....	1,1,1,20
	Engineering and related technologists and technicians (213-222) .....	76129.....	2644.....	1,1,1,21

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB45.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY OCCUPATION(81) [486]—Con.			
	Science technicians (223-225) .....	76144 .....	2659 .....	1,1,1,22
	Computer programmers (229-232) .....	76159 .....	2674 .....	1,1,1,23
	Other technicians, except health, engineering, and science (226-228, 233-242) .....	76174 .....	2689 .....	1,1,1,24
	Supervisors and proprietors, sales occupations (243-252) .....	76189 .....	2704 .....	1,1,1,25
	Sales representatives, finance and business services (253-257) .....	76204 .....	2719 .....	1,1,1,26
	Sales representatives, commodities except retail (258-262) .....	76219 .....	2734 .....	1,1,1,27
	Sales workers, retail and personal services (263-282) .....	76234 .....	2749 .....	1,1,1,28
	Sales related occupations (283-302) .....	76249 .....	2764 .....	1,1,1,29
	Supervisors, administrative support occupations (303-307) .....	76264 .....	2779 .....	1,1,1,30
	Computer equipment operators (308-312) .....	76279 .....	2794 .....	1,1,1,31
	Secretaries, stenographers, and typists (313-315) .....	76294 .....	2809 .....	1,1,1,32
	Information clerks (316-324) .....	76309 .....	2824 .....	1,1,1,33
	Records processing occupations, except financial (325-336) .....	76324 .....	2839 .....	1,1,1,34
	Financial records processing occupations (337-344) .....	76339 .....	2854 .....	1,1,1,35
	Duplicating, mail and other office machine operators (345-347) .....	76354 .....	2869 .....	1,1,1,36
	Communications equipment operators (348-353) .....	76369 .....	2884 .....	1,1,1,37
	Mail and message distributing occupations (354-358) .....	76384 .....	2899 .....	1,1,1,38
	Material recording, scheduling, and distributing clerks (359-374) .....	76399 .....	2914 .....	1,1,1,39
	Adjusters and investigators (375-378) .....	76414 .....	2929 .....	1,1,1,40
	Miscellaneous administrative support occupations (379-402) .....	76429 .....	2944 .....	1,1,1,41
	Private household occupations (403-412) .....	76444 .....	2959 .....	1,1,1,42
	Supervisors, protective service occupations (413-415) .....	76459 .....	2974 .....	1,1,1,43
	Firefighting and fire prevention occupations (416-417) .....	76474 .....	2989 .....	1,1,1,44
	Police and detectives (418-424) .....	76489 .....	3004 .....	1,1,1,45
	Guards (425-432) .....	76504 .....	3019 .....	1,1,1,46
	Food preparation and service occupations (433-444) .....	76519 .....	3034 .....	1,1,1,47
	Health service occupations (445-447) .....	76534 .....	3049 .....	1,1,1,48
	Cleaning and building service occupations, except household (448-455) .....	76549 .....	3064 .....	1,1,1,49
	Personal service occupations (456-472) .....	76564 .....	3079 .....	1,1,1,50
	Farm operators and managers (473-476) .....	76579 .....	3094 .....	1,1,1,51
	Farm occupations, except managerial (477-484) .....	76594 .....	3109 .....	1,1,1,52
	Related agricultural occupations (485-493) .....	76609 .....	3124 .....	1,1,1,53
	Forestry and logging occupations (494-496) .....	76624 .....	3139 .....	1,1,1,54
	Fishers, hunters, and trappers (497-502) .....	76639 .....	3154 .....	1,1,1,55
	Mechanics and repairers (503-552) .....	76654 .....	3169 .....	1,1,1,56
	Construction trades (553-612) .....	76669 .....	3184 .....	1,1,1,57
	Extractive occupations (613-627) .....	76684 .....	3199 .....	1,1,1,58
	Supervisors, production occupations (628-633) .....	76699 .....	3214 .....	1,1,1,59
	Precision metal working occupations (634-655) .....	76714 .....	3229 .....	1,1,1,60
	Precision woodworking occupations (656-665) .....	76729 .....	3244 .....	1,1,1,61

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB45.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY OCCUPATION(81) [486]—Con.			
	Precision textile, apparel, and furnishings machine workers (688-674) .....	76744.....	3259 .....	1,1,1,52
	Precision workers, assorted materials (675-685) .....	76759.....	3274 .....	1,1,1,53
	Precision food production occupations (686-688) .....	76774.....	3289 .....	1,1,1,54
	Precision inspectors, testers, and related workers (689-693) .....	76789.....	3304 .....	1,1,1,55
	Plant and system operators (694-702) .....	76804.....	3319 .....	1,1,1,56
	Metal working and plastic working machine operators (703-716) .....	76819.....	3334 .....	1,1,1,57
	Fabricating machine operators, n.e.c. (717-718) .....	76834.....	3349 .....	1,1,1,58
	Metal and plastic processing machine operators (719-725) .....	76849.....	3364 .....	1,1,1,59
	Woodworking machine operators (726-733) .....	76864.....	3379 .....	1,1,1,70
	Printing machine operators (734-737) .....	76879.....	3394 .....	1,1,1,71
	Textile, apparel, and furnishings machine operators (738-752) .....	76894.....	3409 .....	1,1,1,72
	Machine operators, assorted materials (753-782) .....	76909.....	3424 .....	1,1,1,73
	Fabricators, assemblers, and hand working occupations (783-795) .....	76924.....	3439 .....	1,1,1,74
	Production inspectors, testers, samplers, and weighers (796-802) .....	76939.....	3454 .....	1,1,1,75
	Motor vehicle operators (803-822) .....	76954.....	3469 .....	1,1,1,76
	Rail transportation occupations (823-827) .....	76969.....	3484 .....	1,1,1,77
	Water transportation occupations (828-842) .....	76984.....	3499 .....	1,1,1,78
	Material moving equipment operators (843-863) .....	76999.....	3514 .....	1,1,1,79
	Handlers, equipment cleaners, helpers, and laborers (864-902) .....	77014.....	3529 .....	1,1,1,80
	Unemployed, last occupation military (903-908) .....	77029.....	3544 .....	1,1,1,81
	Female:			
	(Repeat OCCUPATION) .....	77044.....	3559 .....	1,1,2,1
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks:			
	(Repeat SEX By OCCUPATION) .....	78259.....	4774 .....	1,2,1,1
	Worked in 1989, usually worked 1 to 34 hours per week:			
	(Repeat SEX By OCCUPATION) .....	80689.....	7204 .....	1,3,1,1
	Filler .....	81649.....	8164 .....	
	End of Segment			
	Worked in 1989, usually worked 1 to 34 hours per week:			
	(Repeat SEX By OCCUPATION)—Con. ....	81951.....	301 .....	1,3,1,65
PB46.	SEX(2) BY WORK STATUS IN 1989(3) BY INDUSTRY(17) [102] Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989			
	Male:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Agriculture, forestry, and fisheries (000-039) .....	83421.....	1771 .....	1,1,1
	Mining (040-059) .....	83430.....	1780 .....	1,1,2
	Construction (060-099) .....	83439.....	1789 .....	1,1,3
	Manufacturing, nondurable goods (100-229) .....	83448.....	1798 .....	1,1,4
	Manufacturing, durable goods (230-399) .....	83457.....	1807 .....	1,1,5
	Transportation (400-439) .....	83466.....	1816 .....	1,1,6
	Communications and other public utilities (440-499) .....	83475.....	1825 .....	1,1,7

**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB46.	SEX(2) BY WORK STATUS IN 1989(3) BY INDUSTRY(17) [102]—Con.			
	Wholesale trade (500-579) .....	83484 .....	1834 .....	1,1,8
	Retail trade (580-699) .....	83493 .....	1843 .....	1,1,9
	Finance, insurance, and real estate (700-720) .....	83502 .....	1852 .....	1,1,10
	Business and repair services (721-760) .....	83511 .....	1861 .....	1,1,11
	Personal services (761-799) .....	83520 .....	1870 .....	1,1,12
	Entertainment and recreation services (800-811) .....	83529 .....	1879 .....	1,1,13
	Professional and related services, health services (812-840) .....	83538 .....	1888 .....	1,1,14
	Professional and related services, educational services (842-860) .....	83547 .....	1897 .....	1,1,15
	Other professional and related services (861, 861-899) .....	83556 .....	1906 .....	1,1,16
	Public administration (900-939) .....	83565 .....	1915 .....	1,1,17
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat INDUSTRY) .....	83574 .....	1924 .....	1,2,1
	Worked in 1989, usually worked 1 to 34 hours per week: (Repeat INDUSTRY) .....	83727 .....	2077 .....	1,3,1
	Female: (Repeat WORK STATUS IN 1989 By INDUSTRY) .....	83880 .....	2230 .....	2,1,1
PB47.	FILLER .....	84339 .....	2689	
PB48.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY INDUSTRY(17) [102] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Agriculture, forestry, and fisheries (000-039) .....	85257 .....	3607 .....	1,1,1,1
	Mining (040-069) .....	85272 .....	3622 .....	1,1,1,2
	Construction (060-099) .....	85287 .....	3637 .....	1,1,1,3
	Manufacturing, nondurable goods (100-229) .....	85302 .....	3652 .....	1,1,1,4
	Manufacturing, durable goods (230-399) .....	85317 .....	3667 .....	1,1,1,5
	Transportation (400-439) .....	85332 .....	3682 .....	1,1,1,6
	Communications and other public utilities (440-499) .....	85347 .....	3697 .....	1,1,1,7
	Wholesale trade (500-579) .....	85362 .....	3712 .....	1,1,1,8
	Retail trade (580-699) .....	85377 .....	3727 .....	1,1,1,9
	Finance, insurance, and real estate (700-720) .....	85392 .....	3742 .....	1,1,1,10
	Business and repair services (721-760) .....	85407 .....	3757 .....	1,1,1,11
	Personal services (761-799) .....	85422 .....	3772 .....	1,1,1,12
	Entertainment and recreation services (800-811) .....	85437 .....	3787 .....	1,1,1,13
	Professional and related services, health services (812-840) .....	85452 .....	3802 .....	1,1,1,14
	Professional and related services, educational services (842-860) .....	85467 .....	3817 .....	1,1,1,15
	Other professional and related services (861, 861-899) .....	85482 .....	3832 .....	1,1,1,16
	Public administration (900-939) .....	85497 .....	3847 .....	1,1,1,17
	Female: (Repeat INDUSTRY) .....	85512 .....	3862 .....	1,1,2,1
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By INDUSTRY) .....	85767 .....	4117 .....	1,2,1,1
	Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By INDUSTRY) .....	86277 .....	4627 .....	1,3,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB49.	SEX(2) BY WORK STATUS IN 1989(3) BY CLASS OF WORKER(7) [42] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Private for profit wage and salary workers..... Private not-for-profit wage and salary workers..... Local government workers..... State government workers..... Federal government workers..... Self-employed workers..... Unpaid family workers..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat CLASS OF WORKER)..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat CLASS OF WORKER)..... Female: (Repeat WORK STATUS IN 1989 By CLASS OF WORKER).....	86787..... 86796..... 86805..... 86814..... 86823..... 86832..... 86841..... 86850..... 86813..... 86976.....	5137..... 5146..... 5155..... 5164..... 5173..... 5182..... 5191..... 5200..... 5263..... 5326.....	1,1,1 1,1,2 1,1,3 1,1,4 1,1,5 1,1,6 1,1,7 1,2,1 1,3,1 2,1,1
PB50.	FILLER.....	87166.....	5515	
PB51.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY CLASS OF WORKER(7) [42] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Private for profit wage and salary workers..... Private not-for-profit wage and salary workers..... Local government workers..... State government workers..... Federal government workers..... Self-employed workers..... Unpaid family workers..... Female: (Repeat CLASS OF WORKER)..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By CLASS OF WORKER)..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By CLASS OF WORKER).....	87543..... 87558..... 87573..... 87588..... 87603..... 87618..... 87633..... 87648..... 87753..... 87963.....	5893..... 5908..... 5923..... 5938..... 5953..... 5968..... 5983..... 5998..... 6103..... 6313.....	1,1,1,1 1,1,1,2 1,1,1,3 1,1,1,4 1,1,1,5 1,1,1,6 1,1,1,7 1,1,2,1 1,2,1,1 1,3,1,1
PB52.	SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81) [486] <i>Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Executive and administrative occupations, excluding management related occupations (000-022)..... Management related occupations (023-042)..... Engineers, architects, and surveyors (043-063)..... Mathematical and computer scientists (064-068)..... Natural scientists (069-083)..... Physicians (084).....	88173..... 88182..... 88191..... 88200..... 88209..... 88216.....	6523..... 6532..... 6541..... 6550..... 6559..... 6568.....	1,1,1 1,1,2 1,1,3 1,1,4 1,1,5 1,1,6

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB52.	SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81) [496]—Con.			
	Dentists (085).....	88227.....	6577.....	1,1,7
	Other health diagnosing occupations (086-094).....	88236.....	6586.....	1,1,8
	Registered nurses (095).....	88245.....	6595.....	1,1,9
	Pharmacists (096).....	88254.....	6604.....	1,1,10
	Other health assessment and treating occupations (097-112).....	88263.....	6613.....	1,1,11
	Teachers, postsecondary (113-154).....	88272.....	6622.....	1,1,12
	Teachers, except postsecondary (155-162).....	88281.....	6631.....	1,1,13
	Counselors, educational and vocational (163).....	88290.....	6640.....	1,1,14
	Librarians, archivists, and curators (164-165).....	88299.....	6649.....	1,1,15
	Social scientists and urban planners (166-173).....	88308.....	6658.....	1,1,16
	Social, recreation, and religious workers (174-177).....	88317.....	6667.....	1,1,17
	Lawyers and judges (178-182).....	88326.....	6676.....	1,1,18
	Writers, artists, entertainers, and athletes (183-202).....	88335.....	6685.....	1,1,19
	Health technologists and technicians (203-212).....	88344.....	6694.....	1,1,20
	Engineering and related technologists and technicians (213-222).....	88353.....	6703.....	1,1,21
	Science technicians (223-225).....	88362.....	6712.....	1,1,22
	Computer programmers (229-232).....	88371.....	6721.....	1,1,23
	Other technicians, except health, engineering, and science(228-228, 233-242).....	88380.....	6730.....	1,1,24
	Supervisors and proprietors, sales occupations (243-252).....	88389.....	6739.....	1,1,25
	Sales representatives, finance and business services (253-257).....	88398.....	6748.....	1,1,26
	Sales representatives, commodities except retail (258-262).....	88407.....	6757.....	1,1,27
	Sales workers, retail and personal services (263-282).....	88416.....	6766.....	1,1,28
	Sales related occupations (283-302).....	88425.....	6775.....	1,1,29
	Supervisors, administrative support occupations (303-307).....	88434.....	6784.....	1,1,30
	Computer equipment operators (308-312).....	88443.....	6793.....	1,1,31
	Secretaries, stenographers, and typists (313-315).....	88452.....	6802.....	1,1,32
	Information clerks (316-324).....	88461.....	6811.....	1,1,33
	Records processing occupations, except financial (325-336).....	88470.....	6820.....	1,1,34
	Financial records processing occupations (337-344).....	88479.....	6829.....	1,1,35
	Duplicating, mail and other office machine operators (345-347).....	88488.....	6838.....	1,1,36
	Communications equipment operators (348-353).....	88497.....	6847.....	1,1,37
	Mail and message distributing occupations (354-358).....	88506.....	6856.....	1,1,38
	Material recording, scheduling, and distributing clerks (359-374).....	88515.....	6865.....	1,1,39
	Adjusters and investigators (375-378).....	88524.....	6874.....	1,1,40
	Miscellaneous administrative support occupations (379-402).....	88533.....	6883.....	1,1,41
	Private household occupations (403-412).....	88542.....	6892.....	1,1,42
	Supervisors, protective service occupations (413-415).....	88551.....	6901.....	1,1,43
	Firefighting and fire prevention occupations (416-417).....	88560.....	6910.....	1,1,44
	Police and detectives (418-424).....	88569.....	6919.....	1,1,45
	Guards (425-432).....	88578.....	6928.....	1,1,46
	Food preparation and service occupations (433-444).....	88587.....	6937.....	1,1,47
	Health service occupations (445-447).....	88596.....	6946.....	1,1,48



**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB52.	SEX(2) BY WORK STATUS IN 1989(3) BY OCCUPATION(81) [486]—Con.			
	Cleaning and building service occupations, except household (448-455).....	88605.....	6955.....	1,1,49
	Personal service occupations (456-472).....	88614.....	6964.....	1,1,50
	Farm operators and managers (473-476).....	88623.....	6973.....	1,1,51
	Farm occupations, except managerial (477-484).....	88632.....	6982.....	1,1,52
	Related agricultural occupations (485-493).....	88641.....	6991.....	1,1,53
	Forestry and logging occupations (494-496).....	88650.....	7000.....	1,1,54
	Fishers, hunters, and trappers (497-502).....	88659.....	7009.....	1,1,55
	Mechanics and repairers (503-552).....	88668.....	7018.....	1,1,56
	Construction trades (553-612).....	88677.....	7027.....	1,1,57
	Extractive occupations (613-627).....	88686.....	7036.....	1,1,58
	Supervisors, production occupations (628-633).....	88695.....	7045.....	1,1,59
	Precision metal working occupations (634-655).....	88704.....	7054.....	1,1,60
	Precision woodworking occupations (656-665).....	88713.....	7063.....	1,1,61
	Precision textile, apparel, and furnishings machine workers (666-674).....	88722.....	7072.....	1,1,62
	Precision workers, assorted materials (675-685).....	88731.....	7081.....	1,1,63
	Precision food production occupations (686-688).....	88740.....	7090.....	1,1,64
	Precision inspectors, testers, and related workers (689-693).....	88749.....	7099.....	1,1,65
	Plant and system operators (694-702).....	88758.....	7108.....	1,1,66
	Metal working and plastic working machine operators (703-716).....	88767.....	7117.....	1,1,67
	Fabricating machine operators, n.e.c. (717-718).....	88776.....	7126.....	1,1,68
	Metal and plastic processing machine operators (719-725).....	88785.....	7135.....	1,1,69
	Woodworking machine operators (726-733).....	88794.....	7144.....	1,1,70
	Printing machine operators (734-737).....	88803.....	7153.....	1,1,71
	Textile, apparel, and furnishings machine operators (738-752).....	88812.....	7162.....	1,1,72
	Machine operators, assorted materials (753-782).....	88821.....	7171.....	1,1,73
	Fabricators, assemblers, and hand working occupations (783-795).....	88830.....	7180.....	1,1,74
	Production inspectors, testers, samplers, and weighers (796-802).....	88839.....	7189.....	1,1,75
	Motor vehicle operators (803-822).....	88848.....	7198.....	1,1,76
	Rail transportation occupations (823-827).....	88857.....	7207.....	1,1,77
	Water transportation occupations (828-842).....	88866.....	7216.....	1,1,78
	Material moving equipment operators (843-863).....	88875.....	7225.....	1,1,79
	Handlers, equipment cleaners, helpers, and laborers (864-902).....	88884.....	7234.....	1,1,80
	Unemployed, last occupation military (903-908).....	88893.....	7243.....	1,1,81
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat OCCUPATION).....	88902.....	7252.....	1,2,1
	Worked in 1989, usually worked 1 to 34 hours per week: (Repeat OCCUPATION).....	89631.....	7981.....	1,3,1
	Filler.....	89811.....	8161.....	
	End of Segment			
	Worked in 1989, usually worked 1 to 34 hours per week: (Repeat OCCUPATION)—Con.....	90116.....	301.....	1,3,21
	Female: (Repeat WORK STATUS IN 1989 By OCCUPATION).....	90665.....	850.....	2,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB53.	FILLER .....	92852 .....	3037	
PB54.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY OCCUPATION(81) [486] <i>Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Executive and administrative occupations, excluding management related occupations (000-022) .....	97226 .....	7411 .....	1,1,1,1
	Management related occupations (023-042) .....	97241 .....	7426 .....	1,1,1,2
	Engineers, architects, and surveyors (043-063) .....	97258 .....	7441 .....	1,1,1,3
	Mathematical and computer scientists (064-068) .....	97271 .....	7456 .....	1,1,1,4
	Natural scientists (069-083) .....	97286 .....	7471 .....	1,1,1,5
	Physicians (084) .....	97301 .....	7486 .....	1,1,1,6
	Dentists (085) .....	97316 .....	7501 .....	1,1,1,7
	Other health diagnosing occupations (086-094) .....	97331 .....	7516 .....	1,1,1,8
	Registered nurses (095) .....	97346 .....	7531 .....	1,1,1,9
	Pharmacists (096) .....	97361 .....	7546 .....	1,1,1,10
	Other health assessment and treating occupations (097-112) .....	97376 .....	7561 .....	1,1,1,11
	Teachers, postsecondary (113-154) .....	97391 .....	7576 .....	1,1,1,12
	Teachers, except postsecondary (155-162) .....	97406 .....	7591 .....	1,1,1,13
	Counselors, educational and vocational (163) .....	97421 .....	7606 .....	1,1,1,14
	Librarians, archivists, and curators (164-165) .....	97436 .....	7621 .....	1,1,1,15
	Social scientists and urban planners (166-173) .....	97451 .....	7636 .....	1,1,1,16
	Social, recreation, and religious workers (174-177) .....	97466 .....	7651 .....	1,1,1,17
	Lawyers and judges (178-182) .....	97481 .....	7666 .....	1,1,1,18
	Writers, artists, entertainers, and athletes (183-202) .....	97496 .....	7681 .....	1,1,1,19
	Health technologists and technicians (203-212) .....	97511 .....	7696 .....	1,1,1,20
	Engineering and related technologists and technicians (213-222) .....	97526 .....	7711 .....	1,1,1,21
	Science technicians (223-225) .....	97541 .....	7726 .....	1,1,1,22
	Computer programmers (229-232) .....	97556 .....	7741 .....	1,1,1,23
	Other technicians, except health, engineering, and science (226-228, 233-242) .....	97571 .....	7756 .....	1,1,1,24
	Supervisors and proprietors, sales occupations (243-252) .....	97586 .....	7771 .....	1,1,1,25
	Sales representatives, finance and business services (253-257) .....	97601 .....	7786 .....	1,1,1,26
	Sales representatives, commodities except retail (258-262) .....	97616 .....	7801 .....	1,1,1,27
	Sales workers, retail and personal services (263-282) .....	97631 .....	7816 .....	1,1,1,28
	Sales related occupations (283-302) .....	97646 .....	7831 .....	1,1,1,29
	Supervisors, administrative support occupations (303-307) .....	97661 .....	7846 .....	1,1,1,30
	Computer equipment operators (308-312) .....	97676 .....	7861 .....	1,1,1,31
	Secretaries, stenographers, and typists (313-315) .....	97691 .....	7876 .....	1,1,1,32
	Information clerks (316-324) .....	97706 .....	7891 .....	1,1,1,33
	Records processing occupations, except financial (325-336) .....	97721 .....	7906 .....	1,1,1,34
	Financial records processing occupations (337-344) .....	97736 .....	7921 .....	1,1,1,35

**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB54.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY OCCUPATION(81) [486]—Con.			
	Duplicating, mail and other office machine operators (345-347).....	97751.....	7936.....	1,1,1,36
	Communications equipment operators (348-353).....	97766.....	7951.....	1,1,1,37
	Mail and message distributing occupations (354-358).....	97781.....	7966.....	1,1,1,38
	Material recording, scheduling, and distributing clerks (359-374).....	97796.....	7981.....	1,1,1,39
	Adjusters and investigators (375-378).....	97811.....	7996.....	1,1,1,40
	Miscellaneous administrative support occupations (379-402).....	97826.....	8011.....	1,1,1,41
	Private household occupations (403-412).....	97841.....	8026.....	1,1,1,42
	Supervisors, protective service occupations (413-415).....	97856.....	8041.....	1,1,1,43
	Firefighting and fire prevention occupations (416-417).....	97871.....	8056.....	1,1,1,44
	Police and detectives (418-424).....	97886.....	8071.....	1,1,1,45
	Guards (425-432).....	97901.....	8086.....	1,1,1,46
	Food preparation and service occupations (433-444).....	97916.....	8101.....	1,1,1,47
	Health service occupations (445-447).....	97931.....	8116.....	1,1,1,48
	Cleaning and building service occupations, except household (448-455).....	97946.....	8131.....	1,1,1,49
	Personal service occupations (456-472).....	97961.....	8146.....	1,1,1,50
	Filler.....	97976.....	8161.....	
	End of Segment			
	Farm operators and managers (473-476).....	98281.....	301.....	1,1,1,51
	Farm occupations, except managerial (477-484).....	98296.....	316.....	1,1,1,52
	Related agricultural occupations (485-489).....	98311.....	331.....	1,1,1,53
	Forestry and logging occupations (494-498).....	98326.....	346.....	1,1,1,54
	Fishers, hunters, and trappers (497-502).....	98341.....	361.....	1,1,1,55
	Mechanics and repairers (503-552).....	98356.....	376.....	1,1,1,56
	Construction trades (553-612).....	98371.....	391.....	1,1,1,57
	Extractive occupations (613-627).....	98386.....	406.....	1,1,1,58
	Supervisors, production occupations (628-633).....	98401.....	421.....	1,1,1,59
	Precision metal working occupations (634-655).....	98416.....	436.....	1,1,1,60
	Precision woodworking occupations (656-665).....	98431.....	451.....	1,1,1,61
	Precision textile, apparel, and furnishings machine workers (666-674).....	98446.....	466.....	1,1,1,62
	Precision workers, assorted materials (675-685).....	98461.....	481.....	1,1,1,63
	Precision food production occupations (686-688).....	98476.....	496.....	1,1,1,64
	Precision inspectors, testers, and related workers (689-693).....	98491.....	511.....	1,1,1,65
	Plant and system operators (694-702).....	98506.....	526.....	1,1,1,66
	Metal working and plastic working machine operators (703-716).....	98521.....	541.....	1,1,1,67
	Fabricating machine operators, n.e.c. (717-718).....	98536.....	556.....	1,1,1,68
	Metal and plastic processing machine operators (719-725).....	98551.....	571.....	1,1,1,69
	Woodworking machine operators (726-733).....	98566.....	586.....	1,1,1,70
	Printing machine operators (734-737).....	98581.....	601.....	1,1,1,71
	Textile, apparel, and furnishings machine operators (738-752).....	98596.....	616.....	1,1,1,72
	Machine operators, assorted materials (753-782).....	98611.....	631.....	1,1,1,73

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB54.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY OCCUPATION(81) [486]—Con.			
	Fabricators, assemblers, and hand working occupations (783-795) .....	98628 .....	646 .....	1,1,1,74
	Production inspectors, testers, samplers, and weighers (796-802) .....	98641 .....	661 .....	1,1,1,75
	Motor vehicle operators (803-822) .....	98656 .....	676 .....	1,1,1,76
	Rail transportation occupations (823-827) .....	98671 .....	691 .....	1,1,1,77
	Water transportation occupations (828-842) .....	98686 .....	706 .....	1,1,1,78
	Material moving equipment operators (843-863) .....	98701 .....	721 .....	1,1,1,79
	Handlers, equipment cleaners, helpers, and laborers (864-902) .....	98716 .....	736 .....	1,1,1,80
	Unemployed, last occupation military (903-908) .....	98731 .....	751 .....	1,1,1,81
	Female:			
	(Repeat OCCUPATION) .....	98746 .....	766 .....	1,1,2,1
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks:			
	(Repeat SEX By OCCUPATION) .....	99951 .....	1981 .....	1,2,1,1
	Worked in 1989, usually worked 1 to 34 hours per week:			
	(Repeat SEX By OCCUPATION) .....	102391 .....	4411 .....	1,3,1,1
PB55.	SEX(2) BY WORK STATUS IN 1989(3) BY INDUSTRY(17) [102] <i>Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989</i>			
	Male:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Agriculture, forestry, and fisheries (000-039) .....	104821 .....	6841 .....	1,1,1
	Mining (040-059) .....	104830 .....	6850 .....	1,1,2
	Construction (060-099) .....	104839 .....	6859 .....	1,1,3
	Manufacturing, nondurable goods (100-229) .....	104848 .....	6868 .....	1,1,4
	Manufacturing, durable goods (230-399) .....	104857 .....	6877 .....	1,1,5
	Transportation (400-439) .....	104866 .....	6886 .....	1,1,6
	Communications and other public utilities (440-499) .....	104875 .....	6895 .....	1,1,7
	Wholesale trade (500-579) .....	104884 .....	6904 .....	1,1,8
	Retail trade (580-699) .....	104893 .....	6913 .....	1,1,9
	Finance, insurance, and real estate (700-720) .....	104902 .....	6922 .....	1,1,10
	Business and repair services (721-760) .....	104911 .....	6931 .....	1,1,11
	Personal services (761-799) .....	104920 .....	6940 .....	1,1,12
	Entertainment and recreation services (800-811) .....	104929 .....	6949 .....	1,1,13
	Professional and related services, health services (812-840) .....	104938 .....	6958 .....	1,1,14
	Professional and related services, educational services (842-860) .....	104947 .....	6967 .....	1,1,15
	Other professional and related services (841, 861-899) .....	104956 .....	6976 .....	1,1,16
	Public administration (900-939) .....	104965 .....	6985 .....	1,1,17
	Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks:			
	(Repeat INDUSTRY) .....	104974 .....	6994 .....	1,2,1
	Worked in 1989, usually worked 1 to 34 hours per week:			
	(Repeat INDUSTRY) .....	105127 .....	7147 .....	1,3,1
	Female:			
	(Repeat WORK STATUS IN 1989 By INDUSTRY) .....	105280 .....	7300 .....	2,1,1
PB56.	FILLER .....	105739 .....	7758	

**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB57.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY INDUSTRY(17) [102] <i>Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Agriculture, forestry, and fisheries (000-039) ..... Mining (040-059) ..... Construction (060-099) ..... Manufacturing, nondurable goods (100-229) ..... Manufacturing, durable goods (230-399) ..... Transportation (400-439) ..... Communications and other public utilities (440-499) ..... Wholesale trade (500-579) ..... Retail trade (580-699) ..... Finance, insurance, and real estate (700-720) ..... Business and repair services (721-760) ..... Personal services (761-799) ..... Entertainment and recreation services (800-811) ..... Professional and related services, health services (812-840) ..... Professional and related services, educational services (842-860) ..... Other professional and related services (861-899) ..... Public administration (900-939) ..... Female: (Repeat INDUSTRY) ..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By INDUSTRY) ..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By INDUSTRY) .....	108959..... 108974..... 108989..... 107004..... 107019..... 107034..... 107049..... 107064..... 107079..... 107094..... 107109..... 107124..... 107139..... 107154..... 107169..... 107184..... 107199..... 107214..... 107469..... 107979.....	814..... 829..... 844..... 859..... 874..... 889..... 904..... 919..... 934..... 949..... 964..... 979..... 994..... 1009..... 1024..... 1039..... 1054..... 1069..... 1324..... 1834.....	1,1,1,1 1,1,1,2 1,1,1,3 1,1,1,4 1,1,1,5 1,1,1,6 1,1,1,7 1,1,1,8 1,1,1,9 1,1,1,10 1,1,1,11 1,1,1,12 1,1,1,13 1,1,1,14 1,1,1,15 1,1,1,16 1,1,1,17 1,1,2,1 1,2,1,1 1,3,1,1
PB58.	SEX(2) BY WORK STATUS IN 1989(3) BY CLASS OF WORKER(7) [42] <i>Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Private for-profit wage and salary workers..... Private not-for-profit wage and salary workers..... Local government workers..... State government workers..... Federal government workers..... Self-employed workers..... Unpaid family workers..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat CLASS OF WORKER) ..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat CLASS OF WORKER) ..... Female: (Repeat WORK STATUS IN 1989 By CLASS OF WORKER) .....	108489..... 108498..... 108507..... 108516..... 108525..... 108534..... 108543..... 108552..... 108516..... 108678.....	2344..... 2353..... 2362..... 2371..... 2380..... 2389..... 2398..... 2407..... 2470..... 2533.....	1,1,1 1,1,2 1,1,3 1,1,4 1,1,5 1,1,6 1,1,7 1,2,1 1,3,1 2,1,1
PB59.	FILLER .....	108867.....	2722	

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB60.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY CLASS OF WORKER(7) [42] <i>Universe: Civilian noninstitutionalized persons 35 to 54 years who worked in 1989</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Private for profit wage and salary workers ..... Private not-for-profit wage and salary workers..... Local government workers..... State government workers..... Federal government workers..... Self-employed workers..... Unpaid family workers..... Female: (Repeat CLASS OF WORKER)..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX By CLASS OF WORKER) ..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX By CLASS OF WORKER) .....	109245..... 109260..... 109275..... 109290..... 109305..... 109320..... 109335..... 109350..... 109455..... 109565.....	3100..... 3115..... 3130..... 3145..... 3160..... 3175..... 3190..... 3205..... 3310..... 3520.....	1,1,1,1 1,1,1,2 1,1,1,3 1,1,1,4 1,1,1,5 1,1,1,6 1,1,1,7 1,1,2,1 1,2,1,1 1,3,1,1
PB61.	SEX(2) BY WORK STATUS IN 1989(3) BY MEANS OF TRANSPORTATION TO WORK(13) [78] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989 and who worked during reference week</i> Male: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Car, truck, or van: Drove alone..... Carpooled..... Public transportation: Bus or trolley bus..... Streetcar or trolley car..... Subway or elevated..... Railroad..... Ferryboat..... Taxicab..... Motorcycle..... Bicycle..... Walked..... Other means..... Worked at home..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat MEANS OF TRANSPORTATION TO WORK) ..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat MEANS OF TRANSPORTATION TO WORK) .....	109875..... 109884..... 109893..... 109902..... 109911..... 109920..... 109929..... 109938..... 109947..... 109956..... 109965..... 109974..... 109983..... 109992..... 110109.....	3730..... 3739..... 3748..... 3757..... 3766..... 3775..... 3784..... 3793..... 3802..... 3811..... 3820..... 3829..... 3838..... 3847..... 3964.....	1,1,1 1,1,2 1,1,3 1,1,4 1,1,5 1,1,6 1,1,7 1,1,8 1,1,9 1,1,10 1,1,11 1,1,12 1,1,13 1,2,1 1,3,1
	Female: (Repeat WORK STATUS IN 1989 By MEANS OF TRANSPORTATION TO WORK).....	110226.....	4081.....	2,1,1
PB62.	FILLER .....	110577.....	4432	

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB63.	AGGREGATE EARNINGS IN 1989(1) BY WORK STATUS IN 1989(3) BY SEX(2) BY MEANS OF TRANSPORTATION TO WORK(13) [78] <i>Universe: Civilian noninstitutionalized persons 16 to 64 years who worked in 1989 and who worked during reference week</i> Total: Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks: Male: Car, truck, or van: Drove alone..... Carpooled..... Public transportation: Bus or trolley bus..... Streetcar or trolley car..... Subway or elevated..... Railroad..... Ferryboat..... Taxicab..... Motorcycle..... Bicycle..... Walked..... Other means..... Worked at home..... Female: (Repeat MEANS OF TRANSPORTATION TO WORK)..... Worked in 1989, usually worked 35 or more hours per week, 1 to 49 weeks: (Repeat SEX BY MEANS OF TRANSPORTATION TO WORK)..... Worked in 1989, usually worked 1 to 34 hours per week: (Repeat SEX BY MEANS OF TRANSPORTATION TO WORK).....	111279..... 111294.....  111309..... 111324..... 111339..... 111354..... 111369..... 111384..... 111399..... 111414..... 111429..... 111444..... 111459.....  111474.....  111669..... 112059.....	5134..... 5149.....  5164..... 5179..... 5194..... 5209..... 5224..... 5239..... 5254..... 5269..... 5284..... 5299..... 5314.....  5329.....  5524..... 5914.....	1,1,1,1 1,1,1,2  1,1,1,3 1,1,1,4 1,1,1,5 1,1,1,6 1,1,1,7 1,1,1,8 1,1,1,9 1,1,1,10 1,1,1,11 1,1,1,12 1,1,1,13  1,1,2,1  1,2,1,1 1,3,1,1
PB64.	SEX(2) BY AGE(7) BY RECEIPT OF WAGE AND SALARY INCOME IN 1989(2) [28] <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With wage or salary income..... No wage or salary income..... 25 to 34 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989)..... 35 to 44 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989)..... 45 to 54 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989)..... 55 to 64 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989)..... 65 to 74 years: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989)..... 75 years and over: (Repeat RECEIPT OF WAGE AND SALARY INCOME IN 1989).....	112449..... 112458.....  112467.....  112485..... 112503..... 112521..... 112539..... 112557.....	6304..... 6313.....  6322.....  6340..... 6358..... 6376..... 6394..... 6412.....	1,1,1 1,1,2  1,2,1  1,3,1 1,4,1 1,5,1 1,6,1 1,7,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB64.	SEX(2) BY AGE(7) BY RECEIPT OF WAGE AND SALARY INCOME IN 1989(2) [28]—Con. Female: (Repeat AGE By RECEIPT OF WAGE AND SALARY INCOME IN 1989) .....	112575 .....	6430 .....	2,1,1
PB65.	SEX(2) BY AGE(7) BY RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989(2) [28] Universe: Civilian noninstitutionalized persons 16 years and over Male: 16 to 24 years: With nonfarm self-employment income..... No nonfarm self-employment income..... 25 to 34 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989)..... 35 to 44 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989)..... 45 to 54 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989)..... 55 to 64 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989)..... 65 to 74 years: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989)..... 75 years and over: (Repeat RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989)..... Female: (Repeat AGE By RECEIPT OF NONFARM SELF-EMPLOYMENT INCOME IN 1989).....	112701 .....	8556 .....	1,1,1
		112710 .....	8565 .....	1,1,2
		112719 .....	6574 .....	1,2,1
		112737 .....	6592 .....	1,3,1
		112755 .....	6610 .....	1,4,1
		112773 .....	6628 .....	1,5,1
		112791 .....	6646 .....	1,6,1
		112809 .....	6664 .....	1,7,1
		112827 .....	6682 .....	2,1,1
PB66.	SEX(2) BY AGE(7) BY RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989(2) [28] Universe: Civilian noninstitutionalized persons 16 years and over Male: 16 to 24 years: With farm self-employment income..... No farm self-employment income..... 25 to 34 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989)..... 35 to 44 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989)..... 45 to 54 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989)..... 55 to 64 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989)..... 65 to 74 years: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989)..... 75 years and over: (Repeat RECEIPT OF FARM SELF-EMPLOYMENT INCOME IN 1989).....	112953 .....	6808 .....	1,1,1
		112962 .....	6817 .....	1,1,2
		112971 .....	6826 .....	1,2,1
		112989 .....	6844 .....	1,3,1
		113007 .....	6862 .....	1,4,1
		113025 .....	6880 .....	1,5,1
		113043 .....	6898 .....	1,6,1
		113061 .....	6916 .....	1,7,1



TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB66.	SEX(2) BY AGE(7) BY RECEIPT OF FARM SELF- EMPLOYMENT INCOME IN 1989(2) [28]—Con. Female: (Repeat AGE By RECEIPT OF FARM SELF- EMPLOYMENT INCOME IN 1989) .....	113079.....	6934.....	2,1,1
PB67.	SEX(2) BY AGE(7) BY RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989(2) [28] <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With interest, dividend, or net rental income .....	113205.....	7060.....	1,1,1
	No interest, dividend, or net rental income.....	113214.....	7069.....	1,1,2
	25 to 34 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) .....	113223.....	7078.....	1,2,1
	35 to 44 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) .....	113241.....	7096.....	1,3,1
	45 to 54 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) .....	113259.....	7114.....	1,4,1
	55 to 64 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) .....	113277.....	7132.....	1,5,1
	65 to 74 years: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) .....	113295.....	7150.....	1,6,1
	75 years and over: (Repeat RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) .....	113313.....	7168.....	1,7,1
	Female: (Repeat AGE By RECEIPT OF INTEREST, DIVIDEND, OR NET RENTAL INCOME IN 1989) .....	113331.....	7186.....	2,1,1
PB68.	SEX(2) BY AGE(7) BY RECEIPT OF SOCIAL SECURITY INCOME IN 1989(2) [28] <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With Social Security income.....	113457.....	7312.....	1,1,1
	No Social Security income .....	113466.....	7321.....	1,1,2
	25 to 34 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) .....	113475.....	7330.....	1,2,1
	35 to 44 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) .....	113483.....	7348.....	1,3,1
	45 to 54 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) .....	113511.....	7366.....	1,4,1
	55 to 64 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) .....	113529.....	7384.....	1,5,1
	65 to 74 years: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) .....	113547.....	7402.....	1,6,1
	75 years and over: (Repeat RECEIPT OF SOCIAL SECURITY INCOME IN 1989) .....	113565.....	7420.....	1,7,1

**TABLE (MATRIX) SECTION—Con.**

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordi- nates
PB68.	SEX(2) BY AGE(7) BY RECEIPT OF SOCIAL SECURITY INCOME IN 1989(2) [28]—Con. Female: (Repeat AGE By RECEIPT OF SOCIAL SECURITY INCOME IN 1989) .....	113583 .....	7439 .....	2,1,1
PB69.	SEX(2) BY AGE(7) BY RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989(2) [28] <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With public assistance income .....	113709 .....	7564 .....	1,1,1
	No public assistance income .....	113718 .....	7573 .....	1,1,2
	25 to 34 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) .....	113727 .....	7582 .....	1,2,1
	35 to 44 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) .....	113745 .....	7600 .....	1,3,1
	45 to 54 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) .....	113763 .....	7618 .....	1,4,1
	55 to 64 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) .....	113781 .....	7635 .....	1,5,1
	65 to 74 years: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) .....	113799 .....	7654 .....	1,6,1
	75 years and over: (Repeat RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) .....	113817 .....	7672 .....	1,7,1
	Female: (Repeat AGE By RECEIPT OF PUBLIC ASSISTANCE INCOME IN 1989) .....	113835 .....	7690 .....	2,1,1
PB70.	SEX(2) BY AGE(7) BY RECEIPT OF RETIREMENT INCOME IN 1989(2) [28] <i>Universe: Civilian noninstitutionalized persons 16 years and over</i> Male: 16 to 24 years: With retirement income .....	113961 .....	7816 .....	1,1,1
	No retirement income .....	113970 .....	7825 .....	1,1,2
	25 to 34 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) .....	113979 .....	7834 .....	1,2,1
	35 to 44 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) .....	113997 .....	7852 .....	1,3,1
	45 to 54 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) .....	114015 .....	7870 .....	1,4,1
	55 to 64 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) .....	114033 .....	7888 .....	1,5,1
	65 to 74 years: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) .....	114051 .....	7906 .....	1,6,1
	75 years and over: (Repeat RECEIPT OF RETIREMENT INCOME IN 1989) .....	114069 .....	7924 .....	1,7,1
	Female: (Repeat AGE By RECEIPT OF RETIREMENT INCOME IN 1989) .....	114087 .....	7942 .....	2,1,1
	Filler .....	114213 .....	8066 .....	
	End of Record			

# APPENDIX A. Area Classifications

These definitions are for all geographic entities and concepts that the Census Bureau will include in its standard 1990 census data products. Not all entities and concepts are shown in any one 1990 census data product. For a description of geographic areas included in each data product, see appendix F in this documentation.

## CONTENTS

Alaska Native Regional Corporation (ANRC) (See American Indian and Alaska Native Area)	
Alaska Native Village (ANV) (See American Indian and Alaska Native Area)	
Alaska Native Village Statistical Area (See American Indian and Alaska Native Area)	
American Indian and Alaska Native Area	A-1
American Indian Reservation (See American Indian and Alaska Native Area, see County Subdivision)	
American Indian Reservation and Trust Land (See American Indian and Alaska Native Area)	
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## AMERICAN INDIAN AND ALASKA NATIVE AREA

### Alaska Native Regional Corporation (ANRC)

Alaska Native Regional Corporations (ANRC's) are corporate entities established under the Alaska Native Claims Settlement Act of 1972, Public Law 92-203, as amended by Public Law 94-204, to conduct both business and nonprofit affairs of Alaska Natives. Alaska is divided into 12 ANRC's that cover the entire State, except for the Annette Islands Reserve. The boundaries of the 12 ANRC's were established by the Department of the Interior, in cooperation with Alaska Natives. Each ANRC was designed to include, as far as practicable, Alaska Natives with a common heritage and common interests. The ANRC boundaries for the 1990 census were identified by the Bureau of

Land Management. A 13th region was established for Alaska Natives who are not permanent residents and who chose not to enroll in one of the 12 ANRC's; no census products are prepared for the 13th region. ANRC's were first identified for the 1980 census.

Each ANRC is assigned a two-digit census code ranging from 07 through 84. These census codes are assigned in alphabetical order of the ANRC's.

### **Alaska Native Village (ANV) Statistical Area**

Alaska Native villages (ANV's) constitute tribes, bands, clans, groups, villages, communities, or associations in Alaska that are recognized pursuant to the Alaska Native Claims Settlement Act of 1972, Public Law 92-203. Because ANV's do not have legally designated boundaries, the Census Bureau has established Alaska Native village statistical areas (ANVSA's) for statistical purposes. For the 1990 census, the Census Bureau cooperated with officials of the nonprofit corporation within each participating Alaska Native Regional Corporation (ANRC), as well as other knowledgeable officials, to delineate boundaries that encompass the settled area associated with each ANV. ANVSA's are located within ANRC's and do not cross ANRC boundaries. ANVSA's for the 1990 census replace the ANV's that the Census Bureau recognized for the 1980 census.

Each ANVSA is assigned a four-digit census code ranging from 6001 through 8989. Each ANVSA also is assigned a five-digit FIPS code. Both the census and FIPS codes are assigned in alphabetical order of ANVSA's.

### **American Indian Reservation and Trust Land**

**American Indian Reservation**—Federal American Indian reservations are areas with boundaries established by treaty, statute, and/or executive or court order, and recognized by the Federal Government as territory in which American Indian tribes have jurisdiction. State reservations are lands held in trust by State governments for the use and benefit of a given tribe. The reservations and their boundaries were identified for the 1990 census by the Bureau of Indian Affairs (BIA), Department of Interior (for Federal reservations), and State governments (for State reservations). The names of American Indian reservations recognized by State governments, but not by the Federal Government, are followed by "(State)." Areas composed of reservation lands that are administered jointly and/or are claimed by two reservations, as identified by the BIA, are called "joint areas," and are treated as separate American Indian reservations for census purposes.

Federal reservations may cross State boundaries, and Federal and State reservations may cross county, county subdivision, and place boundaries. For reservations that cross State boundaries, only the portion of the

reservations in a given State are shown in the data products for that State; the entire reservations are shown in data products for the United States.

Each American Indian reservation is assigned a four-digit census code ranging from 0001 through 4989. These census codes are assigned in alphabetical order of American Indian reservations nationwide, except that joint areas appear at the end of the code range. Each American Indian reservation also is assigned a five-digit FIPS code; because the FIPS codes are assigned in alphabetical sequence of American Indian reservations within each State, the FIPS code is different in each State for reservations in more than one State.

**Trust Land**—Trust lands are property associated with a particular American Indian reservation or tribe, held in trust by the Federal Government. Trust lands may be held in trust either for a tribe (tribal trust land) or for an individual member of a tribe (individual trust land). Trust lands recognized for the 1990 census comprise all tribal trust lands and inhabited individual trust lands located outside of a reservation boundary. As with other American Indian areas, trust lands may be located in more than one State. Only the trust lands in a given State are shown in the data products for that State; all trust lands associated with a reservation or tribe are shown in data products for the United States. The Census Bureau first reported data for tribal trust lands for the 1980 census.

Trust lands are assigned a four-digit census code and a five-digit FIPS code, the same as that for the reservation with which they are associated. Trust lands not associated with a reservation are presented by tribal name, interspersed alphabetically among the reservations.

### **Tribal Designated Statistical Area (TDSA)**

Tribal designated statistical areas (TDSA's) are areas, delineated outside Oklahoma by federally- and State-recognized tribes without a land base or associated trust lands, to provide statistical areas for which the Census Bureau tabulates data. TDSA's represent areas generally containing the American Indian population over which federally-recognized tribes have jurisdiction and areas in which State tribes provide benefits and services to their members. The names of TDSA's delineated by State-recognized tribes are followed by "(State)." The Census Bureau did not recognize TDSA's before the 1990 census.

Each TDSA is assigned a four-digit census code ranging from 9001 through 9589. The census codes are assigned in alphabetical order of TDSA's nationwide. Each TDSA also is assigned a five-digit FIPS code in alphabetical order within State.

### **Tribal Jurisdiction Statistical Area (TJSA)**

Tribal jurisdiction statistical areas (TJSA's) are areas, delineated by federally-recognized tribes in Oklahoma without a reservation, for which the Census Bureau

tabulates data. TJSA's represent areas generally containing the American Indian population over which one or more tribal governments have jurisdiction; if tribal officials delineated adjacent TJSA's so that they include some duplicate territory, the overlap area is called a "joint use area," which is treated as a separate TJSA for census purposes.

TJSA's replace the "Historic Areas of Oklahoma (excluding urbanized areas)" shown in 1980 census data products. The Historic Areas of Oklahoma comprised the territory located within reservations that had legally established boundaries from 1900 to 1907; these reservations were dissolved during the 2- to 3-year period preceding the statehood of Oklahoma in 1907. The Historic Areas of Oklahoma (excluding urbanized areas) were identified only for the 1980 census.

Each TJSA is assigned a four-digit census code ranging from 5001 through 5989. The census codes are assigned in alphabetical order of TJSA's, except that joint areas appear at the end of the code range. Each TJSA also is assigned a five-digit FIPS code in alphabetical order within Oklahoma.

## AREA MEASUREMENT

Area measurements provide the size, in square kilometers (also in square miles in printed reports), recorded for each geographic entity for which the Census Bureau tabulates data in general-purpose data products (except crews-of-vessels entities and ZIP Codes). (Square kilometers may be divided by 2.59 to convert an area measurement to square miles.) Area was calculated from the specific set of boundaries recorded for the entity in the Census Bureau's geographic data base (see "TIGER"). On machine-readable files, area measurements are shown to three decimal places; the decimal point is implied. In printed reports and listings, area measurements are shown to one decimal.

The Census Bureau provides measurements for both land area and total water area for the 1990 census; the water figure includes inland, coastal, Great Lakes, and territorial water. (For the 1980 census, the Census Bureau provided area measurements for land and inland water.) The Census Bureau will provide measurements for the component types of water for the affected entities in a separate file. "Inland water" consists of any lake, reservoir, pond, or similar body of water that is recorded in the Census Bureau's geographic data base. It also includes any river, creek, canal, stream, or similar feature that is recorded in that data base as a two-dimensional feature (rather than as a single line). The portions of the oceans and related large embayments (such as the Chesapeake Bay and Puget Sound), the Gulf of Mexico, and the Caribbean Sea that belong to the United States and its territories are considered to be "coastal" and "territorial" waters; the Great Lakes are treated as a separate water entity. Rivers and bays that empty into these bodies of water are treated as "inland water" from the point beyond which they are narrower

than one nautical mile across. Identification of land and inland, coastal, and territorial waters is for statistical purposes, and does not necessarily reflect legal definitions thereof.

By definition, census blocks do not include water within their boundaries; therefore, the water area of a block is always zero. Land area measurements may disagree with the information displayed on census maps and in the TIGER file because, for area measurement purposes, features identified as "intermittent water" and "glacier" are reported as land area. For this reason, it may not be possible to derive the land area for an entity by summing the land area of its component census blocks. In addition, the water area measurement reported for some geographic entities includes water that is not included in any lower-level geographic entity. Therefore, because water is contained only in a higher-level geographic entity, summing the water measurements for all the component lower-level geographic entities will not yield the water area of that higher-level entity. This occurs, for example, where water is associated with a county but is not within the legal boundary of any minor civil division, or the water is associated with a State but is not within the legal boundary of any county. Crews-of-vessels entities (see "Census Tract and Block Numbering Area" and "Block") do not encompass territory and therefore have no area measurements. ZIP Codes do not have specific boundaries, and therefore, also do not have area measurements.

The accuracy of any area measurement figure is limited by the inaccuracy inherent in (1) the location and shape of the various boundary features in the data base, and (2) rounding affecting the last digit in all operations that compute and/or sum the area measurements.

## BLOCK

Census blocks are small areas bounded on all sides by visible features such as streets, roads, streams, and railroad tracks, and by invisible boundaries such as city, town, township, and county limits, property lines, and short, imaginary extensions of streets and roads.

Tabulation blocks, used in census data products, are in most cases the same as collection blocks, used in the census enumeration. In some cases, collection blocks have been "split" into two or more parts required for data tabulations. Tabulation blocks do not cross the boundaries of counties, county subdivisions, places, census tracts or block numbering areas, American Indian and Alaska Native areas, congressional districts, voting districts, urban or rural areas, or urbanized areas. The 1990 census is the first for which the entire United States and its possessions are block-numbered.

Blocks are numbered uniquely within each census tract or BNA. A block is identified by a three-digit number, sometimes with a single alphabetical suffix. Block numbers with suffixes generally represent collection blocks that were "split" in order to identify separate geographic entities that divide the original block. For

example, when a city limit runs through data collection block 101, the data for the portion inside the city is tabulated in block 101A and the portion outside, in block 101B. A block number with the suffix "Z" represents a "crews-of-vessels" entity for which the Census Bureau tabulates data, but that does not represent a true geographic area; such a block is shown on census maps associated with an anchor symbol and a census tract or block numbering area with a .99 suffix.

## **BLOCK GROUP (BG)**

### **Geographic Block Group**

A geographic block group (BG) is a cluster of blocks having the same first digit of their three-digit identifying numbers within a census tract or block numbering area (BNA). For example, BG 3 within a census tract or BNA includes all blocks numbered between 301 and 397. In most cases, the numbering involves substantially fewer than 97 blocks. Geographic BG's never cross census tract or BNA boundaries, but may cross the boundaries of county subdivisions, places, American Indian and Alaska Native areas, urbanized areas, voting districts, and congressional districts. BG's generally contain between 250 and 550 housing units, with the ideal size being 400 housing units.

### **Tabulation Block Group**

In the data tabulations, a geographic BG may be split to present data for every unique combination of county subdivision, place, American Indian and Alaska Native area, urbanized area, voting district, urban/rural and congressional district shown in the data product; for example, if BG 3 is partly in a city and partly outside the city, there will be separate tabulated records for each portion of BG 3. BG's are used in tabulating decennial census data nationwide in the 1990 census, in all block-numbered areas in the 1980 census, and in Tape Address Register (TAR) areas in the 1970 census. For purposes of data presentation, BG's are a substitute for the enumeration districts (ED's) used for reporting data in many parts of the United States for the 1970 and 1980 censuses, and in all areas for pre-1970 censuses.

## **BOUNDARY CHANGES**

The boundaries of some counties, county subdivisions, American Indian and Alaska Native areas, and many incorporated places, changed between those reported for the 1980 census and January 1, 1990. Boundary changes to legal entities result from:

1. Annexations to or detachments from legally established governmental units.
2. Mergers or consolidations of two or more governmental units.

3. Establishment of new governmental units.
4. Disincorporations or disorganizations of existing governmental units.
5. Changes in treaties and Executive Orders.

The historical counts shown for counties, county subdivisions, and places are not updated for such changes, and thus reflect the population and housing units in the area as delineated at each census. Information on boundary changes reported between the 1980 and 1990 censuses for counties, county subdivisions, and incorporated places is presented in the "User Notes" section of the technical documentation of Summary Tape Files 1 and 3, and in the 1990 CPH-2, *Population and Housing Unit Counts* printed reports. For information on boundary changes for such areas in the decade preceding other decennial censuses, see the *Number of Inhabitants* reports for each census. Boundary changes are not reported for some areas, such as census designated places and block groups.

## **CENSUS REGION AND CENSUS DIVISION**

### **Census Division**

Census divisions are groupings of States that are subdivisions of the four census regions. There are nine divisions, which the Census Bureau adopted in 1910 for the presentation of data. The regions, divisions, and their constituent States are:

#### **Northeast Region**

##### *New England Division:*

Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

##### *Middle Atlantic Division:*

New York, New Jersey, Pennsylvania

#### **Midwest Region**

##### *East North Central Division:*

Ohio, Indiana, Illinois, Michigan, Wisconsin

##### *West North Central Division:*

Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

#### **South Region**

##### *South Atlantic Division:*

Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

##### *East South Central Division:*

Kentucky, Tennessee, Alabama, Mississippi

##### *West South Central Division:*

Arkansas, Louisiana, Oklahoma, Texas

## West Region

### *Mountain Division:*

Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

### *Pacific Division:*

Washington, Oregon, California, Alaska, Hawaii

## Census Region

Census regions are groupings of States that subdivide the United States for the presentation of data. There are four regions—Northeast, Midwest, South, and West. Each of the four census regions is divided into two or more census divisions. Prior to 1984, the Midwest region was named the North Central region. From 1910, when census regions were established, through the 1940's, there were three regions—North, South, and West.

## CENSUS TRACT AND BLOCK NUMBERING AREA

### Block Numbering Area (BNA)

Block numbering areas (BNA's) are small statistical subdivisions of a county for grouping and numbering blocks in nonmetropolitan counties where local census statistical areas committees have not established census tracts. State agencies and the Census Bureau delineated BNA's for the 1990 census, using guidelines similar to those for the delineation of census tracts. BNA's do not cross county boundaries.

BNA's are identified by a four-digit basic number and may have a two-digit suffix; for example, 9901.07. The decimal point separating the four-digit basic BNA number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many BNA's do not have a suffix; in such cases, the suffix field is left blank in all data products. BNA numbers range from 9501 through 9989.99, and are unique within a county (numbers in the range of 0001 through 9499.99 denote a census tract). The suffix .99 identifies a BNA that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" BNA appears on census maps only as an anchor symbol with its BNA number (and block numbers on maps showing block numbers); the BNA relates to the ships associated with the onshore BNA's having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify BNA's that either were revised or were created during the 1990 census data collection activities. Some of these revisions produced BNA's that have extremely small land area and may have little or no population or housing. For data analysis, such a BNA can be summarized with an adjacent BNA.

## Census Tract

Census tracts are small, relatively permanent statistical subdivisions of a county. Census tracts are delineated for all metropolitan areas (MA's) and other densely populated counties by local census statistical areas committees following Census Bureau guidelines (more than 3,000 census tracts have been established in 221 counties outside MA's). Six States (California, Connecticut, Delaware, Hawaii, New Jersey, and Rhode Island) and the District of Columbia are covered entirely by census tracts. Census tracts usually have between 2,500 and 8,000 persons and, when first delineated, are designed to be homogeneous with respect to population characteristics, economic status, and living conditions. Census tracts do not cross county boundaries. The spatial size of census tracts varies widely depending on the density of settlement. Census tract boundaries are delineated with the intention of being maintained over a long time so that statistical comparisons can be made from census to census. However, physical changes in street patterns caused by highway construction, new development, etc., may require occasional revisions; census tracts occasionally are split due to large population growth, or combined as a result of substantial population decline. Census tracts are referred to as "tracts" in all 1990 data products.

Census tracts are identified by a four-digit basic number and may have a two-digit suffix; for example, 6059.02. The decimal point separating the four-digit basic tract number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many census tracts do not have a suffix; in such cases, the suffix field is left blank in all data products. Leading zeros in a census tract number (for example, 002502) are shown only on machine-readable files.

Census tract numbers range from 0001 through 9499.99 and are unique within a county (numbers in the range of 9501 through 9989.99 denote a block numbering area). The suffix .99 identifies a census tract that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" census tract appears on census maps only as an anchor symbol with its census tract number (and block numbers on maps showing block numbers). These census tracts relate to the ships associated with the onshore census tract having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify census tracts that either were revised or were created during the 1990 census data collection activities. Some of these revisions may have resulted in census tracts that have extremely small land area and may have little or no population or housing. For data analysis, such a census tract can be summarized with an adjacent census tract.

## CONGRESSIONAL DISTRICT (CD)

Congressional districts (CD's) are the 435 areas from which persons are elected to the U.S. House of Representatives. After the apportionment of congressional

seats among the States, based on census population counts, each State is responsible for establishing CD's for the purpose of electing representatives. Each CD is to be as equal in population to all other CD's in the State as practicable, based on the decennial census counts.

The CD's that were in effect on January 1, 1990 were those of the 101st Congress. Data on the 101st Congress appear in an early 1990 census data product (Summary Tape File 1A). The CD's of the 101st Congress are the same as those in effect for the 102nd Congress. CD's of the 103rd Congress, reflecting redistricting based on the 1990 census, are summarized in later 1990 data products (STF's 1D and 3D, and 1990 CPH-4, *Population and Housing Characteristics for Congressional Districts of the 103rd Congress* printed reports).

## COUNTY

The primary political divisions of most States are termed "counties." In Louisiana, these divisions are known as "parishes." In Alaska, which has no counties, the county equivalents are the organized "boroughs" and the "census areas" that are delineated for statistical purposes by the State of Alaska and the Census Bureau. In four States (Maryland, Missouri, Nevada, and Virginia), there are one or more cities that are independent of any county organization and thus constitute primary divisions of their States. These cities are known as "Independent cities" and are treated as equivalent to counties for statistical purposes. That part of Yellowstone National Park in Montana is treated as a county equivalent. The District of Columbia has no primary divisions, and the entire area is considered equivalent to a county for statistical purposes.

Each county and county equivalent is assigned a three-digit FIPS code that is unique within State. These codes are assigned in alphabetical order of county or county equivalent within State, except for the Independent cities, which follow the listing of counties.

## COUNTY SUBDIVISION

County subdivisions are the primary subdivisions of counties and their equivalents for the reporting of decennial census data. They include census county divisions, census subareas, minor civil divisions, and unorganized territories.

Each county subdivision is assigned a three-digit census code in alphabetical order within county and a five-digit FIPS code in alphabetical order within State.

### Census County Division (CCD)

Census county divisions (CCD's) are subdivisions of a county that were delineated by the Census Bureau, in cooperation with State officials and local census statistical areas committees, for statistical purposes. CCD's

were established in 21 States where there are no legally established minor civil divisions (MCD's), where the MCD's do not have governmental or administrative purposes, where the boundaries of the MCD's change frequently, and/or where the MCD's are not generally known to the public. CCD's have no legal functions, and are not governmental units.

The boundaries of CCD's usually are delineated to follow visible features, and in most cases coincide with census tract or block numbering area boundaries. The name of each CCD is based on a place, county, or well-known local name that identifies its location. CCD's have been established in the following 21 States: Alabama, Arizona, California, Colorado, Delaware, Florida, Georgia, Hawaii, Idaho, Kentucky, Montana, Nevada, New Mexico, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Utah, Washington, and Wyoming. For the 1980 census, the county subdivisions recognized for Nevada were MCD's.

### Census Subarea (Alaska)

Census subareas are statistical subdivisions of boroughs and census areas (county equivalents) in Alaska. Census subareas were delineated cooperatively by the State of Alaska and the Census Bureau. The census subareas, identified first in 1980, replaced the various types of subdivisions used in the 1970 census.

### Minor Civil Division (MCD)

Minor civil divisions (MCD's) are the primary political or administrative divisions of a county. MCD's represent many different kinds of legal entities with a wide variety of governmental and/or administrative functions. MCD's are variously designated as American Indian reservations, assessment districts, boroughs, election districts, gores, grants, magisterial districts, parish governing authority districts, plantations, precincts, purchases, supervisors' districts, towns, and townships. In some States, all or some incorporated places are not located in any MCD and thus serve as MCD's in their own right. In other States, incorporated places are subordinate to (part of) the MCD's in which they are located, or the pattern is mixed—some incorporated places are independent of MCD's and others are subordinate to one or more MCD's.

The Census Bureau recognizes MCD's in the following 28 States: Arkansas, Connecticut, Illinois, Indiana, Iowa, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, Virginia, West Virginia, and Wisconsin. The District of Columbia has no primary divisions, and the entire area is considered equivalent to an MCD for statistical purposes.



The MCD's in 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin) also serve as general-purpose local governments. The Census Bureau presents data for these MCD's in all data products in which it provides data for places.

### **Unorganized Territory (unorg.)**

In nine States (Arkansas, Iowa, Kansas, Louisiana, Maine, Minnesota, North Carolina, North Dakota, and South Dakota), some counties contain territory that is not included in an MCD recognized by the Census Bureau. Each separate area of unorganized territory in these States is recognized as one or more separate county subdivisions for census purposes. Each unorganized territory is given a descriptive name, followed by the designation "unorg."

### **GEOGRAPHIC CODE**

Geographic codes are shown primarily on machine-readable data products, such as computer tape and compact disc-read only memory (CD-ROM), but also appear on other products such as microfiche; they also are shown on some census maps. Codes are identified as "census codes" only if there is also a Federal Information Processing Standards (FIPS) code for the same geographic entity. A code that is not identified as either "census" or "FIPS" is usually a census code for which there is no FIPS equivalent, or for which the Census Bureau does not use the FIPS code. The exceptions, which use only the FIPS code in census products, are county, congressional district, and metropolitan area (that is, metropolitan statistical area, consolidated metropolitan statistical area, and primary metropolitan statistical area).

### **Census Code**

Census codes are assigned for a variety of geographic entities, including American Indian and Alaska Native area, census division, census region, county subdivision, place, State, urbanized area, and voting district. The structure, format, and meaning of census codes appear in the 1990 census *Geographic Identification Code Scheme*; in the data dictionary portion of the technical documentation for summary tape files and CD-ROM's.

### **Federal Information Processing Standards (FIPS) Code**

Federal Information Processing Standards (FIPS) codes are assigned for a variety of geographic entities, including American Indian and Alaska Native area, congressional district, county, county subdivision, metropolitan area, place, and State. The structure, format, and meaning of FIPS codes used in the census are

shown in the 1990 census *Geographic Identification Code Scheme*; in the data dictionary portion of the technical documentation for summary tape files and CD-ROM's.

The objective of the FIPS codes is to improve the use of data resources of the Federal Government and avoid unnecessary duplication and incompatibilities in the collection, processing, and dissemination of data. More information about FIPS and FIPS code documentation is available from the National Technical Information Service, Springfield, VA 22161.

### **United States Postal Service (USPS) Code**

United States Postal Service (USPS) codes for States are used in all 1990 data products. The codes are two-character alphabetic abbreviations. These codes are the same as the FIPS two-character alphabetic abbreviations.

### **GEOGRAPHIC PRESENTATION**

#### **Hierarchical Presentation**

A hierarchical geographic presentation shows the geographic entities in a superior/subordinate structure in census products. This structure is derived from the legal, administrative, or areal relationships of the entities. The hierarchical structure is depicted in report tables by means of indentation, and is explained for machine-readable media in the discussion of file structure in the geographic coverage portion of the abstract in the technical documentation. An example of hierarchical presentation is the "standard census geographic hierarchy": block, within block group, within census tract or block numbering area, within place, within county subdivision, within county, within State, within division, within region, within the United States. Graphically, this is shown as:

```
United States
  Region
    Division
      State
        County
          County subdivision
            Place (or part)
              Census tract/ block numbering area
                (or part)
                  Block group (or part)
                    Block
```

#### **Inventory Presentation**

An inventory presentation of geographic entities is one in which all entities of the same type are shown in alphabetical or code sequence, without reference to their hierarchical relationships. Generally, an inventory presentation shows totals for entities that may be split in a hierarchical presentation, such as place, census tract/

block numbering area, or block group. An example of a series of inventory presentations is: State, followed by all the counties in that State, followed by all the places in that State. Graphically, this is shown as:

State  
County "A"  
County "B"  
County "C"  
  
Place "X"  
Place "Y"  
Place "Z"

## HISTORICAL COUNTS

Historical counts for total population and total housing units are shown in the 1990 CPH-2, *Population and Housing Unit Counts* report series. As in past censuses, the general rule for presenting historical data for States, counties, county subdivisions, and places is to show historical counts only for single, continually existing entities. Stated another way, if an entity existed for both the current and preceding censuses, the tables show counts for the preceding censuses. Included in this category are entities of the same type (county, county subdivision, place) even if they had changed their names. Also included are entities that merged, but only if the new entity retained the name of one of the merged entities. The historical counts shown are for each entity as it was bounded at each census.

In cases where an entity was formed since a preceding census, such as a newly incorporated place or a newly organized township, the symbol three dots "..." is shown for earlier censuses. The three-dot symbol also is shown for those parts of a place that have extended into an additional county or county subdivision through annexation or other revision of boundaries since the preceding census.

In a few cases, changes in the boundaries of county subdivisions caused a place to be split into two or more parts, or to be split differently than in the preceding census. If historical counts for the parts of the place as currently split did not appear in a preceding census, "(NA)" is shown for the place in each county subdivision; however, the historical population and housing unit counts of the place appear in tables that show the entire place. For counties, county subdivisions, and places formed since January 1, 1980, 1980 census population and housing unit counts in the 1990 territory are reported in the geographic change notes included in the "User Notes" text section of 1990 CPH-2, *Population and Housing Unit Counts*, and in the technical documentation of Summary Tape Files 1 and 3.

In some cases, population and housing unit counts for individual areas were revised since publication of the 1980 reports (indicated by the prefix "r"). In a number of tables of 1990 CPH-2, *Population and Housing Unit*

*Counts*, 1980 counts are shown for aggregations of individual areas, such as the number, population, and housing unit counts of places in size groups, or urban and rural distributions. Revisions of population and housing unit counts for individual areas were not applied to the various aggregations. Therefore, it may not be possible to determine the individual areas in a given aggregation using the historical counts; conversely, the sum of the counts shown for individual areas may not agree with the aggregation.

## INTERNAL POINT

An internal point is a set of geographic coordinates (latitude and longitude) that is located within a specified geographic entity. A single point is identified for each entity; for many entities, this point represents the approximate geographic center of that entity. If the shape of the entity caused this point to be located outside the boundaries of the entity, it is relocated from the center so that it is within the entity. If the internal point for a block falls in a water area, it is relocated to a land area within the block. On machine-readable products, internal points are shown to six decimal places; the decimal point is implied.

## METROPOLITAN AREA (MA)

The general concept of a metropolitan area (MA) is one of a large population nucleus, together with adjacent communities that have a high degree of economic and social integration with that nucleus. Some MA's are defined around two or more nuclei.

The MA classification is a statistical standard, developed for use by Federal agencies in the production, analysis, and publication of data on MA's. The MA's are designated and defined by the Federal Office of Management and Budget, following a set of official published standards. These standards were developed by the interagency Federal Executive Committee on Metropolitan Areas, with the aim of producing definitions that are as consistent as possible for all MA's nationwide.

Each MA must contain either a place with a minimum population of 50,000 or a Census Bureau-defined urbanized area and a total MA population of at least 100,000 (75,000 in New England). An MA comprises one or more central counties. An MA also may include one or more outlying counties that have close economic and social relationships with the central county. An outlying county must have a specified level of commuting to the central counties and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth. In New England, MA's are composed of cities and towns rather than whole counties.

The territory, population, and housing units in MA's are referred to as "metropolitan." The metropolitan category is subdivided into "inside central city" and "outside central city." The territory, population, and housing units located outside MA's are referred to as "nonmetropolitan." The metropolitan and nonmetropolitan classification cuts across the other hierarchies; for example, there is generally both urban and rural territory within both metropolitan and nonmetropolitan areas.

To meet the needs of various users, the standards provide for a flexible structure of metropolitan definitions that classify an MA either as a metropolitan statistical area (MSA) or as a consolidated metropolitan statistical area (CMSA) that is divided into primary metropolitan statistical areas (PMSA's). Documentation of the MA standards and how they are applied is available from the Secretary, Federal Executive Committee on Metropolitan Areas, Population Division, U.S. Bureau of the Census, Washington, DC 20233.

### **Central City**

In each MSA and CMSA, the largest place and, in some cases, additional places are designated as "central cities" under the official standards. A few PMSA's do not have central cities. The largest central city and, in some cases, up to two additional central cities are included in the title of the MA; there also are central cities that are not included in an MA title. An MA central city does not include any part of that city that extends outside the MA boundary.

### **Consolidated and Primary Metropolitan Statistical Area (CMSA and PMSA)**

If an area that qualifies as an MA has more than one million persons, primary metropolitan statistical areas (PMSA's) may be defined within it. PMSA's consist of a large urbanized county or cluster of counties that demonstrates very strong internal economic and social links, in addition to close ties to other portions of the larger area. When PMSA's are established, the larger area of which they are component parts is designated a consolidated metropolitan statistical area (CMSA).

### **Metropolitan Statistical Area (MSA)**

Metropolitan statistical areas (MSA's) are relatively freestanding MA's and are not closely associated with other MA's. These areas typically are surrounded by nonmetropolitan counties.

### **Metropolitan Area Title and Code**

The title of an MSA contains the name of its largest central city and up to two additional city names, provided that the additional places meet specified levels of population, employment, and commuting. Generally, a city with a population of 250,000 or more is in the title, regardless of other criteria.

The title of a PMSA may contain up to three place names, as determined above, or up to three county names, sequenced in order of population. A CMSA title also may include up to three names, the first of which generally is the most populous central city in the area. The second name may be the first city or county name in the most populous remaining PMSA; the third name may be the first city or county name in the next most populous PMSA. A regional designation may be substituted for the second and/or third names in a CMSA title. If such a designation is supported by local opinion and is deemed to be unambiguous and suitable by the Office of Management and Budget.

The titles for all MA's also contain the name of each State in which the area is located. Each metropolitan area is assigned a four-digit FIPS code, in alphabetical order nationwide. If the fourth digit of the code is a "2," it identifies a CMSA. Additionally, there is a separate set of two-digit codes for CMSA's, also assigned alphabetically.

## **OUTLYING AREAS OF THE UNITED STATES**

The Census Bureau treats the outlying areas as the statistical equivalents of States for the 1990 census. The outlying areas are American Samoa, Guam, the Commonwealth of the Northern Mariana Islands (Northern Mariana Islands), Republic of Palau (Palau), Puerto Rico, and the Virgin Islands of the United States (Virgin Islands). Geographic definitions specific to each outlying area are shown in appendix A of the text in the data products for each area.

## **PLACE**

Places, for the reporting of decennial census data, include census designated places and incorporated places. Each place is assigned a four-digit census code that is unique within State. Each place is also assigned a five-digit FIPS code that is unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State. Consolidated cities (see below) are assigned a one-character alphabetical census code that is unique nationwide and a five-digit FIPS code that is unique within State.

### **Census Designated Place (CDP)**

Census designated places (CDP's) are delineated for the decennial census as the statistical counterparts of incorporated places. CDP's comprise densely settled concentrations of population that are identifiable by name, but are not legally incorporated places. Their boundaries, which usually coincide with visible features or the boundary of an adjacent incorporated place, have no legal status, nor do these places have officials elected to serve traditional municipal functions. CDP

boundaries may change with changes in the settlement pattern; a CDP with the same name as in previous censuses does not necessarily have the same boundaries.

Beginning with the 1950 census, the Census Bureau, in cooperation with State agencies and local census statistical areas committees, has identified and delineated boundaries for CDP's. In the 1990 census, the name of each such place is followed by "CDP." In the 1980 census, "(CDP)" was used; in 1970, 1960, and 1950 censuses, these places were identified by "(U)," meaning "unincorporated place."

To qualify as a CDP for the 1990 census, an unincorporated community must have met the following criteria:

1. In all States except Alaska and Hawaii, the Census Bureau uses three population size criteria to designate a CDP. These criteria are:
  - a. 1,000 or more persons if outside the boundaries of an urbanized area (UA) delineated for the 1980 census or a subsequent special census.
  - b. 2,500 or more persons if inside the boundaries of a UA delineated for the 1980 census or a subsequent special census.
  - c. 250 or more persons if outside the boundaries of a UA delineated for the 1980 census or a subsequent special census, and within the official boundaries of an American Indian reservation recognized for the 1990 census.
2. In Alaska, 25 or more persons if outside a UA, and 2,500 or more persons if inside a UA delineated for the 1980 census or a subsequent special census.
3. In Hawaii, 300 or more persons, regardless of whether the community is inside or outside a UA.

For the 1990 census, CDP's qualified on the basis of the population counts prepared for the 1990 Postcensus Local Review Program. Because these counts were subject to change, a few CDP's may have final population counts lower than the minimums shown above.

Hawaii is the only State with no incorporated places recognized by the Bureau of the Census. All places shown for Hawaii in the data products are CDP's. By agreement with the State of Hawaii, the Census Bureau does not show data separately for the city of Honolulu, which is coextensive with Honolulu County.

## Consolidated City

A consolidated government is a unit of local government for which the functions of an incorporated place and its county or minor civil division (MCD) have merged. The legal aspects of this action may result in both the primary incorporated place and the county or MCD continuing to exist as legal entities, even though the

county or MCD performs few or no governmental functions and has few or no elected officials. Where this occurs, and where one or more other incorporated places in the county or MCD continue to function as separate governments, even though they have been included in the consolidated government, the primary incorporated place is referred to as a "consolidated city."

The data presentation for consolidated cities varies depending upon the geographic presentation. In hierarchical presentations, consolidated cities are not shown. These presentations include the semi-independent places and the "consolidated city (remainder)." Where the consolidated city is coextensive with a county or county subdivision, the data shown for those areas in hierarchical presentations are equivalent to those for the consolidated government.

For inventory geographic presentations, the consolidated city appears at the end of the listing of places. The data for the consolidated city include places that are part of the consolidated city. The "consolidated city (remainder)" is the portion of the consolidated government minus the semi-independent places, and is shown in alphabetical sequence with other places.

In summary presentations by size of place, the consolidated city is not included. The places semi-independent of consolidated cities are categorized by their size, as is the "consolidated city (remainder)."

Each consolidated city is assigned a one-character alphabetic census code. Each consolidated city also is assigned a five-digit FIPS code that is unique within State. The semi-independent places and the "consolidated city (remainder)" are assigned a four-digit census code and a five-digit FIPS place code that are unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State.

## Incorporated Place

Incorporated places recognized in 1990 census data products are those reported to the Census Bureau as legally in existence on January 1, 1990 under the laws of their respective States as cities, boroughs, towns, and villages, with the following exceptions: the towns in the New England States, New York, and Wisconsin, and the boroughs in New York are recognized as minor civil divisions for census purposes; the boroughs in Alaska are county equivalents.

## POPULATION OR HOUSING UNIT DENSITY

Population or housing unit density is computed by dividing the total population or housing units of a geographic unit (for example, United States, State, county, place) by its land area measured in square kilometers or square miles. Density is expressed as both

"persons (or housing units) per square kilometer" and "persons (or housing units) per square mile" of land area in 1990 census printed reports.

## STATE

States are the primary governmental divisions of the United States. The District of Columbia is treated as a statistical equivalent of a State for census purposes. The four census regions, nine census divisions, and their component States are shown under "CENSUS REGION AND CENSUS DIVISION" in this appendix.

The Census Bureau treats the outlying areas as State equivalents for the 1990 census. The outlying areas are American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands of the United States. Geographic definitions specific to each outlying area are shown in appendix A in the data products for each area.

Each State and equivalent is assigned a two-digit numeric Federal Information Processing Standards (FIPS) code in alphabetical order by State name, followed by the outlying area names. Each State and equivalent area also is assigned a two-digit census code. This code is assigned on the basis of the geographic sequence of each State within each census division; the first digit of the code is the code for the respective division. Puerto Rico, the Virgin Islands, and the outlying areas of the Pacific are assigned "0" as the division code. Each State and equivalent area also is assigned the two-letter FIPS/United States Postal Service (USPS) code.

In 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin), the minor civil divisions also serve as general-purpose local governments. The Census Bureau presents data for these minor civil divisions in all data products in which it provides data for places.

## TIGER

TIGER is an acronym for the new digital (computer-readable) geographic data base that automates the mapping and related geographic activities required to support the Census Bureau's census and survey programs. The Census Bureau developed the Topologically Integrated Geographic Encoding and Referencing (TIGER) System to automate the geographic support processes needed to meet the major geographic needs of the 1990 census: producing the cartographic products to support data collection and map publication, providing the geographic structure for tabulation and publication of the collected data, assigning residential and employer addresses to their geographic location and relating those locations to the Census Bureau's geographic units, and so forth. The content of the TIGER data base

is made available to the public through a variety of "TIGER Extract" files that may be obtained from the Data User Services Division, U.S. Bureau of the Census, Washington, DC 20233.

## UNITED STATES

The United States comprises the 50 States and the District of Columbia. In addition, the Census Bureau treats the outlying areas as statistical equivalents of States for the 1990 census. The outlying areas include American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands.

## URBAN AND RURAL

The Census Bureau defines "urban" for the 1990 census as comprising all territory, population, and housing units in urbanized areas and in places of 2,500 or more persons outside urbanized areas. More specifically, "urban" consists of territory, persons, and housing units in:

1. Places of 2,500 or more persons incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the six New England States, New York, and Wisconsin), but excluding the rural portions of "extended cities."
2. Census designated places of 2,500 or more persons.
3. Other territory, incorporated or unincorporated, included in urbanized areas.

Territory, population, and housing units not classified as urban constitute "rural." In the 100-percent data products, "rural" is divided into "places of less than 2,500" and "not in places." The "not in places" category comprises "rural" outside incorporated and census designated places and the rural portions of extended cities. In many data products, the term "other rural" is used; "other rural" is a residual category specific to the classification of the rural in each data product.

In the sample data products, rural population and housing units are subdivided into "rural farm" and "rural nonfarm." "Rural farm" comprises all rural households and housing units on farms (places from which \$1,000 or more of agricultural products were sold in 1989); "rural nonfarm" comprises the remaining rural.

The urban and rural classification cuts across the other hierarchies; for example, there is generally both urban and rural territory within both metropolitan and nonmetropolitan areas.

In censuses prior to 1950, "urban" comprised all territory, persons, and housing units in incorporated places of 2,500 or more persons, and in areas (usually minor civil divisions) classified as urban under special

rules relating to population size and density. The definition of urban that restricted itself to incorporated places having 2,500 or more persons excluded many large, densely settled areas merely because they were not incorporated. Prior to the 1950 census, the Census Bureau attempted to avoid some of the more obvious omissions by classifying selected areas as "urban under special rules." Even with these rules, however, many large, closely built-up areas were excluded from the urban category.

To improve its measure of urban territory, population, and housing units, the Census Bureau adopted the concept of the urbanized area and delineated boundaries for unincorporated places (now, census designated places) for the 1950 census. Urban was defined as territory, persons, and housing units in urbanized areas and, outside urbanized areas, in all places, incorporated or unincorporated, that had 2,500 or more persons. With the following three exceptions, the 1950 census definition of urban has continued substantially unchanged. First, in the 1960 census (but not in the 1970, 1980, or 1990 censuses), certain towns in the New England States, townships in New Jersey and Pennsylvania, and Arlington County, Virginia, were designated as urban. However, most of these "special rule" areas would have been classified as urban anyway because they were included in an urbanized area or in an unincorporated place of 2,500 or more persons. Second, "extended cities" were identified for the 1970, 1980, and 1990 censuses. Extended cities primarily affect the figures for urban and rural territory (area), but have very little effect on the urban and rural population and housing units at the national and State levels—although for some individual counties and urbanized areas, the effects have been more evident. Third, changes since the 1970 census in the criteria for defining urbanized areas have permitted these areas to be defined around smaller centers.

Documentation of the urbanized area and extended city criteria is available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

### **Extended City**

Since the 1960 census, there has been a trend in some States toward the extension of city boundaries to include territory that is essentially rural in character. The classification of all the population and living quarters of such places as urban would include in the urban designation territory, persons, and housing units whose environment is primarily rural. For the 1970, 1980, and 1990 censuses, the Census Bureau identified as rural such territory and its population and housing units for each extended city whose closely settled area was located in an urbanized area. For the 1990 census, this classification also has been applied to certain places outside urbanized areas.

In summary presentations by size of place, the urban portion of an extended city is classified by the population of the entire place; the rural portion is included in "other rural."

### **URBANIZED AREA (UA)**

The Census Bureau delineates urbanized areas (UA's) to provide a better separation of urban and rural territory, population, and housing in the vicinity of large places. A UA comprises one or more places ("central place") and the adjacent densely settled surrounding territory ("urban fringe") that together have a minimum of 50,000 persons. The urban fringe generally consists of contiguous territory having a density of at least 1,000 persons per square mile. The urban fringe also includes outlying territory of such density if it was connected to the core of the contiguous area by road and is within 1 1/2 road miles of that core, or within 5 road miles of the core but separated by water or other undevelopable territory. Other territory with a population density of fewer than 1,000 people per square mile is included in the urban fringe if it eliminates an enclave or closes an indentation in the boundary of the urbanized area. The population density is determined by (1) outside of a place, one or more contiguous census blocks with a population density of at least 1,000 persons per square mile or (2) inclusion of a place containing census blocks that have at least 50 percent of the population of the place and a density of at least 1,000 persons per square mile. The complete criteria are available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

### **Urbanized Area Central Place**

One or more central places function as the dominant centers of each UA. The identification of a UA central place permits the comparison of this dominant center with the remaining territory in the UA. There is no limit on the number of central places, and not all central places are necessarily included in the UA title. UA central places include:

1. Each place entirely (or partially, if the place is an extended city) within the UA that is a central city of a metropolitan area (MA).
2. If the UA does not contain an MA central city or is located outside of an MA, the central place(s) is determined by population size.

### **Urbanized Area Title and Code**

The title of a UA identifies those places that are most important within the UA; it links the UA to the encompassing MA, where appropriate. If a single MA includes most of the UA, the title and code of the UA generally

are the same as the title and code of the MA. If the UA is not mostly included in a single MA, if it does not include any place that is a central city of the encompassing MA, or if it is not located in an MA, the Census Bureau uses the population size of the included places, with a preference for incorporated places, to determine the UA title. The name of each State in which the UA is located also is in each UA title.

The numeric code used to identify each UA is the same as the code for the mostly encompassing MA (including CMSA and PMSA). If MA title cities represent multiple UA's, or the UA title city does not correspond to the first name of an MA title, the Census Bureau assigns a code based on the alphabetical sequence of the UA title in relationship to the other UA and MA titles.

### **VOTING DISTRICT (VTD)**

A voting district (VTD) is any of a variety of types of areas (for example, election districts, precincts, wards, legislative districts) established by State and local governments for purposes of elections. For census purposes, each State participating in Phase 2 of the 1990 Census Redistricting Data Program outlined the boundaries of VTD's around groups of whole census blocks on census maps. The entities identified as VTD's are not necessarily those legally or currently established. Also, to meet the "whole block" criterion, a State may

have had to adjust VTD boundaries to nearby block boundaries. Therefore, the VTD's shown on the 1990 census tapes, listings, and maps may not represent the actual VTD's in effect at the time of the census. In the 1980 census, VTD's were referred to as "election precincts."

Each VTD is assigned a four-character alphanumeric code that is unique within each county. The code "ZZZZ" is assigned to nonparticipating areas; the Census Bureau reports data for areas coded "ZZZZ."

### **ZIP CODE<sup>3</sup>**

ZIP Codes are administrative units established by the United States Postal Service (USPS) for the distribution of mail. ZIP Codes serve addresses for the most efficient delivery of mail, and therefore generally do not respect political or census statistical area boundaries. ZIP Codes usually do not have clearly identifiable boundaries, often serve a continually changing area, are changed periodically to meet postal requirements, and do not cover all the land area of the United States. ZIP Codes are identified by five-digit codes assigned by the USPS. The first three digits identify a major city or sectional distribution center, and the last two digits generally signify a specific post office's delivery area or point. For the 1990 census, ZIP Code data are tabulated for the five-digit codes in STF 3B.

# APPENDIX B.

## Definitions of Subject Characteristics

These definitions are for all subject characteristics that the Census Bureau will include in its standard 1990 census data products. However, not all concepts may be applicable for this file. For more information about the various 1990 census data products, see appendix F in this documentation.

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## POPULATION CHARACTERISTICS

### AGE

The data on age were derived from answers to questionnaire item 5, which was asked of all persons. The age classification is based on the age of the person in complete years as of April 1, 1990. The age response in question 5a was used normally to represent a person's age. However, when the age response was unacceptable or unavailable, a person's age was derived from an acceptable year-of-birth response in question 5b.

Data on age are used to determine the applicability of other questions for a person and to classify other characteristics in census tabulations. Age data are needed to interpret most social and economic characteristics used to plan and examine many programs and policies. Therefore, age is tabulated by single years of age and by many different groupings, such as 5-year age groups.

Some tabulations are shown by the age of the householder. These data were derived from the age responses for each householder. (For more information on householder, see the discussion under "Household Type and Relationship.")

**Median Age**—This measure divides the age distribution into two equal parts: one-half of the cases falling below the median value and one-half above the value. Generally, median age is computed on the basis of more detailed age intervals than are shown in some census publications; thus, a median based on a less detailed distribution may differ slightly from a corresponding median for the same population based on a more detailed distribution. (For more information on medians, see the discussion under "Derived Measures.")

**Limitation of the Data**—Counts in 1970 and 1980 for persons 100 years old and over were substantially overstated. Improvements were made in the questionnaire design, in the allocation procedures, and to the respondent instruction guide to attempt to minimize this problem for the 1990 census.

Review of detailed 1990 census information indicated that respondents tended to provide their age as of the date of completion of the questionnaire, not their age as of April 1, 1990. In addition, there may have been a tendency for respondents to round their age up if they were close to having a birthday. It is likely that approximately 10 percent of persons in most age groups are actually 1 year younger. For most single years of age, the misstatements are largely offsetting. The problem is most pronounced at age 0 because persons lost to age 1 may not have been fully offset by the inclusion of babies born after April 1, 1990, and because there may have been more rounding up to age 1 to avoid reporting age as 0 years. (Age in complete months was not collected for infants under age 1.)

The reporting of age 1 year older than age on April 1, 1990, is likely to have been greater in areas where the census data were collected later in 1990. The magnitude of this problem was much less in the three previous censuses where age was typically derived from respondent data on year of birth and quarter of birth. (For more information on the design of the age question, see the section below that discusses "Comparability.")

**Comparability**—Age data have been collected in every census. For the first time since 1950, the 1990 data are not available by quarter year of age. This change was made so that coded information could be obtained for both age and year of birth. In each census since 1940, the age of a person was assigned when it was not reported. In censuses before 1940, with the exception of 1880, persons of unknown age were shown as a separate category. Since 1960, assignment of unknown age has been performed by a general procedure described as "imputation." The specific procedures for imputing age have been different in each census. (For more information on imputation, see Appendix C, Accuracy of the Data.)

### ANCESTRY

The data on ancestry were derived from answers to questionnaire item 13, which was asked of a sample of persons. The question was based on self-identification; the data on ancestry represent self-classification by people according to the ancestry group(s) with which they most closely identify. Ancestry refers to a person's ethnic origin or descent, "roots," or heritage or the place of birth of the person or the person's parents or ancestors before their arrival in the United States. Some ethnic identities, such as "Egyptian" or "Polish" can be traced to geographic areas outside the United States, while other ethnicities such as "Pennsylvania Dutch" or "Cajun" evolved in the United States.

The intent of the ancestry question was not to measure the degree of attachment the respondent had to a particular ethnicity. For example, a response of "Irish" might reflect total involvement in an "Irish" community or only a memory of ancestors several generations removed from the individual.

The Census Bureau coded the responses through an automated review, edit, and coding operation. The open-ended write-in ancestry item was coded by subject-matter specialists into a numeric representation using a code list containing over 1,000 categories. The 1990 code list reflects the results of the Census Bureau's own research and consultations with many ethnic experts. Many decisions were made to determine the classification of responses. These decisions affected the grouping of the tabulated data. For example, the "Assyrian" category includes both responses of "Assyrian" and "Chaldean."

The ancestry question allowed respondents to report one or more ancestry groups. While a large number of respondents listed a single ancestry, the majority of answers included more than one ethnic entry. Generally, only the first two responses reported were coded in 1990. If a response was in terms of a dual ancestry, for example, Irish-English, the person was assigned two codes, in this case one for Irish and another for English.

However, in certain cases, multiple responses such as "French Canadian," "Scotch-Irish," "Greek Cypriote," and "Black Dutch" were assigned a single code reflecting their status as unique groups. If a person reported one of these unique groups in addition to another group, for example, "Scotch-Irish English," resulting in three terms, that person received one code for the unique group ("Scotch-Irish") and another one for the remaining group ("English"). If a person reported "English Irish French," only English and Irish were coded. Certain combinations of ancestries where the ancestry group is a part of another, such as "German-Bavarian," the responses were coded as a single ancestry using the smaller group ("Bavarian"). Also, responses such as "Polish-American" or "Italian-American" were coded and tabulated as a single entry ("Polish" or "Italian").

The Census Bureau accepted "American" as a unique ethnicity if it was given alone, with an ambiguous response, or with State names. If the respondent listed any other ethnic identity such as "Italian American," generally the "American" portion of the response was not coded. However, distinct groups such as "American Indian," "Mexican American," and "African American" were coded and identified separately because they represented groups who considered themselves different from those who reported as "Indian," "Mexican," or "African," respectively.

In all tabulations, when respondents provided an unacceptable ethnic identity (for example, an uncodeable or unintelligible response such as "multi-national,"

"adopted," or "I have no idea"), the answer was included in "Ancestry not reported."

The tabulations on ancestry are presented using two types of data presentations—one used total persons as the base, and the other used total responses as the base. The following are categories shown in the two data presentations:

#### *Presentation Based on Persons:*

**Single Ancestries Reported**—Includes all persons who reported only one ethnic group. Included in this category are persons with multiple-term responses such as "Scotch-Irish" who are assigned a single code.

**Multiple Ancestries Reported**—Includes all persons who reported more than one group and were assigned two ancestry codes.

**Ancestry Unclassified**—Includes all persons who provided a response that could not be assigned an ancestry code because they provided nonsensical entries or religious responses.

#### *Presentations Based on Responses:*

**Total Ancestries Reported**—Includes the total number of ancestries reported and coded. If a person reported a multiple ancestry such as "French Danish," that response was counted twice in the tabulations—once in the "French" category and again in the "Danish" category. Thus, the sum of the counts in this type of presentation is not the total population but the total of all responses.

**First Ancestry Reported**—Includes the first response of all persons who reported at least one codeable entry. For example, in this category, the count for "Danish" would include all those who reported only Danish and those who reported Danish first and then some other group.

**Second Ancestry Reported**—Includes the second response of all persons who reported a multiple ancestry. Thus, the count for "Danish" in this category includes all persons who reported Danish as the second response, regardless of the first response provided.

The Census Bureau identified hundreds of ethnic groups in the 1990 census. However, it was impossible to show information for every group in all census tabulations because of space constraints. Publications such as the 1990 CP-2, *Social and Economic Characteristics* and the 1990 CPH-3, *Population and Housing Characteristics for Census Tracts and Block Numbering Areas* reports show a limited number of groups based on the number reported and the advice received from experts. A more complete distribution of groups is

presented in the 1990 Summary Tape File 4, *Supplementary Reports*, and a special subject report on ancestry. In addition, groups identified specifically in the questions on race and Hispanic origin (for example, Japanese, Laotian, Mexican, Cuban, and Spaniard), in general, are not shown separately in ancestry tabulations.

**Limitation of the Data**—Although some experts consider religious affiliation a component of ethnic identity, the ancestry question was not designed to collect any information concerning religion. The Bureau of the Census is prohibited from collecting information on religion. Thus, if a religion was given as an answer to the ancestry question, it was coded as an "Other" response.

**Comparability**—A question on ancestry was first asked in the 1980 census. Although there were no comparable data prior to the 1980 census, related information on ethnicity was collected through questions on parental birthplace, own birthplace, and language which were included in previous censuses. Unlike other census questions, there was no imputation for nonresponse to the ancestry question.

In 1990, respondents were allowed to report more than one ancestry group; however, only the first two ancestry groups identified were coded. In 1980, the Census Bureau attempted to code a third ancestry for selected triple-ancestry responses.

New categories such as "Arab" and "West Indian" were added to the 1990 question to meet important data needs. The "West Indian" category excluded "Hispanic" groups such as "Puerto Rican" and "Cuban" that were identified primarily through the question on Hispanic origin. In 1990, the ancestry group, "American" is recognized and tabulated as a unique ethnicity. In 1980, "American" was tabulated but included under the category "Ancestry not specified."

A major improvement in the 1990 census was the use of an automated coding system for ancestry responses. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses.

## CITIZENSHIP

The data on citizenship were derived from answers to questionnaire item 9, which was asked of a sample of persons.

**Citizen**—Persons who indicated that they were native-born and foreign-born persons who indicated that they have become naturalized. (For more information on native and foreign born, see the discussion under "Place of Birth.")

There are four categories of citizenship: (1) born in the United States, (2) born in Puerto Rico, Guam, the Virgin Islands of the United States, or the Commonwealth of the Northern Mariana Islands, (3) born abroad of American parents, and (4) citizen by naturalization.

**Naturalized Citizen**—Foreign-born persons who had completed the naturalization process at the time of the census and upon whom the rights of citizenship had been conferred.

**Not a Citizen**—Foreign-born persons who were not citizens, including persons who had begun but not completed the naturalization process at the time of the census.

**Limitation of the Data**—Evaluation studies completed after previous censuses indicated that some persons may have reported themselves as citizens although they had not yet attained the status.

**Comparability**—Similar questions on citizenship were asked in the censuses of 1820, 1830, 1870, 1890 through 1950, 1970, and 1980. The 1980 question was asked of a sample of the foreign-born population. In 1990, both native and foreign-born persons who received the long-form questionnaire were asked to respond to the citizenship question.

## EDUCATIONAL ATTAINMENT

Data on educational attainment were derived from answers to questionnaire item 12, which was asked of a sample of persons. Data are tabulated as attainment for persons 15 years old and over. Persons are classified according to the highest level of school completed or the highest degree received. The question included instructions to report the level of the previous grade attended or the highest degree received for persons currently enrolled in school. The question included response categories which allowed persons to report completing the 12th grade without receiving a high school diploma, and which instructed respondents to report as "high school graduate(s)"—persons who received either a high school diploma or the equivalent, for example, passed the Test of General Educational Development (G.E.D.), and did not attend college. (On the Military Census Report questionnaire, the lowest response category was "Less than 9th grade.")

Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that schooling completed in foreign or ungraded school systems should be reported as the equivalent level of schooling in the regular American system; that vocational certificates or diplomas from vocational, trade, or business schools or colleges were not to be reported unless they were

college level degrees; and that honorary degrees were not to be reported. The instructions gave "medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology" as examples of professional school degrees, and specifically excluded "barber school, cosmetology, or other training for a specific trade" from the professional school category. The order in which they were listed suggested that doctorate degrees were "higher" than professional school degrees, which were "higher" than master's degrees.

Persons who did not report educational attainment were assigned the attainment of a person of the same age, race or Spanish origin, and sex who resided in the same or a nearby area. Persons who filled more than one circle were edited to the highest level or degree reported.

**High School Graduate or Higher**—Includes persons whose highest degree was a high school diploma or its equivalent, persons who attended college or professional school, and persons who received a college, university, or professional degree. Persons who reported completing the 12th grade but not receiving a diploma are not included.

**Not Enrolled, Not High School Graduate**—Includes persons of compulsory school attendance age or above who were not enrolled in school and were not high school graduates; these persons may be taken to be "high school dropouts." There is no restriction on when they "dropped out" of school, and they may have never attended high school.

In prior censuses, "Median school years completed" was used as a summary measure of educational attainment. In 1990, the median can only be calculated for groups of which less than half the members have attended college. "Percent high school graduate or higher" and "Percent bachelor's degree or higher" are summary measures which can be calculated from the present data and offer quite readily interpretable measures of differences between population subgroups. To make comparisons over time, "Percent high school graduate or higher" can be calculated and "Percent bachelor's degree or higher" can be approximated with data from previous censuses.

**Comparability**—From 1840 to 1930, the census measured educational attainment by means of a basic literacy question. In 1940, a single question was asked on highest grade of school completed. In the censuses of 1950 through 1980, a two-part question asking highest grade of school attended and whether that grade was finished was used to construct highest grade or year of school completed. For persons who have not attended college, the response categories in the 1990

educational attainment question should produce data which are comparable to data on highest grade completed from earlier censuses.

The response categories for persons who have attended college were modified from earlier censuses because there was some ambiguity in interpreting responses in terms of the number of years of college completed. For instance, it was not clear whether "completed the fourth year of college," "completed the senior year of college," and "college graduate" were synonymous. Research conducted shortly before the census suggests that these terms were more distinct in 1990 than in earlier decades, and this change may have threatened the ability to estimate the number of "college graduates" from the number of persons reported as having completed the fourth or a higher year of college. It was even more difficult to make inferences about post-baccalaureate degrees and "Associate" degrees from highest year of college completed. Thus, comparisons of post-secondary educational attainment in this and earlier censuses should be made with great caution.

In the 1960 and subsequent censuses, persons for whom educational attainment was not reported were assigned the same attainment level as a similar person whose residence was in the same or a nearby area. In the 1940 and 1950 censuses, persons for whom educational attainment was not reported were not allocated.

## EMPLOYMENT STATUS

The data on employment status were derived from answers to questionnaire items 21, 25, and 26, which were asked of a sample of persons. The series of questions on employment status was asked of all persons 15 years old and over and was designed to identify, in this sequence: (1) persons who worked at any time during the reference week; (2) persons who did not work during the reference week but who had jobs or businesses from which they were temporarily absent (excluding layoff); (3) persons on layoff; and (4) persons who did not work during the reference week, but who were looking for work during the last four weeks and were available for work during the reference week. (For more information, see the discussion under "Reference Week.")

The employment status data shown in this and other 1990 census tabulations relate to persons 16 years old and over. Some tabulations showing employment status, however, include persons 15 years old. By definition, these persons are classified as "Not in Labor Force." In the 1940, 1950, and 1960 censuses, employment status data were presented for persons 14 years old and over. The change in the universe was made in 1970 to agree with the official measurement of the labor force as revised in January 1967 by the U.S. Department of Labor. The 1970 census was the last to show employment data for persons 14 and 15 years old.

**Employed**—All civilians 16 years old and over who were either (1) "at work"—those who did any work at all during the reference week as paid employees, worked in their own business or profession, worked on their own farm, or worked 15 hours or more as unpaid workers on a family farm or in a family business; or (2) were "with a job but not at work"—those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or unpaid volunteer work for religious, charitable, and similar organizations; also excluded are persons on active duty in the United States Armed Forces.

**Unemployed**—All civilians 16 years old and over are classified as unemployed if they (1) were neither "at work" nor "with a job but not at work" during the reference week, and (2) were looking for work during the last 4 weeks, and (3) were available to accept a job. Also included as unemployed are civilians who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off. Examples of job seeking activities are:

- Registering at a public or private employment office
- Meeting with prospective employers
- Investigating possibilities for starting a professional practice or opening a business
- Placing or answering advertisements
- Writing letters of application
- Being on a union or professional register

**Civilian Labor Force**—Consists of persons classified as employed or unemployed in accordance with the criteria described above.

**Experienced Unemployed**—These are unemployed persons who have worked at any time in the past.

**Experienced Civilian Labor Force**—Consists of the employed and the experienced unemployed.

**Labor Force**—All persons classified in the civilian labor force plus members of the U.S. Armed Forces (persons on active duty with the United States Army, Air Force, Navy, Marine Corps, or Coast Guard).

**Not in Labor Force**—All persons 16 years old and over who are not classified as members of the labor force. This category consists mainly of students, housewives, retired workers, seasonal workers enumerated in an

off season who were not looking for work, institutionalized persons, and persons doing only incidental unpaid family work (less than 15 hours during the reference week).

**Worker**—This term appears in connection with several subjects: journey-to-work items, class of worker, weeks worked in 1989, and number of workers in family in 1989. Its meaning varies and, therefore, should be determined in each case by referring to the definition of the subject in which it appears.

**Actual Hours Worked Last Week**—All persons who reported working during the reference week were asked to report in questionnaire item 21b the number of hours that they worked. The statistics on hours worked pertain to the number of hours actually worked at all jobs, and do not necessarily reflect the number of hours typically or usually worked or the scheduled number of hours. The concept of "actual hours" differs from that of "usual hours" described below. The number of persons who worked only a small number of hours is probably understated since such persons sometimes consider themselves as not working. Respondents were asked to include overtime or extra hours worked, but to exclude lunch hours, sick leave, and vacation leave.

**Limitation of the Data**—The census may understate the number of employed persons because persons who have irregular, casual, or unstructured jobs sometimes report themselves as not working. The number of employed persons "at work" is probably overstated in the census (and conversely, the number of employed "with a job, but not at work" is understated) since some persons on vacation or sick leave erroneously reported themselves as working. This problem has no effect on the total number of employed persons. The reference week for the employment data is not the same for all persons. Since persons can change their employment status from one week to another, the lack of a uniform reference week may mean that the employment data do not reflect the reality of the employment situation of any given week. (For more information, see the discussion under "Reference Week.")

**Comparability**—The questionnaire items and employment status concepts for the 1990 census are essentially the same as those used in the 1980 and 1970 censuses. However, these concepts differ in many respects from those associated with the 1950 and 1960 censuses.

Since employment data from the census are obtained from respondents in households, they differ from statistics based on reports from individual business establishments, farm enterprises, and certain government programs. Persons employed at more than one job are counted only once in the census and are classified according to the job at which they worked the greatest

number of hours during the reference week. In statistics based on reports from business and farm establishments, persons who work for more than one establishment may be counted more than once. Moreover, some tabulations may exclude private household workers, unpaid family workers, and self-employed persons, but may include workers less than 16 years of age.

An additional difference in the data arises from the fact that persons who had a job but were not at work are included with the employed in the census statistics, whereas many of these persons are likely to be excluded from employment figures based on establishment payroll reports. Furthermore, the employment status data in census tabulations include persons on the basis of place of residence regardless of where they work, whereas establishment data report persons at their place of work regardless of where they live. This latter consideration is particularly significant when comparing data for workers who commute between areas.

Census data on actual hours worked during the reference week may differ from data from other sources. The census measures hours actually worked, whereas some surveys measure hours paid for by employers. Comparability of census actual hours worked data may also be affected by the nature of the reference week (see "Reference Week").

For several reasons, the unemployment figures of the Census Bureau are not comparable with published figures on unemployment compensation claims. For example, figures on unemployment compensation claims exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (including some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used by the Census Bureau. Persons working only a few hours during the week and persons with a job but not at work are sometimes eligible for unemployment compensation but are classified as "Employed" in the census. Differences in the geographical distribution of unemployment data arise because the place where claims are filed may not necessarily be the same as the place of residence of the unemployed worker.

The figures on employment status from the decennial census are generally comparable with similar data collected in the Current Population Survey. However, some difference may exist because of variations in enumeration and processing techniques.

## FERTILITY

The data on fertility (also referred to as "children ever born") were derived from answers to questionnaire item 20, which was asked of a sample of women 15 years old

and over regardless of marital status. Stillbirths, stepchildren, and adopted children were excluded from the number of children ever born. Ever-married women were instructed to include all children born to them before and during their most recent marriage, children no longer living, and children away from home, as well as children who were still living in the home. Never-married women were instructed to include all children born to them.

Data are most frequently presented in terms of the aggregate number of children ever born to women in the specified category and in terms of the rate per 1,000 women. For purposes of calculating the aggregate, the open-ended response category, "12 or more" is assigned a value of 13.

**Limitation of the Data**—Although the data are assumed to be less complete for out-of-wedlock births than for births occurring within marriage, comparisons of 1980 census data on the fertility of single women with other census sources and administrative records indicate that no significant differences were found between different data sources; that is, 1980 census data on children ever born to single women were complete with no significant understatements of childbearing.

**Comparability**—The wording of the question on children ever born was the same in 1990 as in 1980. In 1970, however, the question on children ever born was asked of all ever-married women but only of never-married women who received self-administered questionnaires. Therefore, rates and numbers of children ever born to single women in 1970 may be understated. Data presented for children ever born to ever-married women are comparable for the 1990 census and all previous censuses containing this question.

## GROUP QUARTERS

All persons not living in households are classified by the Census Bureau as living in group quarters. Two general categories of persons in group quarters are recognized: (1) institutionalized persons and (2) other persons in group quarters (also referred to as "noninstitutional group quarters").

**Institutionalized Persons**—Includes persons under formally authorized, supervised care or custody in institutions at the time of enumeration. Such persons are classified as "patients or inmates" of an institution regardless of the availability of nursing or medical care, the length of stay, or the number of persons in the institution. Generally, institutionalized persons are restricted to the institutional buildings and grounds (or must have passes or escorts to leave) and thus have limited interaction with the surrounding community. Also, they are generally under the care of trained staff who have responsibility for their safekeeping and supervision.

**Type of Institution**—The type of institution was determined as part of census enumeration activities. For institutions which specialize in only one specific type of service, all patients or inmates were given the same classification. For institutions which had multiple types of major services (usually general hospitals and Veterans' Administration hospitals), patients were classified according to selected types of wards. For example, in psychiatric wards of hospitals, patients were classified in "mental (psychiatric) hospitals"; in hospital wards for persons with chronic diseases, patients were classified in "hospitals for the chronically ill." Each patient or inmate was classified in only one type of institution. Institutions include the following types:

**Correctional Institutions**—Includes prisons, Federal detention centers, military stockades and jails, police lockups, halfway houses, local jails, and other confinement facilities, including work farms.

**Prisons**—Where persons convicted of crimes serve their sentences. In some census products, the prisons are classified by two types of control: (1) "Federal" (operated by the Bureau of Prisons of the Department of Justice) and (2) "State." Residents who are criminally insane were classified on the basis of where they resided at the time of enumeration: (1) in institutions (or hospital wards) operated by departments of correction or similar agencies; or (2) in institutions operated by departments of mental health or similar agencies.

**Federal Detention Centers**—Operated by the Immigration and Naturalization Service (INS) and the Bureau of Prisons. These facilities include detention centers used by the Park Police; Bureau of Indian Affairs Detention Centers; INS Centers, such as the INS Federal Alien Detention Facility; INS Processing Centers; and INS Contract Detention Centers used to detain aliens under exclusion or deportation proceedings, as well as those aliens who have not been placed into proceedings, such as custodial required departures; and INS Detention Centers operated within local jails, and State and Federal prisons.

**Military Stockades, Jails**—Operated by military police and used to hold persons awaiting trial or convicted of violating military laws.

**Local Jails and Other Confinement Facilities**—Includes facilities operated by counties and cities that primarily hold persons beyond arraignment, usually for more than 48 hours. Also included in this category are work farms used to hold persons awaiting trial or serving time on relatively short sentences and jails run by private businesses under contract for local governments (but *not* by State governments).

**Police Lockups**—Temporary-holding facilities operated by county and city police that hold persons for 48 hours or less only if they have not been formally charged in court.

**Halfway Houses**—Operated for correctional purposes and include probation and restitution centers, pre-release centers, and community-residential centers.

**Other Types of Correctional Institutions**—Privately operated correctional facilities and correctional facilities specifically for alcohol/drug abuse.

**Nursing Homes**—Comprises a heterogeneous group of places. The majority of patients are elderly, although persons who require nursing care because of chronic physical conditions may be found in these homes regardless of their age. Included in this category are skilled-nursing facilities, intermediate-care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, or long-term care rooms/nursing wings in congregate housing facilities. Also included are nursing, convalescent, and rest homes, such as soldiers', sailors', veterans', and fraternal or religious homes for the aged, with or without nursing care. In some census products, nursing homes are classified by type of ownership as "Federal," "State," "Private not-for-profit," and "Private for profit."

**Mental (Psychiatric) Hospitals**—Includes hospitals or wards for the criminally insane not operated by a prison, and psychiatric wards of general hospitals and veterans' hospitals. Patients receive supervised medical/nursing care from formally-trained staff. In some census products, mental hospitals are classified by type of ownership as "Federal," "State or local," "Private," and "Ownership not known."

**Hospitals for Chronically Ill**—Includes hospitals for patients who require long-term care, including those in military hospitals and wards for the chronically ill located on military bases; or other hospitals or wards for the chronically ill, which include tuberculosis hospitals or wards, wards in general and Veterans' Administration hospitals for the chronically ill, neurological wards, hospices, wards for patients with Hansen's Disease (leprosy) and other incurable diseases, and other unspecified wards for the chronically ill. Patients who had no usual home elsewhere were enumerated as part of the institutional population in the wards of general and military hospitals. Most hospital patients are at the hospital temporarily and were enumerated at their usual place of residence. (For more information, see "Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere.")

**Schools, Hospitals, or Wards for the Mentally Retarded**—Includes those institutions such as wards in hospitals for the mentally retarded, and intermediate-care facilities for the mentally retarded that provide supervised medical/nursing care from formally-trained staff. In some census products, this category is classified by type of ownership as "Federal," "State or local," "Private," and "Ownership not known."

**Schools, Hospitals, or Wards for the Physically Handicapped**—Includes three types of institutions: institutions for the blind, those for the deaf, and orthopedic wards and institutions for the physically handicapped. Institutions for persons with speech problems are classified with "institutions for the deaf." The category "orthopedic wards and institutions for the physically handicapped" includes those institutions providing relatively long-term care to accident victims, and to persons with polio, cerebral palsy, and muscular dystrophy. In some census products, this category is classified by type of ownership as "Public," "Private," and "Ownership not known."

**Hospitals, and Wards for Drug/Alcohol Abuse**—Includes hospitals, and hospital wards in psychiatric and general hospitals. These facilities are equipped medically and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical care from formally-trained staff.

**Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere**—Includes maternity, neonatal, pediatric (including wards for boarder babies), military, and surgical wards of hospitals, and wards for persons with infectious diseases.

**Juvenile Institutions**—Includes homes, schools, and other institutions providing care for children (short- or long-term care). Juvenile institutions include the following types:

**Homes for Abused, Dependent, and Neglected Children**—Includes orphanages and other institutions which provide long-term care (usually more than 30 days) for children. This category is classified in some census products by type of ownership as "Public" and "Private."

**Residential Treatment Centers**—Includes those institutions which primarily serve children who, by clinical diagnosis, are moderately or seriously disturbed emotionally. Also, these institutions provide long-term treatment services, usually supervised or directed by a psychiatrist.

**Training Schools for Juvenile Delinquents**—Includes residential training schools or homes, and industrial schools, camps, or farms for juvenile delinquents.

**Public Training Schools for Juvenile Delinquents**—Usually operated by a State agency (for example, department of welfare, corrections, or a youth authority). Some are operated by county and city governments. These public training schools are specialized institutions serving delinquent children, generally between the ages of 10 and 17 years old, all of whom are committed by the courts.

**Private Training Schools**—Operated under private auspices. Some of the children they serve are committed by the courts as delinquents. Others are referred by parents or social agencies because of delinquent behavior. One difference between private and public training schools is that, by their administrative policy, private schools have control over their selection and intake.

**Detention Centers**—Includes institutions providing short-term care (usually 30 days or less) primarily for delinquent children pending disposition of their cases by a court. This category also covers diagnostic centers. In practice, such institutions may be caring for both delinquent and neglected children pending court disposition.

**Other Persons in Group Quarters (also referred to as "noninstitutional group quarters")**—Includes all persons who live in group quarters other than institutions. Persons who live in the following living quarters are classified as "other persons in group quarters" when there are 10 or more unrelated persons living in the unit; otherwise, these living quarters are classified as housing units.

**Rooming Houses**—Includes persons residing in rooming and boarding houses and living in quarters with 10 or more unrelated persons.

**Group Homes**—Includes "community-based homes" that provide care and supportive services. Such places include homes for the mentally ill, mentally retarded, and physically handicapped; drug/alcohol halfway houses; communes; and maternity homes for unwed mothers.

**Homes for the Mentally Ill**—Includes community-based homes that provide care primarily for the mentally ill. In some data products, this category is classified by type of ownership as "Federal," "State," "Private," and "Ownership not known." Homes which combine treatment of the physically handicapped with treatment of the mentally ill are counted as homes for the mentally ill.

**Homes for the Mentally Retarded**—Includes community-based homes that provide care primarily for the mentally retarded. Homes which combine treatment of the physically handicapped with treatment



of the mentally retarded are counted as homes for the mentally retarded. This category is classified by type of ownership in some census products, as "Federal," "State," "Private," or "Ownership not known."

**Homes for the Physically Handicapped**—Includes community-based homes for the blind, for the deaf, and other community-based homes for the physically handicapped. Persons with speech problems are classified with homes for the deaf. In some census products, this category is classified by type of ownership as "Public," "Private," or "Ownership not known."

**Homes or Halfway Houses for Drug/Alcohol Abuse**—Includes persons with no usual home elsewhere in places that provide community-based care and supportive services to persons suffering from a drug/alcohol addiction and to recovering alcoholics and drug abusers. Places providing community-based care for drug and alcohol abusers include group homes, detoxification centers, quarterway houses (residential treatment facilities that work closely with accredited hospitals), halfway houses, and recovery homes for ambulatory, mentally competent recovering alcoholics and drug abusers who may be re-entering the work force.

**Maternity Homes for Unwed Mothers**—Includes persons with no usual home elsewhere in places that provide domestic care for unwed mothers and their children. These homes may provide social services and post-natal care within the facility, or may make arrangements for women to receive such services in the community. Nursing services are usually available in the facility.

**Other Group Homes**—Includes persons with no usual home elsewhere in communes, foster care homes, and job corps centers with 10 or more unrelated persons. These types of places provide communal living quarters, generally for persons who have formed their own community in which they have common interests and often share or own property jointly.

**Religious Group Quarters**—Includes, primarily, group quarters for nuns teaching in parochial schools and for priests living in rectories. It also includes other convents and monasteries, except those associated with a general hospital or an institution.

**College Quarters Off Campus**—Includes privately-owned rooming and boarding houses off campus, if the place is reserved exclusively for occupancy by college students and if there are 10 or more unrelated persons. In census products, persons in this category are classified as living in a college dormitory.

Persons residing in certain other types of living arrangements are classified as living in "noninstitutional group quarters" regardless of the number of people sharing the unit. These include persons residing in the following types of group quarters:

**College Dormitories**—Includes college students in dormitories (provided the dormitory is restricted to students who do not have their families living with them), fraternity and sorority houses, and on-campus residential quarters used exclusively for those in religious orders who are attending college. Students in privately-owned rooming and boarding houses off campus are also included, if the place is reserved exclusively for occupancy by college-level students and if there are 10 or more unrelated persons.

**Military Quarters**—Includes military personnel living in barracks and dormitories on base, in transient quarters on base for temporary residents (both civilian and military), and on military ships. However, patients in military hospitals receiving treatment for chronic diseases or who had no usual home elsewhere, and persons being held in military stockades were included as part of the institutional population.

**Agriculture Workers' Dormitories**—Includes persons in migratory farm workers' camps on farms, bunkhouses for ranch hands, and other dormitories on farms, such as those on "tree farms."

**Other Workers' Dormitories**—Includes persons in logging camps, construction workers' camps, firehouse dormitories, job-training camps, energy enclaves (Alaska only), and nonfarm migratory workers' camps (for example, workers in mineral and mining camps).

**Emergency Shelters for Homeless Persons (with sleeping facilities) and Visible in Street Locations**—Includes persons enumerated during the "Shelter-and-Street-Night" operation primarily on March 20-21, 1990. Enumerators were instructed not to ask if a person was "homeless." If a person was at one of the locations below on March 20-21, the person was counted as described below. (For more information on the "Shelter-and-Street-Night" operation, see Appendix D, Collection and Processing Procedures.) This category is divided into four classifications:

**Emergency Shelters for Homeless Persons (with sleeping facilities)**—Includes persons who stayed overnight on March 20, 1990, in permanent and temporary emergency housing, missions, hotels/motels, and flophouses charging \$12 or less (excluding taxes) per night; Salvation Army shelters, hotels, and motels used *entirely* for homeless persons regardless of the nightly rate charged; rooms in hotels and motels used *partially* for the homeless;

and similar places known to have persons who have no usual home elsewhere staying overnight. If not shown separately, shelters and group homes that provide temporary sleeping facilities for runaway, neglected, and homeless children are included in this category in data products.

**Shelters for Runaway, Neglected, and Homeless Children**—Includes shelters/group homes which provide temporary sleeping facilities for juveniles.

**Visible in Street Locations**—Includes street blocks and open public locations designated before March 20, 1990, by city and community officials as places where the homeless congregate at night. All persons found at predesignated street sites from 2 a.m. to 4 a.m. and leaving abandoned or boarded-up buildings from 4 a.m. to 8 a.m. on March 21, 1990, were enumerated during "street" enumeration, except persons in uniform such as police and persons engaged in obvious money-making activities other than begging or panhandling. Enumerators were instructed not to ask if a person was "homeless."

This cannot be considered a complete count of all persons living on the streets because those who were so well hidden that local people did not know where to find them were likely to have been missed as were persons moving about or in places not identified by local officials. It is also possible that persons with homes could have been included in the count of "visible in street locations" if they were present when the enumerator did the enumeration of a particular block.

Predesignated street sites include street corners, parks, bridges, persons emerging from abandoned and boarded-up buildings, noncommercial campsites (tent cities), all-night movie theaters, all-night restaurants, emergency hospital waiting rooms, train stations, airports, bus depots, and subway stations.

**Shelters for Abused Women (Shelters Against Domestic Violence or Family Crisis Centers)**—Includes community-based homes or shelters that provide domiciliary care for women who have sought shelter from family violence and who may have been physically abused. Most shelters also provide care for children of abused women. These shelters may provide social services, meals, psychiatric treatment, and counseling. In some census products, "shelters for abused women" are included in the category "other noninstitutional group quarters."

**Dormitories for Nurses and Interns in General and Military Hospitals**—Includes group quarters for nurses and other staff members. It excludes patients.

**Crews of Maritime Vessels**—Includes officers, crew members, and passengers of maritime U.S. flag vessels. All ocean-going and Great Lakes ships are included.

**Staff Residents of Institutions**—Includes staff residing in group quarters on institutional grounds who provide formally-authorized, supervised care or custody for the institutionalized population.

**Other Nonhousehold Living Situations**—Includes persons with no usual home elsewhere enumerated during transient or "T-Night" enumeration at YMCA's, YWCA's, youth hostels, commercial and government-run campgrounds, campgrounds at racetracks, fairs, and carnivals, and similar transient sites.

**Living Quarters for Victims of Natural Disasters**—Includes living quarters for persons temporarily displaced by natural disasters.

**Limitation of the Data**—Two types of errors can occur in the classification of "types of group quarters":

1. **Misclassification of Group Quarters**—During the 1990 Special Place Prelist operation, the enumerator determined the type of group quarters associated with each special place in their assignment. The enumerator used the Alphabetical Group Quarters Code List and Index to the Alphabetical Group Quarters Code List to assign a two-digit code number followed by either an "I," for institutional, or an "N," for noninstitutional to each group quarters. In 1990, unacceptable group quarter codes were edited. (For more information on editing of unacceptable data, see Appendix C, Accuracy of the Data.)
2. **No Classification (unknowns)**—The imputation rate for type of institution was higher in 1980 (23.5 percent) than in 1970 (3.3 percent). Improvements were made to the 1990 Alphabetical Group Quarters Code List; that is, the inclusion of more group quarters categories and an "Index to the Alphabetical Group Quarters Code List." (For more information on the allocation rates for Type of Institution, see the allocation rates in 1990 CP-1, *General Population Characteristics*.)

In previous censuses, allocation rates for demographic characteristics (such as age, sex, race, and marital status) of the institutional population were similar to those for the total population. The allocation rates for sample characteristics such as school enrollment, highest grade completed, income, and veteran status for the institutional and noninstitutional group quarters population have been substantially higher than the population in households at least as far back as the 1960 census. The data, however, have historically presented a reasonable picture of the institutional and noninstitutional group quarters population.

**Shelter and Street Night (S-Night)**—For the 1990 census "Shelter-and-Street-Night" operation, persons well hidden, moving about, or in locations enumerators did not visit were likely to be missed. The number of people missed will never be known; thus, the 1990 census cannot be considered to include a definitive count of America's total homeless population. It does, however, give an idea of relative differences among areas of the country. Other components were counted as part of regular census procedures.

The count of persons in shelters and visible on the street could have been affected by many factors. How much the factors affected the count can never be answered definitively, but some elements include:

1. How well enumerators were trained and how well they followed procedures.
2. How well the list of shelter and street locations given to the Census Bureau by the local government reflected the actual places that homeless persons stay at night.
3. Cities were encouraged to open temporary shelters for census night, and many did that and actively encouraged people to enter the shelters. Thus, people who may have been on the street otherwise were in shelters the night of March 20, so that the ratio of shelter-to-street population could be different than usual.
4. The weather, which was unusually cold in some parts of the country, could affect how likely people were to seek emergency shelter or to be more hidden than usual if they stayed outdoors.
5. The media occasionally interfered with the ability to do the count.
6. How homeless people perceived the census and whether they wanted to be counted or feared the census and hid from it.

The Census Bureau conducted two assessments of Shelter and Street Night: (1) the quality of the lists of shelters used for the Shelter-and-Street-Night operation, and (2) how well procedures were followed by census-takers for the street count in parts of five cities (Chicago, Los Angeles, New Orleans, New York, and Phoenix). Information about these two assessments is available from the Chief, Center for Survey Methods Research, Bureau of the Census, Washington, DC 20233.

**Comparability**—For the 1990 census, the definition of institutionalized persons was revised so that the definition of "care" only includes persons under organized medical or formally-authorized, supervised care or custody. As a result of this change to the institutional definition, maternity homes are classified as noninstitutional rather than institutional group quarters as in

previous censuses. The following types of other group quarters are classified as institutional rather than non-institutional group quarters: "halfway houses (operated for correctional purposes)" and "wards in general and military hospitals for patients who have no usual home elsewhere," which includes maternity, neonatal, pediatric, military, and surgical wards of hospitals, other-purpose wards of hospitals, and wards for infectious diseases. These changes should not significantly affect the comparability of data with earlier censuses because of the relatively small number of persons involved.

As in 1980, 10 or more unrelated persons living together were classified as living in noninstitutional group quarters. In 1970, the criteria was six or more unrelated persons.

Several changes also have occurred in the identification of specific types of group quarters. For the first time, the 1990 census identifies separately the following types of correctional institutions: persons in halfway houses (operated for correctional purposes), military stockades and jails, and police lockups. In 1990, tuberculosis hospitals or wards are included with hospitals for the chronically ill; in 1980, they were shown separately. For 1990, the noninstitutional group quarters category, "Group homes" is further classified as: group homes for drug/alcohol abuse; maternity homes (for unwed mothers), group homes for the mentally ill, group homes for the mentally retarded, and group homes for the physically handicapped. Persons living in communes, foster-care homes, and job corps centers are classified with "Other group homes" only if 10 or more unrelated persons share the unit; otherwise, they are classified as housing units.

In 1990, workers' dormitories were classified as group quarters regardless of the number of persons sharing the dorm. In 1980, 10 or more unrelated persons had to share the dorm for it to be classified as a group quarters. In 1960, data on persons in military barracks were shown only for men. In subsequent censuses, they include both men and women.

In 1990 census data products, the phrase "inmates of institutions" was changed to "institutionalized persons." Also, persons living in noninstitutional group quarters were referred to as "other persons in group quarters," and the phrase "staff residents" was used for staff living in institutions.

In 1990, there are additional institutional categories and noninstitutional group quarters categories compared with the 1980 census. The institutional categories added include "hospitals and wards for drug/alcohol abuse" and "military hospitals for the chronically ill." The noninstitutional group quarters categories added include emergency shelters for homeless persons; shelters for runaway, neglected, and homeless children; shelters for abused women; and visible-in-street locations. Each of these noninstitutional group quarters categories was enumerated on March 20-21, 1990,

during the "Shelter-and-Street-Night" operation. (For more information on the "Shelter-and-Street-Night" operation, see Appendix D, Collection and Processing Procedures.)

## HISPANIC ORIGIN

The data on Spanish/Hispanic origin were derived from answers to questionnaire item 7, which was asked of all persons. Persons of Hispanic origin are those who classified themselves in one of the specific Hispanic origin categories listed on the questionnaire—"Mexican," "Puerto Rican," or "Cuban"—as well as those who indicated that they were of "other Spanish/Hispanic" origin. Persons of "Other Spanish/Hispanic" origin are those whose origins are from Spain, the Spanish-speaking countries of Central or South America, or the Dominican Republic, or they are persons of Hispanic origin identifying themselves generally as Spanish, Spanish-American, Hispanic, Hispano, Latino, and so on. Write-in responses to the "other Spanish/Hispanic" category were coded only for sample data.

Origin can be viewed as the ancestry, nationality group, lineage, or country of birth of the person or the person's parents or ancestors before their arrival in the United States. Persons of Hispanic origin may be of any race.

Some tabulations are shown by the Hispanic origin of the householder. In all cases where households, families, or occupied housing units are classified by Hispanic origin, the Hispanic origin of the householder is used. (See the discussion of householder under "Household Type and Relationship.")

During direct interviews conducted by enumerators, if a person could not provide a single origin response, he or she was asked to select, based on self-identification, the group which best described his or her origin or descent. If a person could not provide a single group, the origin of the person's mother was used. If a single group could not be provided for the person's mother, the first origin reported by the person was used.

If any household member failed to respond to the Spanish/Hispanic origin question, a response was assigned by the computer according to the reported entries of other household members by using specific rules of precedence of household relationship. In the processing of sample questionnaires, responses to other questions on the questionnaire, such as ancestry and place of birth, were used to assign an origin before any reference was made to the origin reported by other household members. If an origin was not entered for any household member, an origin was assigned from another household according to the race of the householder. This procedure is a variation of the general imputation process described in Appendix C, Accuracy of the Data.

**Comparability**—There may be differences between the total Hispanic origin population based on 100-percent tabulations and sample tabulations. Such differences

are the result of sampling variability, nonsampling error, and more extensive edit procedures for the Spanish/Hispanic origin item on the sample questionnaires. (For more information on sampling variability and nonsampling error, see Appendix C, Accuracy of the Data.)

The 1990 data on Hispanic origin are generally comparable with those for the 1980 census. However, there are some differences in the format of the Hispanic origin question between the two censuses. For 1990, the word "descent" was deleted from the 1980 wording. In addition, the term "Mexican-Amer." used in 1980 was shortened further to "Mexican-Am." to reduce misreporting (of "American") in this category detected in the 1980 census. Finally, the 1990 question allowed those who reported as "other Spanish/Hispanic" to write in their specific Hispanic origin group.

Misreporting in the "Mexican-Amer." category of the 1980 census item on Spanish/Hispanic origin may affect the comparability of 1980 and 1990 census data for persons of Hispanic origin for certain areas of the country. An evaluation of the 1980 census item on Spanish/Hispanic origin indicated that there was misreporting in the Mexican origin category by White and Black persons in certain areas. The study results showed evidence that the misreporting occurred in the South (excluding Texas), the Northeast (excluding the New York City area), and a few States in the Midwest Region. Also, results based on available data suggest that the impact of possible misreporting of Mexican origin in the 1980 census was severe in those portions of the above-mentioned regions where the Hispanic origin population was generally sparse. However, national 1980 census data on the Mexican origin population or total Hispanic origin population at the national level was not seriously affected by the reporting problem. (For a more detailed discussion of the evaluation of the 1980 census Spanish/Hispanic origin item, see the 1980 census Supplementary Reports.)

The 1990 and 1980 census data on the Hispanic population are not directly comparable with 1970 Spanish origin data because of a number of factors: (1) overall improvements in the 1980 and 1990 censuses, (2) better coverage of the population, (3) improved question designs, and (4) an effective public relations campaign by the Census Bureau with the assistance of national and community ethnic groups.

Specific changes in question design between the 1980 and 1970 censuses included the placement of the category "No, not Spanish/Hispanic" as the first category in that question. (The corresponding category appeared last in the 1970 question.) Also, the 1970 category "Central or South American" was deleted because in 1970 some respondents misinterpreted the category; furthermore, the designations "Mexican-American" and "Chicano" were added to the Spanish/Hispanic origin question in 1980. In the 1970 census, the question on Spanish origin was asked of only a 5-percent sample of the population.

## HOUSEHOLD TYPE AND RELATIONSHIP

### Household

A household includes all the persons who occupy a housing unit. A housing unit is a house, an apartment, a mobile home, a group of rooms, or a single room that is occupied (or if vacant, is intended for occupancy) as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from the outside of the building or through a common hall. The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements.

In 100-percent tabulations, the count of households or householders always equals the count of occupied housing units. In sample tabulations, the numbers may differ as a result of the weighting process.

**Persons Per Household**—A measure obtained by dividing the number of persons in households by the number of households (or householders). In cases where persons in households are cross-classified by race or Hispanic origin, persons in the household are classified by the race or Hispanic origin of the householder rather than the race or Hispanic origin of each individual.

### Relationship to Householder

**Householder**—The data on relationship to householder were derived from answers to questionnaire item 2, which was asked of all persons in housing units. One person in each household is designated as the householder. In most cases, this is the person, or one of the persons, in whose name the home is owned, being bought, or rented and who is listed in column 1 of the census questionnaire. If there is no such person in the household, any adult household member 15 years old and over could be designated as the householder.

Households are classified by type according to the sex of the householder and the presence of relatives. Two types of householders are distinguished: a family householder and a nonfamily householder. A family householder is a householder living with one or more persons related to him or her by birth, marriage, or adoption. The householder and all persons in the household related to him or her are family members. A nonfamily householder is a householder living alone or with nonrelatives only.

**Spouse**—Includes a person married to and living with a householder. This category includes persons in formal marriages, as well as persons in common-law marriages.

The number of spouses is equal to the number of "married-couple families" or "married-couple households" in 100-percent tabulations. The number of spouses, however, is generally less than half of the number of "married persons with spouse present." In sample tabulations, since more than one married couple can live in a household, but only spouses of householders are specifically identified as "spouse." For sample tabulations, the number of "married persons with spouse present" includes married-couple subfamilies and married-couple families.

**Child**—Includes a son or daughter by birth, a stepchild, or adopted child of the householder, regardless of the child's age or marital status. The category excludes sons-in-law, daughters-in-law, and foster children.

**Natural-Born or Adopted Son/Daughter**—A son or daughter of the householder by birth, regardless of the age of the child. Also, this category includes sons or daughters of the householder by legal adoption, regardless of the age of the child. If the stepson/stepdaughter of the householder has been legally adopted by the householder, the child is still classified as a stepchild.

**Stepson/Stepdaughter**—A son or daughter of the householder through marriage but not by birth, regardless of the age of the child. If the stepson/stepdaughter of the householder has been legally adopted by the householder, the child is still classified as a stepchild.

**Own Child**—A never-married child under 18 years who is a son or daughter by birth, a stepchild, or an adopted child of the householder. In certain tabulations, own children are further classified as living with two parents or with one parent only. Own children of the householder living with two parents are by definition found only in married-couple families.

In a subfamily, an "own child" is a never-married child under 18 years of age who is a son, daughter, stepchild, or an adopted child of a mother in a mother-child subfamily, a father in a father-child subfamily, or either spouse in a married-couple subfamily.

"Related children" in a family include own children and all other persons under 18 years of age in the household, regardless of marital status, who are related to the householder, except the spouse of the householder. Foster children are not included since they are not related to the householder.

**Other Relatives**—In tabulations, includes any household member related to the householder by birth, marriage, or adoption, but not included specifically in another relationship category. In certain detailed tabulations, the following categories may be shown:

**Grandchild**—The grandson or granddaughter of the householder.

**Brother/Sister**—The brother or sister of the householder, including stepbrothers, stepsisters, and brothers and sisters by adoption. Brothers-in-law and sisters-in-law are included in the "Other relative" category on the questionnaire.

**Parent**—The father or mother of the householder, including a stepparent or adoptive parent. Fathers-in-law and mothers-in-law are included in the "Other relative" category on the questionnaire.

**Other Relatives**—Anyone not listed in a reported category above who is related to the householder by birth, marriage, or adoption (brother-in-law, grandparent, nephew, aunt, mother-in-law, daughter-in-law, cousin, and so forth).

**Nonrelatives**—Includes any household member, including foster children not related to the householder by birth, marriage, or adoption. The following categories may be presented in more detailed tabulations:

**Roomer, Boarder, or Foster Child**—Roomer, boarder, lodger, and foster children or foster adults of the householder.

**Housemate or Roommate**—A person who is not related to the householder and who shares living quarters primarily in order to share expenses.

**Unmarried Partner**—A person who is not related to the householder, who shares living quarters, and who has a close personal relationship with the householder.

**Other Nonrelatives**—A person who is not related by birth, marriage, or adoption to the householder and who is not described by the categories given above.

When relationship is not reported for an individual, it is imputed according to the responses for age, sex, and marital status for that person while maintaining consistency with responses for other individuals in the household. (For more information on imputation, see Appendix C, Accuracy of the Data.)

## Unrelated Individual

An unrelated individual is: (1) a householder living alone or with nonrelatives only; (2) a household member who is not related to the householder, or (3) a person living in group quarters who is not an inmate of an institution.

## Family Type

A family consists of a householder and one or more other persons living in the same household who are related to the householder by birth, marriage, or adoption. All persons in a household who are related to the householder are regarded as members of his or her family. A household can contain only one family for purposes of census tabulations. Not all households contain families since a household may comprise a group of unrelated persons or one person living alone.

Families are classified by type as either a "married-couple family" or "other family" according to the sex of the householder and the presence of relatives. The data on family type are based on answers to questions on sex and relationship which were asked on a 100-percent basis.

**Married-Couple Family**—A family in which the householder and his or her spouse are enumerated as members of the same household.

### Other Family:

**Male Householder, No Wife Present**—A family with a male householder and no spouse of householder present.

**Female Householder, No Husband Present**—A family with a female householder and no spouse of householder present.

**Persons Per Family**—A measure obtained by dividing the number of persons in families by the total number of families (or family householders). In cases where the measure, "persons in family" or "persons per family" are cross-tabulated by race or Hispanic origin, the race or Hispanic origin refers to the householder rather than the race or Hispanic origin of each individual.

## Subfamily

A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without never-married children under 18 years old, or one parent with one or more never-married children under 18 years old, living in a household and related to, but not including, either the householder or the householder's spouse. The number of subfamilies is not included in the count of families, since subfamily members are counted as part of the householder's family.

Subfamilies are defined during processing of sample data. In selected tabulations, subfamilies are further classified by type: married-couple subfamilies, with or without own children; mother-child subfamilies; and father-child subfamilies.

Lone parents include people maintaining either one-parent families or one-parent subfamilies. Married couples include husbands and wives in both married-couple families and married-couple subfamilies.

### Unmarried-Partner Household

An unmarried-partner household is a household other than a "married-couple household" that includes a householder and an "unmarried partner." An "unmarried partner" can be of the same sex or of the opposite sex of the householder. An "unmarried partner" in an "unmarried-partner household" is an adult who is unrelated to the householder, but shares living quarters and has a close personal relationship with the householder.

### Unmarried-Couple Household

An unmarried-couple household is composed of two unrelated adults of the opposite sex (one of whom is the householder) who share a housing unit with or without the presence of children under 15 years old.

### Foster Children

Foster children are nonrelatives of the householder and are included in the category, "Roomer, boarder, or foster child" on the questionnaire. Foster children are identified as persons under 18 years old and living in households that have no nonrelatives 18 years old and over (who might be parents of the nonrelatives under 18 years old).

### Stepfamily

A stepfamily is a "married-couple family" with at least one stepchild of the householder present, where the householder is the husband.

**Comparability**—The 1990 definition of a household is the same as that used in 1980. The 1980 relationship category "Son/daughter" has been replaced by two categories, "Natural-born or adopted son/daughter" and "Stepson/stepdaughter." "Grandchild" has been added as a separate category. The 1980 nonrelative categories: "Roomer, boarder" and "Partner, roommate" have been replaced by the categories "Roomer, boarder, or foster child," "Housemate, roommate," and "Unmarried partner." The 1980 nonrelative category "Paid employee" has been dropped.

### INCOME IN 1989

The data on income in 1989 were derived from answers to questionnaire items 32 and 33. Information on money income received in the calendar year 1989 was requested from persons 15 years old and over.

"Total income" is the algebraic sum of the amounts reported separately for wage or salary income; net nonfarm self-employment income; net farm self-employment income; interest, dividend, or net rental or royalty income; Social Security or railroad retirement income; public assistance or welfare income; retirement or disability income; and all other income. "Earnings" is defined as the algebraic sum of wage or salary income and net income from farm and nonfarm self-employment. "Earnings" represent the amount of income received regularly before deductions for personal income taxes, Social Security, bond purchases, union dues, medicare deductions, etc.

Receipts from the following sources are not included as income: money received from the sale of property (unless the recipient was engaged in the business of selling such property); the value of income "in kind" from food stamps, public housing subsidies, medical care, employer contributions for persons, etc.; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

### Income Type in 1989

The eight types of income reported in the census are defined as follows:

1. **Wage or Salary Income**—Includes total money earnings received for work performed as an employee during the calendar year 1989. It includes wages, salary, Armed Forces pay, commissions, tips, piece-rate payments, and cash bonuses earned before deductions were made for taxes, bonds, pensions, union dues, etc.
2. **Nonfarm Self-Employment Income**—Includes net money income (gross receipts minus expenses) from one's own business, professional enterprise, or partnership. Gross receipts include the value of all goods sold and services rendered. Expenses includes costs of goods purchased, rent, heat, light, power, depreciation charges, wages and salaries paid, business taxes (not personal income taxes), etc.
3. **Farm Self-Employment Income**—Includes net money income (gross receipts minus operating expenses) from the operation of a farm by a person on his or her own account, as an owner, renter, or sharecropper. Gross receipts include the value of all products sold, government farm programs, money received from the rental of farm equipment to others, and incidental receipts from the sale of wood, sand, gravel, etc. Operating expenses include cost of feed, fertilizer, seed, and other farming supplies, cash wages paid to farmhands, depreciation charges, cash rent, interest on farm mortgages, farm building

repairs, farm taxes (not State and Federal personal income taxes), etc. The value of fuel, food, or other farm products used for family living is not included as part of net income.

4. **Interest, Dividend, or Net Rental Income**—Includes interest on savings or bonds, dividends from stockholdings or membership in associations, net income from rental of property to others and receipts from boarders or lodgers, net royalties, and periodic payments from an estate or trust fund.
5. **Social Security Income**—Includes Social Security pensions and survivors benefits and permanent disability insurance payments made by the Social Security Administration prior to deductions for medical insurance, and railroad retirement insurance checks from the U.S. Government. Medicare reimbursements are not included.
6. **Public Assistance Income**—Includes: (1) supplementary security income payments made by Federal or State welfare agencies to low income persons who are aged (65 years old or over), blind, or disabled; (2) aid to families with dependent children, and (3) general assistance. Separate payments received for hospital or other medical care (vendor payments) are excluded from this item.
7. **Retirement or Disability Income**—Includes: (1) retirement pensions and survivor benefits from a former employer, labor union, or Federal, State, county, or other governmental agency; (2) disability income from sources such as worker's compensation; companies or unions; Federal, State, or local government; and the U.S. military; (3) periodic receipts from annuities and insurance; and (4) regular income from IRA and KEOGH plans.
8. **All Other Income**—Includes unemployment compensation, Veterans Administration (VA) payments, alimony and child support, contributions received periodically from persons not living in the household, military family allotments, net gambling winnings, and other kinds of periodic income other than earnings.

**Income of Households**—Includes the income of the householder and all other persons 15 years old and over in the household, whether related to the householder or not. Because many households consist of only one person, average household income is usually less than average family income.

**Income of Families and Persons**—In compiling statistics on family income, the incomes of all members 15 years old and over in each family are summed and treated as a single amount. However, for persons 15 years old and over, the total amounts of their own

incomes are used. Although the income statistics covered the calendar year 1989, the characteristics of persons and the composition of families refer to the time of enumeration (April 1990). Thus, the income of the family does not include amounts received by persons who were members of the family during all or part of the calendar year 1989 if these persons no longer resided with the family at the time of enumeration. Yet, family income amounts reported by related persons who did not reside with the family during 1989 but who were members of the family at the time of enumeration are included. However, the composition of most families was the same during 1989 as in April 1990.

**Median Income**—The median divides the income distribution into two equal parts, one having incomes above the median and the other having incomes below the median. For households and families, the median income is based on the distribution of the total number of units including those with no income. The median for persons is based on persons with income. The median income values for all households, families, and persons are computed on the basis of more detailed income intervals than shown in most tabulations. Median household or family income figures of \$50,000 or less are calculated using linear interpolation. For persons, corresponding median values of \$40,000 or less are also computed using linear interpolation. All other median income amounts are derived through Pareto interpolation. (For more information on medians and interpolation, see the discussion under "Derived Measures.")

**Mean Income**—This is the amount obtained by dividing the total income of a particular statistical universe by the number of units in that universe. Thus, mean household income is obtained by dividing total household income by the total number of households. For the various types of income the means are based on households having those types of income. "Per capita income" is the mean income computed for every man, woman, and child in a particular group. It is derived by dividing the total income of a particular group by the total population in that group.

Care should be exercised in using and interpreting mean income values for small subgroups of the population. Because the mean is influenced strongly by extreme values in the distribution, it is especially susceptible to the effects of sampling variability, misreporting, and processing errors. The median, which is not affected by extreme values, is, therefore, a better measure than the mean when the population base is small. The mean, nevertheless, is shown in some data products for most small subgroups because, when weighted according to the number of cases, the means can be added to obtained summary measures for areas and groups other than those shown in census tabulations.



**Limitation of the Data**—Since questionnaire entries for income frequently are based on memory and not on records, many persons tended to forget minor or irregular sources of income and, therefore, underreport their income. Underreporting tends to be more pronounced for income sources that are not derived from earnings, such as Social Security, public assistance, or from interest, dividends, and net rental income.

There are errors of reporting due to the misunderstanding of the income questions such as reporting gross rather than net dollar amounts for the two questions on net self-employment income, which resulted in an overstatement of these items. Another common error is the reporting of identical dollar amounts in two of the eight type of income items where a respondent with only one source of income assumed that the second amount should be entered to represent total income. Such instances of overreporting had an impact on the level of mean nonfarm or farm self-employment income and mean total income published for the various geographical subdivisions of the State.

Extensive computer editing procedures were instituted in the data processing operation to reduce some of these reporting errors and to improve the accuracy of the income data. These procedures corrected various reporting deficiencies and improved the consistency of reported income items associated with work experience and information on occupation and class of worker. For example, if persons reported they were self-employed on their own farm, not incorporated, but had reported wage and salary earnings only, the latter amount was shifted to net farm self-employment income. Also, if any respondent reported total income only, the amount was generally assigned to one of the type of income items according to responses to the work experience and class-of-worker questions. Another type of problem involved nonreporting of income data. Where income information was not reported, procedures were devised to impute appropriate values with either no income or positive or negative dollar amounts for the missing entries. (For more information on imputation, see Appendix C, Accuracy of the Data.)

In income tabulations for households and families, the lowest income group (e.g., less than \$5,000) includes units that were classified as having no 1989 income. Many of these were living on income "in kind," savings, or gifts, were newly created families, or families in which the sole breadwinner had recently died or left the household. However, many of the households and families who reported no income probably had some money income which was not recorded in the census.

The income data presented in the tabulations covers money income only. The fact that many farm families receive an important part of their income in the form of "free" housing and goods produced and consumed on the farm rather than in money should be taken into consideration in comparing the income of farm and nonfarm residents. Nonmoney income such as business

expense accounts, use of business transportation and facilities, or partial compensation by business for medical and educational expenses was also received by some nonfarm residents. Many low income families also receive income "in kind" from public welfare programs. In comparing income data for 1989 with earlier years, it should be noted that an increase or decrease in money income does not necessarily represent a comparable change in real income, unless adjustments for changes in prices are made.

**Comparability**—The income data collected in the 1980 and 1970 censuses are similar to the 1990 census data, but there are variations in the detail of the questions. In 1980, income information for 1979 was collected from persons in approximately 19 percent of all housing units and group quarters. Each person was required to report:

- Wage or salary income
- Net nonfarm self-employment income
- Net farm self-employment income
- Interest, dividend, or net rental or royalty income
- Social Security income
- Public assistance income
- Income from all other sources

Between the 1980 and 1990 censuses, there were minor differences in the processing of the data. In both censuses, all persons with missing values in one or more of the detailed type of income items and total income were designated as allocated. Each missing entry was imputed either as a "no" or as a dollar amount. If total income was reported and one or more of the type of income fields was not answered, then the entry in total income generally was assigned to one of the income types according to the socioeconomic characteristics of the income recipient. This person was designated as unallocated.

In 1980 and 1990, all nonrespondents with income not reported (whether heads of households or other persons) were assigned the reported income of persons with similar characteristics. (For more information on imputation, see Appendix C, "Accuracy of the Data.")

There was a difference in the method of computer derivation of aggregate income from individual amounts between the two census processing operations. In the 1980 census, income amounts less than \$100,000 were coded in tens of dollars, and amounts of \$100,000 or more were coded in thousands of dollars; \$5 was added to each amount coded in tens of dollars and \$500 to each amount coded in thousands of dollars. Entries of \$999,000 or more were treated as \$999,500 and losses of \$9,999 or more were treated as minus \$9,999. In the 1990 census, income amounts less than \$999,999 were

keyed in dollars. Amounts of \$999,999 or more were treated as \$999,999 and losses of \$9,999 or more were treated as minus \$9,999 in all of the computer derivations of aggregate income.

In 1970, information on income in 1969 was obtained from all members in every fifth housing unit and small group quarters (less than 15 persons) and every fifth person in all other group quarters. Each person was required to report:

- Wage or salary income
- Net nonfarm self-employment income
- Net farm self-employment income
- Social Security or Railroad Retirement
- Public assistance or welfare payments
- Income from all other sources

If a person reported a dollar amount in wage or salary, net nonfarm self-employment income, or net farm self-employment income, the person was considered as unallocated only if no further dollar amounts were imputed for any additional missing entries.

In 1980, data on income were obtained from all members in every fourth housing unit and from every fourth person 14 years old and over living in group quarters. Each person was required to report wage or salary income, net self-employment income, and income other than earnings received in 1979. An assumption was made in the editing process that no other type of income was received by a person who reported the receipt of either wage and salary income or self-employment but who had failed to report the receipt of other money income.

For several reasons, the income data shown in census tabulations are not directly comparable with those that may be obtained from statistical summaries of income tax returns. Income, as defined for Federal tax purposes, differs somewhat from the Census Bureau concept. Moreover, the coverage of income tax statistics is different because of the exemptions of persons having small amounts of income and the inclusion of net capital gains in tax returns. Furthermore, members of some families file separate returns and others file joint returns; consequently, the income reporting unit is not consistently either a family or a person.

The earnings data shown in census tabulations are not directly comparable with earnings records of the Social Security Administration. The earnings record data for 1989 excluded the earnings of most civilian government employees, some employees of nonprofit organizations, workers covered by the Railroad Retirement Act, and persons not covered by the program because of insufficient earnings. Furthermore, earnings received from any one employer in excess of \$48,000 in 1989 are not covered by earnings records. Finally, because census data are obtained from household

questionnaires, they may differ from Social Security Administration earnings record data, which are based upon employers' reports and the Federal income tax returns of self-employed persons.

The Bureau of Economic Analysis (BEA) of the Department of Commerce publishes annual data on aggregate and per-capita personal income received by the population for States, metropolitan areas, and selected counties. Aggregate income estimates based on the income statistics shown in census products usually would be less than those shown in the BEA income series for several reasons. The Census Bureau data are obtained directly from households, whereas the BEA income series is estimated largely on the basis of data from administrative records of business and governmental sources. Moreover, the definitions of income are different. The BEA income series includes some items not included in the income data shown in census publications, such as income "in kind," income received by nonprofit institutions, the value of services of banks and other financial intermediaries rendered to persons without the assessment of specific charges, Medicare payments, and the income of persons who died or emigrated prior to April 1, 1990. On the other hand, the census income data include contributions for support received from persons not residing in the same household and employer contributions for social insurance.

## **INDUSTRY, OCCUPATION, AND CLASS OF WORKER**

The data on industry, occupation, and class of worker were derived from answers to questionnaire items 28, 29, and 30 respectively. These questions were asked of a sample of persons. Information on industry relates to the kind of business conducted by a person's employing organization; occupation describes the kind of work the person does on the job.

For employed persons, the data refer to the person's job during the reference week. For those who worked at two or more jobs, the data refer to the job at which the person worked the greatest number of hours. For unemployed persons, the data refer to their last job. The industry and occupation statistics are derived from the detailed classification systems developed for the 1990 census as described below. The *Classified Index of Industries and Occupations* provided additional information on the industry and occupation classification systems.

Respondents provided the data for the tabulations by writing on the questionnaires descriptions of their industry and occupation. These descriptions were keyed and passed through automated coding software which assigned a portion of the written entries to categories in the classification system. The automated system assigned codes to 59 percent of the industry entries and 38 percent of the occupation entries.

Those cases not coded by the computer were referred to clerical staff in the Census Bureau's Kansas City processing office for coding. The clerical staff converted the written questionnaire descriptions to codes by comparing these descriptions to entries in the *Alphabetical Index of Industries and Occupations*. For the industry code, these coders also referred to an Employer Name List (formerly called Company Name List). This list, prepared from the Standard Statistical Establishment List developed by the Census Bureau for the economic censuses and surveys, contained the names of business establishments and their Standard Industrial Classification (SIC) codes converted to population census equivalents. This list facilitated coding and maintained industrial classification comparability.

## Industry

The industry classification system developed for the 1990 census consists of 235 categories for employed persons, classified into 13 major industry groups. Since 1940, the industrial classification has been based on the Standard Industrial Classification Manual (SIC). The 1990 census classification was developed from the 1987 SIC published by the Office of Management and Budget Executive Office of the President.

The SIC was designed primarily to classify establishments by the type of industrial activity in which they were engaged. However, census data, which were collected from households, differ in detail and nature from those obtained from establishment surveys. Therefore, the census classification systems, while defined in SIC terms, cannot reflect the full detail in all categories. There are several levels of industrial classification found in census products. For example, the 1990 CP-2, *Social and Economic Characteristics* report includes 41 unique industrial categories, while the 1990 Summary Tape File 4 (STF 4) presents 72 categories.

## Occupation

The occupational classification system developed for the 1990 census consists of 500 specific occupational categories for employed persons arranged into 6 summary and 13 major occupational groups. This classification was developed to be consistent with the Standard Occupational Classification (SOC) Manual: 1980, published by the Office of Federal Statistical Policy and Standards, U.S. Department of Commerce. Tabulations with occupation as the primary characteristic present several levels of occupational detail. The most detailed tabulations are shown in a special 1990 subject report and tape files on occupation. These products contain all 500 occupational categories plus industry or class of worker subgroupings of occupational categories.

Some occupation groups are related closely to certain industries. Operators of transportation equipment, farm operators and workers, and private household

workers account for major portions of their respective industries of transportation, agriculture, and private households. However, the industry categories include persons in other occupations. For example, persons employed in agriculture include truck drivers and bookkeepers; persons employed in the transportation industry include mechanics, freight handlers, and payroll clerks; and persons employed in the private household industry include occupations such as chauffeur, gardener, and secretary.

## Class of Worker

The data on class of worker were derived from answers to questionnaire item 30. The information on class of worker refers to the same job as a respondent's industry and occupation and categorizes persons according to the type of ownership of the employing organization. The class of worker categories are defined as follows:

**Private Wage and Salary Workers**—Includes persons who worked for wages, salary, commission, tips, pay-in-kind, or piece rates for a private for-profit employer or a private not-for-profit, tax-exempt or charitable organization. Self-employed persons whose business was incorporated are included with private wage and salary workers because they are paid employees of their own companies. Some tabulations present data separately for these subcategories: "For profit," "Not for profit," and "Own business incorporated."

Employees of foreign governments, the United Nations, or other formal international organizations were classified as "Private-not-for-profit."

**Government Workers**—Includes persons who were employees of any local, State, or Federal governmental unit, regardless of the activity of the particular agency. For some tabulations, the data were presented separately for the three levels of government.

**Self-Employed Workers**—Includes persons who worked for profit or fees in their own unincorporated business, profession, or trade, or who operated a farm.

**Unpaid Family Workers**—Includes persons who worked 15 hours or more without pay in a business or on a farm operated by a relative.

**Salaried/ Self-Employed**—In tabulations that categorize persons as either salaried or self-employed, the salaried category includes private and government wage and salary workers; self-employed includes self-employed persons and unpaid family workers.

The industry category, "Public administration," is limited to regular government functions such as legislative, judicial, administrative, and regulatory activities of

governments. Other government organizations such as schools, hospitals, liquor stores, and bus lines are classified by industry according to the activity in which they are engaged. On the other hand, the class of worker government categories include all government workers.

Occasionally respondents supplied industry, occupation, or class of worker descriptions which were not sufficiently specific for precise classification or did not report on these items at all. Some of these cases were corrected through the field editing process and during the coding and tabulation operations. In the coding operation, certain types of incomplete entries were corrected using the *Alphabetical Index of Industries and Occupations*. For example, it was possible in certain situations to assign an industry code based on the occupation reported.

Following the coding operations, there was a computer edit and an allocation process. The edit first determined whether a respondent was in the universe which required an industry and occupation code. The codes for the three items (industry, occupation, and class of worker) were checked to ensure they were valid and were edited for their relation to each other. Invalid and inconsistent codes were either blanked or changed to a consistent code.

If one or more of the three codes were blank after the edit, a code was assigned from a "similar" person based on other items such as age, sex, education, farm or nonfarm residence, and weeks worked. If all the labor force and income data also were blank, all these economic items were assigned from one other person who provided all the necessary data.

**Comparability**—Comparability of industry and occupation data was affected by a number of factors, primarily the systems used to classify the questionnaire responses. For both the industry and occupation classification systems, the basic structures were generally the same from 1940 to 1970, but changes in the individual categories limited comparability of the data from one census to another. These changes were needed to recognize the "birth" of new industries and occupations, the "death" of others, and the growth and decline in existing industries and occupations, as well as, the desire of analysts and other users for more detail in the presentation of the data. Probably the greatest cause of incomparability is the movement of a segment of a category to a different category in the next census. Changes in the nature of jobs and respondent terminology, and refinement of category composition made these movements necessary.

In the 1990 census, the industry classification had minor revisions to reflect recent changes to the SIC. The 1990 occupational classification system is essentially the same as that for the 1980 census. However, the conversion of the census classification to the SOC

in 1980 meant that the 1990 classification system was less comparable to the classifications used prior to the 1980 census.

Other factors that affected data comparability included the universe to which the data referred (in 1970, the age cutoff for labor force was changed from 14 years to 16 years); how the industry and occupation questions were worded on the questionnaire (for example, important changes were made in 1970); improvements in the coding procedures (the Employer Name List technique was introduced in 1960); and how the "not reported" cases are handled. Prior to 1970, they were placed in the residual categories, "Industry not reported" and "Occupation not reported." In 1970, an allocation process was introduced that assigned these cases to major groups. In 1990, as in 1980, the "Not reported" cases were assigned to individual categories. Therefore, the 1980 and 1990 data for individual categories included some numbers of persons who were tabulated in a "Not reported" category in previous censuses.

The following publications contain information on the various factors affecting comparability and are particularly useful for understanding differences in the occupation and industry information from earlier censuses: U.S. Bureau of the Census, *Changes Between the 1950 and 1960 Occupation and Industry Classifications With Detailed Adjustments of 1950 Data to the 1960 Classifications*, Technical Paper No. 18, 1968; U.S. Bureau of the Census, *1970 Occupation and Industry Classification Systems in Terms of their 1960 Occupation and Industry Elements*, Technical Paper No. 26, 1972; and U.S. Bureau of the Census, *The Relationship Between the 1970 and 1980 Industry and Occupation Classification Systems*, Technical Paper No. 59, 1988. For citations for earlier census years, see the 1980 Census of Population report, PC80-1-D, *Detailed Population Characteristics*.

The 1990 census introduced an additional class of worker category for "private not-for-profit" employers. This category is a subset of the 1980 category "employee of private employer" so there is no comparable data before 1990. Also in 1990, employees of foreign governments, the United Nations, etc., are classified as "private not-for-profit," rather than Federal Government as in 1970 and 1980. While in theory, there was a change in comparability, in practice, the small number of U.S. residents working for foreign governments made this change negligible.

Comparability between the statistics on industry and occupation from the 1990 census and statistics from other sources is affected by many of the factors described in the section on "Employment Status." These factors are primarily geographic differences between residence and place of work, different dates of reference, and differences in counts because of dual job holding. Industry data from population censuses cover all industries and all kinds of workers, whereas, data from

establishments often excluded private household workers, government workers, and the self-employed. Also, the replies from household respondents may have differed in detail and nature from those obtained from establishments.

Occupation data from the census and data from government licensing agencies, professional associations, trade unions, etc., may not be as comparable as expected. Organizational listings often include persons not in the labor force or persons devoting all or most of their time to another occupation; or the same person may be included in two or more different listings. In addition, relatively few organizations, except for those requiring licensing, attained complete coverage of membership in a particular occupational field.

## JOURNEY TO WORK

### Place of Work

The data on place of work were derived from answers to questionnaire item 22, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under "Reference Week.")

Data were tabulated for workers 16 years and over; that is, members of the Armed Forces and civilians who were at work during the reference week. Data on place of work refer to the geographic location at which workers carried out their occupational activities during the reference week. The exact address (number and street) of the place of work was asked, as well as the place (city, town, or post office); whether or not the place of work was inside or outside the limits of that city or town; and the county, State, and ZIP Code. If the person's employer operated in more than one location, the exact address of the location or branch where the respondent worked was requested. When the number and street name were unknown, a description of the location, such as the building name or nearest street or intersection, was to be entered.

Persons who worked at more than one location during the reference week were asked to report the one at which they worked the greatest number of hours. Persons who regularly worked in several locations each day during the reference week were requested to give the address at which they began work each day. For cases in which daily work did not begin at a central place each day, the person was asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

In some tabulations, place-of-work locations may be defined as "in area of residence" and "outside area of residence." The area of residence may vary from table to table or even within a table, and refers to the particular area or areas shown. For example, in a table

that provides data for counties, "in area of residence" refers to persons who worked in the same county in which they lived, while "outside area of residence" refers to persons whose workplace was located in a county different from the one in which they lived. Similarly, in a table that provides data for several types of areas, such as the State and its individual metropolitan areas (MA's), counties, and places, the place-of-work data will be variable and is determined by the geographic level (State, MA, county, or place) shown in each section of the tabulation.

In tabulations that present data for States, workplaces for the residents of the State may include, in addition to the State itself, each contiguous State. The category, "in noncontiguous State or abroad," includes persons who worked in a State that did not border their State of residence as well as persons who worked outside the United States.

In tabulations that present data for an MSA/PMSA, place-of-work locations are specified to show the main destinations of workers living in the MSA/PMSA. (For more information on metropolitan areas (MA's), see Appendix A, Area Classifications.) All place-of-work locations are identified with respect to the boundaries of the MSA/PMSA as "inside MSA/PMSA" or "outside MSA/PMSA." Locations within the MSA/PMSA are further divided into each central city, and each county or county balance. Selected large incorporated places also may be specified as places of work.

Within New England MSA/PMSA's, the places of work presented generally are cities and towns. Locations outside the MSA/PMSA are specified if they are important commuting destinations for residents of the MSA/PMSA, and may include adjoining MSA/PMSA's and their central cities, their component counties, large incorporated places, or counties, cities, or other geographic areas outside any MA. In tabulations for MSA/PMSA's in New England; Honolulu, Hawaii; and certain other MA's, some place-of-work locations are identified as "areas" (e.g., Area 1, Area 5, Area 12, etc.). Such areas consist of groups of towns, cities, census designated places (Honolulu MSA only), or counties that have been identified as unique place-of-work destinations. When an adjoining MSA/PMSA or MSA/PMSA remainder is specified as a place-of-work location, its components are not defined. However, the components are presented in the 1990 CP-1, *General Population Characteristics for Metropolitan Areas* and the 1990 CH-1, *General Housing Characteristics for Metropolitan Areas* reports. In tabulations that present data for census tracts outside MA's, place-of-work locations are defined as "in county of residence" and "outside county of residence."

In areas where the workplace address was coded to the block level, persons were tabulated as working inside or outside a specific place based on the location of that address, regardless of the response to question 22c concerning city/town limits. In areas where it was

impossible to code the workplace address to the block level, persons were tabulated as working in a place if a place name was reported in question 22b and the response to question 22c was either "Yes" or the item was left blank. In selected areas, census designated places (CDPs) may appear in the tabulations as places of work. The accuracy of place-of-work data for CDPs may be affected by the extent to which their census names were familiar to respondents, and by coding problems caused by similarities between the CDP name and the names of other geographic jurisdictions in the same vicinity.

Place-of-work data are given for selected minor civil divisions (generally, cities, towns, and townships) in the nine Northeastern States, based on the responses to the place-of-work question. Many towns and townships are regarded locally as equivalent to a place and therefore, were reported as the place of work. When a respondent reported a locality or incorporated place that formed a part of a township or town, the coding and tabulating procedure was designed to include the response in the total for the township or town. The accuracy of the place-of-work data for minor civil divisions is greatest for the New England States. However, the data for some New England towns, for towns in New York, and for townships in New Jersey and Pennsylvania may be affected by coding problems that resulted from the unfamiliarity of the respondent with the minor civil division in which the workplace was located or when a township and a city or borough of the same or similar name are located close together.

Place-of-work data may show a few workers who made unlikely daily work trips (e.g., workers who lived in New York and worked in California). This result is attributable to persons who worked during the reference week at a location that was different from their usual place of work, such as persons away from home on business.

**Comparability**—The wording of the question on place of work was substantially the same in the 1990 census as it was in 1980. However, data on place of work from the 1990 census are based on the full census sample, while data from the 1980 census were based on only about one-half of the full sample.

For the 1980 census, nonresponse or incomplete responses to the place-of-work question were not allocated, resulting in the use of "not reported" categories in the 1980 publications. However, for the 1990 census, when place of work was not reported or the response was incomplete, a work location was allocated to the person based on their means of transportation to work, travel time to work, industry, and location of residence and workplace of others. The 1990 publications, therefore, do not contain a "not reported" category for the place-of-work data.

Comparisons between 1980 and 1990 census data on the gross number of workers in particular commuting

flows, or the total number of persons working in an area, should be made with extreme caution. Any apparent increase in the magnitude of the gross numbers may be due solely to the fact that for 1990 the "not reported" cases have been distributed among specific place-of-work destinations, instead of tallied in a separate category as in 1980.

**Limitation of the Data**—The data on place of work relate to a reference week; that is, the calendar week preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents because the enumeration was not completed in 1 week. However, for the majority of persons, the reference week for the 1990 census is the last week in March 1990. The lack of a uniform reference week means that the place-of-work data reported in the census will not exactly match the distribution of workplace locations observed or measured during an actual workweek.

The place-of-work data are estimates of persons 16 years old and over who were both employed and at work during the reference week (including persons in the Armed Forces). Persons who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons are not included in the place-of-work data. Therefore, the data on place of work understate the total number of jobs or total employment in a geographic area during the reference week. It also should be noted that persons who had irregular, casual, or unstructured jobs during the reference week may have erroneously reported themselves as not working.

The address where the individual worked most often during the reference week was recorded on the census questionnaire. If a worker held two jobs, only data about the primary job (the one worked the greatest number of hours during the preceding week) was requested. Persons who regularly worked in several locations during the reference week were requested to give the address at which they began work each day. For cases in which daily work was not begun at a central place each day, the person was asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

## Means of Transportation to Work

The data on means of transportation to work were derived from answers to questionnaire item 23a, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under "Reference Week.") Means of transportation to work refers to the principal mode of travel or type of conveyance that the person usually used to get from home to work during the reference week.

Persons who used different means of transportation on different days of the week were asked to specify the one they used most often, that is, the greatest number of days. Persons who used more than one means of transportation to get to work each day were asked to report the one used for the longest distance during the work trip. The category, "Car, truck, or van," includes workers using a car (including company cars but excluding taxicabs), a truck of one-ton capacity or less, or a van. The category, "Public transportation," includes workers who used a bus or trolley bus, streetcar or trolley car, subway or elevated, railroad, ferryboat, or taxicab even if each mode is not shown separately in the tabulation. The category, "Other means," includes workers who used a mode of travel which is not identified separately within the data distribution. The category, "Other means," may vary from table to table, depending on the amount of detail shown in a particular distribution.

The means of transportation data for some areas may show workers using modes of public transportation that are not available in those areas (e.g., subway or elevated riders in an MA where there actually is no subway or elevated service). This result is largely due to persons who worked during the reference week at a location that was different from their usual place of work (such as persons away from home on business in an area where subway service was available) and persons who used more than one means of transportation each day but whose principal means was unavailable where they lived (for example, residents of nonmetropolitan areas who drove to the fringe of an MA and took the commuter railroad most of the distance to work).

### **Private Vehicle Occupancy**

The data on private vehicle occupancy were derived from answers to questionnaire item 23b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that their means of transportation to work was "Car, truck, or van." (For more information, see discussion under "Reference Week.")

Private vehicle occupancy refers to the number of persons who usually rode to work in the vehicle during the reference week. The category, "Drove alone," includes persons who usually drove alone to work as well as persons who were driven to work by someone who then drove back home or to a nonwork destination. The category, "Carpooled," includes workers who reported that two or more persons usually rode to work in the vehicle during the reference week.

**Persons Per Car, Truck, or Van**—This is obtained by dividing the number of persons who reported using a car, truck, or van to get to work by the number of such vehicles that they used. The number of vehicles used is

derived by counting each person who drove alone as one vehicle, each person who reported being in a two-person carpool as one-half vehicle, each person who reported being in a three-person carpool as one-third vehicle, and so on, and then summing all the vehicles.

### **Time Leaving Home to Go to Work**

The data on time leaving home to go to work were derived from answers to questionnaire item 24a. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. The departure time refers to the time of day that the person usually left home to go to work during the reference week. (For more information, see discussion under "Reference Week.")

### **Travel Time to Work**

The data on travel time to work were derived from answers to questionnaire item 24b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. Travel time to work refers to the total number of minutes that it usually took the person to get from home to work during the reference week. The elapsed time includes time spent waiting for public transportation, picking up passengers in carpools, and time spent in other activities related to getting to work. (For more information, see discussion under "Reference Week.")

## **LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH**

### **Language Spoken at Home**

Data on language spoken at home were derived from the answers to questionnaire items 15a and 15b, which were asked of a sample of persons born before April 1, 1985. Instructions mailed with the 1990 census questionnaire stated that a respondent should mark "Yes" in question 15a if the person sometimes or always spoke a language other than English at home and should not mark "Yes" if a language was spoken only at school or if speaking was limited to a few expressions or slang. For question 15b, respondents were instructed to print the name of the non-English language spoken at home. If the person spoke more than one language other than English, the person was to report the language spoken more often or the language learned first.

The cover of the census questionnaire included information in Spanish which provided a telephone number for respondents to call to request a census

questionnaire and instructions in Spanish. Instruction guides were also available in 32 other languages to assist enumerators who encountered households or respondents who spoke no English.

Questions 15a and 15b referred to languages spoken at home in an effort to measure the current use of languages other than English. Persons who knew languages other than English but did not use them at home or who only used them elsewhere were excluded. Persons who reported speaking a language other than English at home may also speak English; however, the questions did not permit determination of the main or dominant language of persons who spoke both English and another language. (For more information, see discussion below on "Ability to Speak English.")

For persons who indicated that they spoke a language other than English at home in question 15a, but failed to specify the name of the language in question 15b, the language was assigned based on the language of other speakers in the household; on the language of a person of the same Spanish origin or detailed race group living in the same or a nearby area; or on a person of the same ancestry or place of birth. In all cases where a person was assigned a non-English language, it was assumed that the language was spoken at home. Persons for whom the name of a language other than English was entered in question 15b, and for whom question 15a was blank were assumed to speak that language at home.

The write-in responses listed in question 15b (specific language spoken) were transcribed onto computer files and coded into more than 380 detailed language categories using an automated coding system. The automated procedure compared write-in responses reported by respondents with entries in a computer dictionary, which initially contained approximately 2,000 language names. The dictionary was updated with a large number of new names, variations in spelling, and a small number of residual categories. Each write-in response was given a numeric code that was associated with one of the detailed categories in the dictionary. If the respondent listed more than one non-English language, only the first was coded.

The write-in responses represented the names people used for languages they speak. They may not match the names or categories used by linguists. The sets of categories used are sometimes geographic and sometimes linguistic. Figure 1 provides an illustration of the content of the classification schemes used to present language data. For more information, write to the Chief, Population Division, U.S. Bureau of the Census, Washington, DC 20233.

**Household Language**—In households where one or more persons (age 5 years old or over) speak a language other than English, the household language assigned to all household members is the non-English language spoken by the first person with a non-English

language in the following order: householder, spouse, parent, sibling, child, grandchild, other relative, stepchild, unmarried partner, housemate or roommate, roomer, boarder, or foster child, or other nonrelative. Thus, persons who speak only English may have a non-English household language assigned to them in tabulations of persons by household language.

Figure 1. Four- and Twenty-Five-Group Classifications of 1990 Census Languages Spoken at Home with Illustrative Examples

Four-Group Classification	Twenty-Five-Group Classification	Examples
Spanish	Spanish	Spanish, Ladino
Other Indo-European	French	French, Cajun, French Creole
	Italian	
	Portuguese	
	German	
	Yiddish	
	Other West Germanic	Afrikaans, Dutch
	Scandinavian	Pennsylvania Dutch, Danish, Norwegian, Swedish
	Polish	
	Russian	
	South Slavic	Serbo-Croatian, Bulgarian, Macedonian, Slovene
Languages of Asia and the Pacific	Other Slavic	Czech, Slovak, Ukrainian
	Greek	
	Indic	Hindi, Bengali, Gujarathi, Punjabi, Romany, Sinhalese
	Other Indo-European, not elsewhere classified	Armenian, Gaelic, Lithuanian, Persian
	Chinese	
	Japanese	
	Mon-Khmer	Cambodian
	Tagalog	
	Korean	
	Vietnamese	
All other languages	Other languages (part)	Chamorro, Dravidian languages, Hawaiian, Ilocano, Thai, Turkish
	Arabic	
	Hungarian	
	Native North American languages	
	Other languages (part)	Amharic, Syriac, Finnish, Hebrew, languages of Central and South America, Other languages of Africa

## Ability to Speak English

Persons 5 years old and over who reported that they spoke a language other than English in question 15a were also asked in question 15c to indicate their ability to speak English based on one of the following categories: "Very well," "Well," "Not well," or "Not at all."

The data on ability to speak English represent the person's own perception about his or her own ability or, because census questionnaires are usually completed



by one household member, the responses may represent the perception of another household member. The instruction guides and questionnaires that were mailed to households did not include any information on how to interpret the response categories in question 15c.

Persons who reported that they spoke a language other than English at home but whose ability to speak English was not reported, were assigned the English-language ability of a randomly selected person of the same age, Spanish origin, nativity and year of entry, and language group.

**Linguistic Isolation**—A household in which no person age 14 years or over speaks only English and no person age 14 years or over who speaks a language other than English speaks English "Very well" is classified as "linguistically isolated." All the members of a linguistically isolated household are tabulated as linguistically isolated, including members under age 14 years who may speak only English.

**Limitation of the Data**—Persons who speak a language other than English at home may have first learned that language at school. However, these persons would be expected to indicate that they spoke English "Very well." Persons who speak a language other than English, but do not do so *at home*, should have been reported as not speaking a language other than English at home.

The extreme detail in which language names were coded may give a false impression of the linguistic precision of these data. The names used by speakers of a language to identify it may reflect ethnic, geographic, or political affiliations and do not necessarily respect linguistic distinctions. The categories shown in the tabulations were chosen on a number of criteria, such as information about the number of speakers of each language that might be expected in a sample of the United States population.

**Comparability**—Information on language has been collected in every census since 1890. The comparability of data among censuses is limited by changes in question wording, by the subpopulations to whom the question was addressed, and by the detail that was published.

The same question on language was asked in the 1980 and 1990 censuses. This question on the current language spoken at home replaced the questions asked in prior censuses on mother tongue; that is, the language other than English spoken in the person's home when he or she was a child; one's first language; or the language spoken before immigrating to the United States. The censuses of 1910-1940, 1960 and 1970 included questions on mother tongue. A change in coding procedure from 1980 to 1990 should have improved accuracy of coding and may affect the number of persons reported in some of the 380 plus categories. It should

not greatly affect the 4-group or 25-group lists. In 1980, coding clerks supplied numeric codes for the written entries on each questionnaire using a 2,000 name reference list. In 1990 written entries were transcribed to a computer file and matched to a computer dictionary which began with the 2,000 name list, but expanded as unmatched names were referred to headquarters specialists for resolution.

The question on ability to speak English was asked for the first time in 1980. In tabulations from 1980, the categories "Very well" and "Well" were combined. Data from other surveys suggested a major difference between the category "Very well" and the remaining categories. In tabulations showing ability to speak English, persons who reported that they spoke English "Very well" are presented separately from persons who reported their ability to speak English as less than "Very well."

## MARITAL STATUS

The data on marital status were derived from answers to questionnaire item 6, which was asked of all persons. The marital status classification refers to the status at the time of enumeration. Data on marital status are tabulated only for persons 15 years old and over.

All persons were asked whether they were "now married," "widowed," "divorced," "separated," or "never married." Couples who live together (unmarried persons, persons in common-law marriages) were allowed to report the marital status they considered the most appropriate.

**Never Married**—Includes all persons who have never been married, including persons whose only marriage(s) was annulled.

**Ever Married**—Includes persons married at the time of enumeration (including those separated), widowed, or divorced.

**Now Married, Except Separated**—Includes persons whose current marriage has not ended through widowhood, divorce, or separation (regardless of previous marital history). The category may also include couples who live together or persons in common-law marriages if they consider this category the most appropriate. In certain tabulations, currently married persons are further classified as "spouse present" or "spouse absent."

**Separated**—Includes persons legally separated or otherwise absent from their spouse because of marital discord. Included are persons who have been deserted or who have parted because they no longer want to live together but who have not obtained a divorce.

**Widowed**—Includes widows and widowers who have not remarried.

**Divorced**—Includes persons who are legally divorced and who have not remarried.

In selected sample tabulations, data for married and separated persons are reorganized and combined with information on the presence of the spouse in the same household.

**Now Married**—All persons whose current marriage has not ended by widowhood or divorce. This category includes persons defined above as "separated."

**Spouse Present**—Married persons whose wife or husband was enumerated as a member of the same household, including those whose spouse may have been temporarily absent for such reasons as travel or hospitalization.

**Spouse Absent**—Married persons whose wife or husband was not enumerated as a member of the same household. This category also includes all married persons living in group quarters.

**Separated**—Defined above.

**Spouse Absent, Other**—Married persons whose wife or husband was not enumerated as a member of the same household, excluding separated. Included is any person whose spouse was employed and living away from home or in an institution or absent in the Armed Forces.

Differences between the number of currently married males and the number of currently married females occur because of reporting differences and because some husbands and wives have their usual residence in different areas. In sample tabulations, these differences can also occur because different weights are applied to the individual's data. Any differences between the number of "now married, spouse present" males and females are due solely to sample weighting. By definition, the numbers would be the same.

When marital status was not reported, it was imputed according to the relationship to the householder and sex and age of the person. (For more information on imputation, see Appendix C, *Accuracy of the Data*.)

**Comparability**—The 1990 marital status definitions are the same as those used in 1980 with the exception of the term "never married" which replaces the term "single" in tabulations. A general marital status question has been asked in every census since 1880.

## MOBILITY LIMITATION STATUS

The data on mobility limitation status were derived from answers to questionnaire item 19a, which was asked of a sample of persons 15 years old and over.

Persons were identified as having a mobility limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to go outside the home alone. Examples of outside activities on the questionnaire included shopping and visiting the doctor's office.

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

**Comparability**—This was the first time that a question on mobility limitation was included in the census.

## PLACE OF BIRTH

The data on place of birth were derived from answers to questionnaire item 8, which was asked on a sample basis. The place-of-birth question asked respondents to report the U.S. State, commonwealth or territory, or the foreign country where they were born. Persons born outside the United States were asked to report their place of birth according to current international boundaries. Since numerous changes in boundaries of foreign countries have occurred in the last century, some persons may have reported their place of birth in terms of boundaries that existed at the time of their birth or emigration, or in accordance with their own national preference.

Persons not reporting place of birth were assigned the birthplace of another family member or were allocated the response of another person with similar characteristics. Persons allocated as foreign born were not assigned a specific country of birth but were classified as "Born abroad, country not specified."

**Nativity**—Information on place of birth and citizenship were used to classify the population into two major categories: native and foreign born. When information on place of birth was not reported, nativity was assigned on the basis of answers to citizenship, if reported, and other characteristics.

**Native**—Includes persons born in the United States, Puerto Rico, or an outlying area of the United States. The small number of persons who were born in a foreign country but have at least one American parent also are included in this category.

The native population is classified in the following groups: persons born in the State in which they resided at the time of the census; persons born in a different State, by region; persons born in Puerto Rico or an outlying area of the U.S.; and persons born abroad with at least one American parent.

**Foreign Born**—Includes persons not classified as "Native." Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The foreign-born population is shown by selected area, country, or region of birth: the places of birth shown in data products were selected based on the number of respondents who reported that area or country of birth.

**Comparability**—Data on the State of birth of the native population have been collected in each census beginning with that of 1850. Similar data were shown in tabulations for the 1980 census and other recent censuses. Nonresponse was allocated in a similar manner in 1980; however, prior to 1980, nonresponse to the place of birth question was not allocated. Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The questionnaire instruction to report mother's State of residence instead of the person's actual State of birth (if born in a hospital in a different State) was dropped in 1990. Evaluation studies of 1970 and 1980 census data demonstrated that this instruction was generally either ignored or misunderstood. Since the hospital and the mother's residence is in the same State for most births, this change may have a slight effect on State of birth data for States with large metropolitan areas that straddle State lines.

## POVERTY STATUS IN 1989

The data on poverty status were derived from answers to the same questions as the income data, questionnaire items 32 and 33. (For more information, see the discussion under "Income in 1989.") Poverty statistics presented in census publications were based on a definition originated by the Social Security Administration in 1964 and subsequently modified by Federal interagency committees in 1969 and 1980 and prescribed by the Office of Management and Budget in Directive 14 as the standard to be used by Federal agencies for statistical purposes.

At the core of this definition was the 1961 economy food plan, the least costly of four nutritionally adequate food plans designed by the Department of Agriculture. It was determined from the Agriculture Department's 1955 survey of food consumption that families of three or more persons spend approximately one-third of their income on food; hence, the poverty level for these families was set at three times the cost of the economy food plan. For smaller families and persons living alone, the cost of the economy food plan was multiplied by factors that were slightly higher to compensate for the relatively larger fixed expenses for these smaller households.

The income cutoffs used by the Census Bureau to determine the poverty status of families and unrelated individuals included a set of 48 thresholds arranged in a two-dimensional matrix consisting of family size (from one person to nine or more persons) cross-classified by presence and number of family members under 18 years old (from no children present to eight or more children present). Unrelated individuals and two-person families were further differentiated by age of the householder (under 65 years old and 65 years old and over).

The total income of each family or unrelated individual in the sample was tested against the appropriate poverty threshold to determine the poverty status of that family or unrelated individual. If the total income was less than the corresponding cutoff, the family or unrelated individual was classified as "below the poverty level." The number of persons below the poverty level was the sum of the number of persons in families with incomes below the poverty level and the number of unrelated individuals with incomes below the poverty level.

The poverty thresholds are revised annually to allow for changes in the cost of living as reflected in the Consumer Price Index. The average poverty threshold for a family of four persons was \$12,674 in 1989. (For

Table A. Poverty Thresholds in 1989 by Size of Family and Number of Related Children Under 18 Years

Size of Family Unit	Weighted average thresholds	Related children under 18 years								
		None	One	Two	Three	Four	Five	Six	Seven	Eight or more
One person (unrelated individual)	\$6,310									
Under 65 years	8,451	\$8,451								
65 years and over	5,947	5,947								
Two persons	8,076									
Householder under 65 years	8,343	8,303	\$8,547							
Householder 65 years and over	7,501	7,495	6,616							
Three persons	9,885	9,699	9,981	\$9,990						
Four persons	12,674	12,790	12,999	12,575	\$12,619					
Five persons	14,990	15,424	15,649	15,189	14,798	\$14,572				
Six persons	16,921	17,740	17,811	17,444	17,092	16,569	\$16,259			
Seven persons	19,162	20,412	20,540	20,101	19,794	19,224	18,558	\$17,828		
Eight persons	21,328	22,830	23,031	22,617	22,253	21,738	21,084	20,403	\$20,230	
Nine or more persons	25,480	27,463	27,596	27,229	26,921	26,416	25,719	25,089	24,933	\$23,973

more information, see table A below.) Poverty thresholds were applied on a national basis and were not adjusted for regional, State or local variations in the cost of living. For a detailed discussion of the poverty definition, see U.S. Bureau of the Census, Current Population Reports, Series P-60, No. 171, *Poverty in the United States: 1988 and 1989*.

**Persons for Whom Poverty Status Is Determined—**Poverty status was determined for all persons except institutionalized persons, persons in military group quarters and in college dormitories, and unrelated individuals under 15 years old. These groups also were excluded from the denominator when calculating poverty rates.

**Specified Poverty Levels—**Since the poverty levels currently in use by the Federal Government do not meet all the needs of data users, some of the data are presented for alternate levels. These specified poverty levels are obtained by multiplying the income cutoffs at the poverty level by the appropriate factor. For example, the average income cutoff at 125 percent of poverty level was \$15,843 ( $\$12,674 \times 1.25$ ) in 1989 for a family of four persons.

**Weighted Average Thresholds at the Poverty Level—**The average thresholds shown in the first column of table A are weighted by the presence and number of children. For example, the weighted average threshold for a given family size is obtained by multiplying the threshold for each presence and number of children category within the given family size by the number of families in that category. These products are then aggregated across the entire range of presence and number of children categories, and the aggregate is divided by the total number of families in the group to yield the weighted average threshold at the poverty level for that family size.

Since the basic thresholds used to determine the poverty status of families and unrelated individuals are applied to all families and unrelated individuals, the weighted average poverty thresholds are derived using all families and unrelated individuals rather than just those classified as being below the poverty level. To obtain the weighted poverty thresholds for families and unrelated individuals below alternate poverty levels, the weighted thresholds shown in table A may be multiplied directly by the appropriate factor. The weighted average thresholds presented in the table are based on the March 1990 Current Population Survey. However, these thresholds would not differ significantly from those based on the 1990 census.

**Income Deficit—**Represents the difference between the total income of families and unrelated individuals below the poverty level and their respective poverty thresholds. In computing the income deficit, families reporting a net income loss are assigned zero dollars and for such cases the deficit is equal to the poverty threshold.

This measure provided an estimate of the amount which would be required to raise the incomes of all poor families and unrelated individuals to their respective poverty thresholds. The income deficit is thus a measure of the degree of impoverishment of a family or unrelated individual. However, caution must be used in comparing the average deficits of families with different characteristics. Apparent differences in average income deficits may, to some extent, be a function of differences in family size.

**Mean Income Deficit—**Represents the amount obtained by dividing the total income deficit of a group below the poverty level by the number of families (or unrelated individuals) in that group.

**Comparability—**The poverty definition used in the 1980 and 1990 censuses differed slightly from the one used in the 1970 census. Three technical modifications were made to the definition used in the 1970 census as described below:

1. The separate thresholds for families with a female householder with no husband present and all other families were eliminated. For the 1980 and 1990 censuses, the weighted average of the poverty thresholds for these two types of families was applied to all types of families, regardless of the sex of the householder.
2. Farm families and farm unrelated individuals no longer had a set of poverty thresholds that were lower than the thresholds applied to nonfarm families and unrelated individuals. The farm thresholds were 85 percent of the corresponding levels for nonfarm families in the 1970 census. The same thresholds were applied to all families and unrelated individuals regardless of residence in 1980 and 1990.
3. The thresholds by size of family were extended from seven or more persons in 1970 to nine or more persons in 1980 and 1990.

These changes resulted in a minimal increase in the number of poor at the national level. For a complete discussion of these modifications and their impact, see the Current Population Reports, Series P-60, No. 133.

The population covered in the poverty statistics derived from the 1980 and 1990 censuses was essentially the same as in the 1970 census. The only difference was that in 1980 and 1990, unrelated individuals under 15 years old were excluded from the poverty universe, while in 1970, only those under 14 years old were excluded. The poverty data from the 1960 census excluded all persons in group quarters and included all unrelated individuals regardless of age. It was unlikely that these differences in population coverage would have had significant impact when comparing the poverty data for persons since the 1960 censuses.

**Current Population Survey**—Because of differences in the questionnaires and data collection procedures, estimates of the number of persons below the poverty level by various characteristics from the 1990 census may differ from those reported in the March 1990 Current Population Survey.

## RACE

The data on race were derived from answers to questionnaire item 4, which was asked of all persons. The concept of race as used by the Census Bureau reflects self-identification; it does not denote any clear-cut scientific definition of biological stock. The data for race represent self-classification by people according to the race with which they most closely identify. Furthermore, it is recognized that the categories of the race item include both racial and national origin or socio-cultural groups.

During direct interviews conducted by enumerators, if a person could not provide a single response to the race question, he or she was asked to select, based on self-identification, the group which best described his or her racial identity. If a person could not provide a single race response, the race of the mother was used. If a single race response could not be provided for the person's mother, the first race reported by the person was used. In all cases where occupied housing units, households, or families are classified by race, the race of the householder was used.

The racial classification used by the Census Bureau generally adheres to the guidelines in Federal Statistical Directive No. 15, issued by the Office of Management and Budget, which provides standards on ethnic and racial categories for statistical reporting to be used by all Federal agencies. The racial categories used in the 1990 census data products are provided below.

**White**—Includes persons who indicated their race as "White" or reported entries such as Canadian, German, Italian, Lebanese, Near Easterner, Arab, or Polish.

**Black**—Includes persons who indicated their race as "Black or Negro" or reported entries such as African American, Afro-American, Black Puerto Rican, Jamaican, Nigerian, West Indian, or Haitian.

**American Indian, Eskimo, or Aleut**—Includes persons who classified themselves as such in one of the specific race categories identified below.

**American Indian**—Includes persons who indicated their race as "American Indian," entered the name of an Indian tribe, or reported such entries as Canadian Indian, French-American Indian, or Spanish-American Indian.

**American Indian Tribe**—Persons who identified themselves as American Indian were asked to report their enrolled or principal tribe. Therefore, tribal data in tabulations reflect the written tribal entries reported on the questionnaires. Some of the entries (for example, Iroquois, Sioux, Colorado River, and Flathead) represent nations or reservations.

The information on tribe is based on self-identification and therefore does not reflect any designation of Federally- or State-recognized tribe. Information on American Indian tribes is presented in summary tape files and special data products. The information is derived from the American Indian Detailed Tribal Classification List for the 1990 census. The classification list represents all tribes, bands, and clans that had a specified number of American Indians reported on the census questionnaire.

**Eskimo**—Includes persons who indicated their race as "Eskimo" or reported entries such as Arctic Slope, Inupiat, and Yupik.

**Aleut**—Includes persons who indicated their race as "Aleut" or reported entries such as Alutiq, Egagik, and Pribilofian.

**Asian or Pacific Islander**—Includes persons who reported in one of the Asian or Pacific Islander groups listed on the questionnaire or who provided write-in responses such as Thai, Nepali, or Tongan. A more detailed listing of the groups comprising the Asian or Pacific Islander population is presented in figure 2 below. In some data products, information is presented separately for the Asian population and the Pacific Islander population.

**Asian**—Includes "Chinese," "Filipino," "Japanese," "Asian Indian," "Korean," "Vietnamese," and "Other Asian." In some tables, "Other Asian" may not be shown separately, but is included in the total Asian population.

**Chinese**—Includes persons who indicated their race as "Chinese" or who identified themselves as Cantonese, Tibetan, or Chinese American. In standard census reports, persons who reported as "Taiwanese" or "Formosan" are included here with Chinese. In special reports on the Asian or Pacific Islander population, information on persons who identified themselves as Taiwanese are shown separately.

**Filipino**—Includes persons who indicated their race as "Filipino" or reported entries such as Filipino, Philippine, or Filipino American.

**Japanese**—Includes persons who indicated their race as "Japanese" and persons who identified themselves as Nipponese or Japanese American.

**Asian Indian**—Includes persons who indicated their race as "Asian Indian" and persons who identified themselves as Bengalese, Bharat, Dravidian, East Indian, or Goanese.

**Korean**—Includes persons who indicated their race as "Korean" and persons who identified themselves as Korean American.

**Vietnamese**—Includes persons who indicated their race as "Vietnamese" and persons who identified themselves as Vietnamese American.

**Cambodian**—Includes persons who provided a write-in response such as Cambodian or Cambodia.

**Hmong**—Includes persons who provided a write-in response such as Hmong, Laohmong, or Mong.

**Laotian**—Includes persons who provided a write-in response such as Laotian, Laos, or Lao.

**Thai**—Includes persons who provided a write-in response such as Thai, Thailand, or Siamese.

**Other Asian**—Includes persons who provided a write-in response of Bangladeshi, Burmese, Indonesian, Pakistani, Sri Lankan, Amerasian, or Eurasian. See figure 2 for other groups comprising "Other Asian."

**Pacific Islander**—Includes persons who indicated their race as "Pacific Islander" by classifying themselves into one of the following groups or identifying themselves as one of the Pacific Islander cultural groups of Polynesian, Micronesian, or Melanesian.

**Hawaiian**—Includes persons who indicated their race as "Hawaiian" as well as persons who identified themselves as Part Hawaiian or Native Hawaiian.

**Samoa**—Includes persons who indicated their race as "Samoa" or persons who identified themselves as American Samoa or Western Samoa.

**Guamanian**—Includes persons who indicated their race as "Guamanian" or persons who identified themselves as Chamorro or Guam.

**Other Pacific Islander**—Includes persons who provided a write-in response of a Pacific Islander group such as Tahitian, Northern Mariana Islander, Palauan, Fijian, or a cultural group such as Polynesian, Micronesian, or Melanesian. See figure 2 for other groups comprising "Other Pacific Islander."

**Other Race**—Includes all other persons not included in the "White," "Black," "American Indian, Eskimo, or Aleut," and the "Asian or Pacific Islander" race categories described above. Persons reporting in the "Other race" category and providing write-in entries such as multiracial, multiethnic, mixed, interracial, Wesort, or a Spanish/Hispanic origin group (such as Mexican, Cuban, or Puerto Rican) are included here.

Written entries to three categories on the race item—"Indian (Amer.)," "Other Asian or Pacific Islander (API)," and "Other race"—were reviewed, edited, and coded by subject matter specialists. (For more information on the coding operation, see the section below that discusses "Comparability.")

The written entries under "Indian (Amer.)," and "Other Asian or Pacific Islander (API)" were reviewed and coded during 100-percent processing of the 1990 census questionnaires. A substantial portion of the entries for the "Other race" category also were reviewed, edited, and coded during the 100-percent processing. The remaining entries under "Other race" underwent review and coding during sample processing. Most of the written entries reviewed and coded during sample processing were those indicating Hispanic origin such as Mexican, Cuban, or Puerto Rican.

If the race entry for a member of a household was missing on the questionnaire, race was assigned based upon the reported entries of race by other household members using specific rules of precedence of household relationship. For example, if race was missing for the daughter of the householder, then the race of her mother (as female householder or female spouse) would be assigned. If there was no female householder or spouse in the household, the daughter would be assigned her father's (male householder) race. If race was not reported for anyone in the household, the race of a householder in a previously processed household was assigned. This procedure is a variation of the general imputation procedures described in Appendix C, Accuracy of the Data.

**Limitation of the Data**—In the 1980 census, a relatively high proportion (20 percent) of American Indians did not report any tribal entry in the race item. Evaluation of the pre-census tests indicated that changes made for the 1990 race item should improve the reporting of tribes in the rural areas (especially on reservations) for the 1990 census. The results for urban areas were inconclusive. Also, the precensus tests indicated that there may be overreporting of the Cherokee tribe. An evaluation of 1980 census data showed overreporting of Cherokee in urban areas or areas where the number of American Indians was sparse.

In the 1990 census, respondents sometimes did not fill in a circle or filled the "Other race" circle and wrote in a response, such as Arab, Polish, or African American in the shared write-in box for "Other race" and "Other

API" responses. During the automated coding process, these responses were edited and assigned to the appropriate racial designation. Also, some Hispanic origin persons did not fill in a circle, but provided entries such as Mexican or Puerto Rican. These persons were classified in the "Other race" category during the coding and editing process. There may be some minor differences between sample data and 100-percent data because sample processing included additional edits not included in the 100-percent processing.

Figure 2. Asian or Pacific Islander Groups Reported in the 1990 Census

Asian	Pacific Islander
Chinese	Hawaiian
Filipino	Samoan
Japanese	Guamanian
Asian Indian	Other Pacific Islander <sup>1</sup>
Korean	Carolinian
Vietnamese	Fijian
Cambodian	Kosraean
Hmong	Melanesian <sup>3</sup>
Laotian	Micronesian <sup>3</sup>
Thai	Northern Mariana Islander
Other Asian <sup>1</sup>	Palauan
Bangladeshi	Papua New Guinean
Bhutanese	Ponapean (Pohnpeian)
Borneo	Polynesian <sup>3</sup>
Burmese	Solomon Islander
Celebesan	Tahitian
Ceram	Tarawa Islander
Indochinese	Tokelauan
Indonesian	Tongan
Iwo-Jiman	Trukese (Chuukese)
Javanese	Yapese
Malayan	Pacific Islander, not specified
Maldivian	
Nepali	
Okinawan	
Pakistani	
Sikkim	
Singaporean	
Sri Lankan	
Sumatran	
Asian, not specified <sup>2</sup>	

<sup>1</sup>In some data products, specific groups listed under "Other Asian" or "Other Pacific Islander" are shown separately. Groups not shown are tabulated as "All other Asian" or "All other Pacific Islander," respectively.

<sup>2</sup>Includes entries such as Asian American, Asian, Asiatic, Amerasian, and Eurasian.

<sup>3</sup>Polynesian, Micronesian, and Melanesian are Pacific Islander cultural groups.

**Comparability**—Differences between the 1990 census and earlier censuses affect the comparability of data for certain racial groups and American Indian tribes. The 1990 census was the first census to undertake, on a 100-percent basis, an automated review, edit, and coding operation for written responses to the race item. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the race subject matter reviewed, edited, coded, and

resolved inconsistent or incomplete responses. In the 1980 census, there was only a limited clerical review of the race responses on the 100-percent forms with a full clerical review conducted only on the sample questionnaires.

Another major difference between the 1990 and preceding censuses is the handling of the write-in responses for the Asian or Pacific Islander populations. In addition to the nine Asian or Pacific Islander categories shown on the questionnaire under the spanner "Asian or Pacific Islander (API)," the 1990 census race item provided a new residual category, "Other API," for Asian or Pacific Islander persons who did not report in one of the listed Asian or Pacific Islander groups. During the coding operation, write-in responses for "Other API" were reviewed, coded, and assigned to the appropriate classification. For example, in 1990, a write-in entry of Laotian, Thai, or Javanese is classified as "Other Asian," while a write-in entry of Tongan or Fijian is classified as "Other Pacific Islander." In the 1990 census, these persons were able to identify as "Other API" in both the 100-percent and sample operations.

In the 1980 census, the nine Asian or Pacific Islander groups were also listed separately. However, persons not belonging to these nine groups wrote in their specific racial group under the "Other" race category. Persons with a written entry such as Laotian, Thai, or Tongan, were tabulated and published as "Other race" in the 100-percent processing operation in 1980, but were reclassified as "Other Asian and Pacific Islander" in 1980 sample tabulations. In 1980 special reports on the Asian or Pacific Islander populations, data were shown separately for "Other Asian" and "Other Pacific Islander."

The 1970 questionnaire did not have separate race categories for Asian Indian, Vietnamese, Samoan, and Guamanian. These persons indicated their race in the "Other" category and later, through the editing process, were assigned to a specific group. For example, in 1970, Asian Indians were reclassified as "White," while Vietnamese, Guamanians, and Samoans were included in the "Other" category.

Another difference between 1990 and preceding censuses is the approach taken when persons of Spanish/Hispanic origin did not report in a specific race category but reported as "Other race" or "Other." These persons commonly provided a write-in entry such as Mexican, Venezuelan, or Latino. In the 1990 and 1980 censuses, these entries remained in the "Other race" or "Other" category, respectively. In the 1970 census, most of these persons were included in the "White" category.

## REFERENCE WEEK

The data on labor force status and journey to work were related to the reference week; that is, the calendar week preceding the date on which the respondents

completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents since the enumeration was not completed in one week. The occurrence of holidays during the enumeration period could affect the data on actual hours worked during the reference week, but probably had no effect on overall measurement of employment status (see the discussion below on "Comparability").

**Comparability**—The reference weeks for the 1990 and 1980 censuses differ in that Passover and Good Friday occurred in the first week of April 1980, but in the second week of April 1990. Many workers presumably took time off for those observances. The differing occurrence of these holidays could affect the comparability of the 1990 and 1980 data on actual hours worked for some areas if the respective weeks were the reference weeks for a significant number of persons. The holidays probably did not affect the overall measurement of employment status since this information was based on work activity during the entire reference week.

## RESIDENCE IN 1985

The data on residence in 1985 were derived from answers to question 14b, which asked for the State (or foreign country), county, and place of residence on April 1, 1985, for those persons reporting in question 14a that on that date they lived in a different house than their current residence. Residence in 1985 is used in conjunction with location of current residence to determine the extent of residential mobility of the population and the resulting redistribution of the population across the various States, metropolitan areas, and regions of the country.

When no information on residence in 1985 was reported for a person, information for other family members, if available, was used to assign a location of residence in 1985. All cases of nonresponse or incomplete response that were not assigned a previous residence based on information from other family members were allocated the previous residence of another person with similar characteristics who provided complete information.

The tabulation category, "Same house," includes all persons 5 years old and over who did not move during the 5 years as well as those who had moved but by 1990 had returned to their 1985 residence. The category, "Different house in the United States," includes persons who lived in the United States in 1985 but in a different house or apartment from the one they occupied on April 1, 1990. These movers are then further subdivided according to the type of move.

In most tabulations, movers are divided into three groups according to their 1985 residence: "Different house, same county," "Different county, same State," and "Different State." The last group may be further

subdivided into region of residence in 1985. The category, "Abroad," includes those persons who were residing in a foreign country, Puerto Rico, or an outlying area of the U.S. in 1985, including members of the Armed Forces and their dependents. Some tabulations show movers who were residing in Puerto Rico or an outlying area in 1985 separately from those residing in other countries.

In tabulations for metropolitan areas, movers are categorized according to the metropolitan status of their current and previous residences, resulting in such groups as movers within an MSA/PMSA, movers between MSA/PMSA's, movers from nonmetropolitan areas to MSA/PMSA, and movers from central cities to the remainder of an MSA/PMSA. In some tabulations, these categories are further subdivided by size of MSA/PMSA, region of current or previous residence, or movers within or between central cities and the remainder of the same or a different MSA/PMSA.

The size categories used in some tabulations for both 1985 and 1990 residence refer to the populations of the MSA/PMSA on April 1, 1990: that is, at the end of the migration interval.

Some tabulations present data on immigrants, outmigrants, and net migration. "Immigrants" are generally defined as those persons who entered a specified area by crossing its boundary from some point outside the area. In some tabulations, movers from abroad are included in the number of immigrants; in others, only movers within the United States are included.

"Outmigrants" are persons who depart from a specific area by crossing its boundary to a point outside it, but without leaving the United States. "Net migration" is calculated by subtracting the number of outmigrants from the number of immigrants and, depending upon the particular tabulation, may or may not include movers from abroad. The net migration for the area is net immigration if the result was positive and net outmigration if the result was negative. In the tabulations, net outmigration is indicated by a minus sign (-).

Immigrants and outmigrants for States include only those persons who did not live in the same State in 1985 and 1990; that is, they exclude persons who moved between counties within the same State. Thus, the sum of the immigrants to (or outmigrants from) all counties in any State is greater than the number of immigrants to (or outmigrants from) that State. However, in the case of net migration, the sum of the nets for all the counties within a State equal the net for the State. In the same fashion, the net migration for a division or region equals the sum of the nets for the States comprising that division or region, while the number of immigrants and outmigrants for that division or region is less than the sum of the immigrants or outmigrants for the individual States.

The number of persons who were living in a different house in 1985 is somewhat less than the total number of moves during the 5-year period. Some persons in the



same house at the two dates had moved during the 5-year period but by the time of the census had returned to their 1985 residence. Other persons who were living in a different house had made one or more intermediate moves. For similar reasons, the number of persons living in a different county, MSA/PMSA, or State or moving between nonmetropolitan areas may be understated.

**Comparability**—Similar questions were asked on all previous censuses beginning in 1940, except the questions in 1950 referred to residence 1 year earlier rather than 5 years earlier. Although the questions in the 1940 census covered a 5-year period, comparability with that census was reduced somewhat because of different definitions and categories of tabulation. Comparability with the 1960 and 1970 census is also somewhat reduced because nonresponse was not allocated in those earlier censuses. For the 1980 census, nonresponse was allocated in a manner similar to the 1990 allocation scheme.

## SCHOOL ENROLLMENT AND LABOR FORCE STATUS

Tabulation of data on enrollment, educational attainment, and labor force status for the population 16 to 19 years old allows for calculation of the proportion of the age group who are not enrolled in school and not high school graduates or "dropouts" and an unemployment rate for the "dropout" population. Definitions of the three topics and descriptions of the census items from which they were derived are presented in "Educational Attainment," "Employment Status," and "School Enrollment and Type of School." The published tabulations include both the civilian and Armed Forces populations, but labor force status is provided for the civilian population only. Therefore, the component labor force statuses may not add to the total lines *enrolled in school*, *high school graduate*, and *not high school graduate*. The difference is Armed Forces.

**Comparability**—The tabulation of school enrollment by labor force status is similar to that published in 1980 census reports. The 1980 census tabulation included a single data line for Armed Forces; however, enrollment, attainment, and labor force status data were shown for the civilian population only. In 1970, a tabulation was included for 16 to 21 year old males not attending school.

## SCHOOL ENROLLMENT AND TYPE OF SCHOOL

Data on school enrollment were derived from answers to questionnaire item 11, which was asked of a sample of persons. Persons were classified as enrolled in

school if they reported attending a "regular" public or private school or college at any time between February 1, 1990, and the time of enumeration. The question included instructions to "include only nursery school, kindergarten, elementary school, and schooling which would lead to a high school diploma or a college degree" as regular school. Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that enrollment in a trade or business school, company training, or tutoring were not to be included unless the course would be accepted for credit at a regular elementary school, high school, or college. Persons who did not answer the enrollment question were assigned the enrollment status and type of school of a person with the same age, race or Hispanic origin, and, at older ages, sex, whose residence was in the same or a nearby area.

**Public and Private School**—Includes persons who attended school in the reference period and indicated they were enrolled by marking one of the questionnaire categories for either "public school, public college" or "private school, private college." The instruction guide defines a public school as "any school or college controlled and supported by a local, county, State, or Federal Government." "Schools supported and controlled primarily by religious organizations or other private groups" are defined as private. Persons who filled both the "public" and "private" circles are edited to the first entry, "public."

**Level of School in Which Enrolled**—Persons who were enrolled in school were classified as enrolled in "preprimary school," "elementary or high school," or "college" according to their response to question 12 (years of school completed or highest degree received). Persons who were enrolled and reported completing nursery school or less were classified as enrolled in "preprimary school," which includes kindergarten. Similarly, enrolled persons who had completed at least kindergarten, but not high school, were classified as enrolled in elementary or high school. Enrolled persons who reported completing high school or some college or having received a post-secondary degree were classified as enrolled in "college." Enrolled persons who reported completing the twelfth grade but receiving "NO DIPLOMA" were classified as enrolled in high school. (For more information on level of school, see the discussion under "Educational Attainment.")

**Comparability**—School enrollment questions have been included in the census since 1840; grade attended was first asked in 1940; type of school was first asked in 1960. Before 1940, the enrollment question in various censuses referred to attendance in the preceding six months or the preceding year. In 1940, the reference was to attendance in the month preceding the census.

and in the 1950 and subsequent censuses, the question referred to attendance in the two months preceding the census date.

Until the 1910 census, there were no instructions limiting the kinds of schools in which enrollment was to be counted. Starting in 1910, the instructions indicated that attendance at "school, college, or any educational institution" was to be counted. In 1930 an instruction to include "night school" was added. In the 1940 instructions, night school, extension school, or vocational school were included only if the school was part of the regular school system. Correspondence school work of any kind was excluded. In the 1950 instructions, the term "regular school" was introduced, and it was defined as schooling which "advances a person towards an elementary or high school diploma or a college, university, or professional school degree." Vocational, trade, or business schools were excluded unless they were graded and considered part of a regular school system. On-the-job training was excluded, as was nursery school. Instruction by correspondence was excluded unless it was given by a regular school and counted towards promotion.

In 1960, the question used the term "regular school or college" and a similar, though expanded, definition of "regular" was included in the instructions, which continued to exclude nursery school. Because of the census' use of mailed questionnaires, the 1960 census was the first in which instructions were written for the respondent as well as enumerators. In the 1970 census, the questionnaire used the phrase "regular school or college" and included instructions to "count nursery school, kindergarten, and schooling which leads to an elementary school certificate, high school diploma, or college degree." Instructions in a separate document specified that to be counted as regular school, nursery school must include instruction as an important and integral phase of its program, and continued the exclusion of vocational, trade, and business schools. The 1980 census question was very similar to the 1970 question, but the separate instruction booklet did not require that nursery school include substantial instructional content in order to be counted.

The age range for which enrollment data have been obtained and published has varied over the censuses. Information on enrollment was recorded for persons of all ages in the 1930 and 1940 and 1970 through 1990; for persons under age 30, in 1950; and for persons age 5 to 34, in 1960. Most of the published enrollment figures referred to persons age 5 to 20 in the 1930 census, 5 to 24 in 1940, 5 to 29 in 1950, 5 to 34 in 1960, 3 to 34 in 1970, and 3 years old and over in 1980. This growth in the age group whose enrollment was reported reflects increased interest in the number of children in preprimary schools and in the number of older persons attending colleges and universities.

In the 1950 and subsequent censuses, college students were enumerated where they lived while attending college, whereas in earlier censuses, they generally were enumerated at their parental homes. This change should not affect the comparability of national figures on college enrollment since 1940; however, it may affect the comparability over time of enrollment figures at sub-national levels.

Type of school was first introduced in the 1960 census, where a separate question asked the enrolled persons whether they were in a "public" or "private" school. Since the 1970 census, the type of school was incorporated into the response categories for the enrollment question and the terms were changed to "public," "parochial," and "other private." In the 1980 census, "private, church related" and "private, not church related" replaced "parochial" and "other private."

Grade of enrollment was first available in the 1940 census, where it was obtained from responses to the question on highest grade of school completed. Enumerators were instructed that "for a person still in school, the last grade completed will be the grade preceding the one in which he or she was now enrolled." From 1950 to 1980, grade of enrollment was obtained from the highest grade attended in the two-part question used to measure educational attainment. (For more information, see the discussion under "Educational Attainment.") The form of the question from which level of enrollment was derived in the 1990 census most closely corresponds to the question used in 1940. While data from prior censuses can be aggregated to provide levels of enrollment comparable to the 1990 census, 1990 data cannot be disaggregated to show single grade of enrollment as in previous censuses.

Data on school enrollment were also collected and published by other Federal, State, and local government agencies. Where these data were obtained from administrative records of school systems and institutions of higher learning, they were only roughly comparable with data from population censuses and household surveys because of differences in definitions and concepts, subject matter covered, time references, and enumeration methods. At the local level, the difference between the location of the institution and the residence of the student may affect the comparability of census and administrative data. Differences between the boundaries of school districts and census geographic units also may affect these comparisons.

## **SELF-CARE LIMITATION STATUS**

The data on self-care limitation status were derived from answers to questionnaire item 19b, which was asked of a sample of persons 15 years old and over. Persons were identified as having a self-care limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to take care of their own personal needs, such as dressing, bathing, or getting around inside the home.

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

**Comparability**—This was the first time that a question on self-care limitation was included in the census.

## SEX

The data on sex were derived from answers to questionnaire item 3, which was asked of all persons. For most cases in which sex was not reported, it was determined by the appropriate entry from the person's given name and household relationship. Otherwise, sex was imputed according to the relationship to the householder and the age and marital status of the person. For more information on imputation, see Appendix C, Accuracy of the Data.

**Sex Ratio**—A measure derived by dividing the total number of males by the total number of females and multiplying by 100.

**Comparability**—A question on the sex of individuals was asked of the total population in every census.

## VETERAN STATUS

Data on veteran status, period of military service, and years of military service were derived from answers to questionnaire item 17, which was asked of a sample of persons.

**Veteran Status**—The data on veteran status were derived from responses to question 17a. For census data products, a "civilian veteran" is a person 16 years old or over who had served (even for a short time) but is not now serving on active duty in the U.S. Army, Navy, Air Force, Marine Corps, or the Coast Guard, or who served as a Merchant Marine seaman during World War II. Persons who served in the National Guard or military Reserves are classified as veterans only if they were ever called or ordered to active duty not counting the 4-6 months for initial training or yearly summer camps. All other civilians 16 years old and over are classified as nonveterans.

**Period of Military Service**—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to indicate in question 17b the period or periods in which they served. Persons serving in at least one wartime period are classified in their most recent wartime period. For example, persons who served both during the Korean conflict and the post-Korean peacetime era between February 1955 and July 1964 are

classified in one of the two "Korean conflict" categories. If the same person had also served during the Vietnam era, he or she would instead be included in the "Vietnam era and Korean conflict" category. The responses were edited to eliminate inconsistencies between reported period(s) of service and the age of the person and to cancel out reported combinations of periods containing unreasonable gaps (for example, a person could not serve during World War I and the Korean conflict without serving during World War II). Note that the period of service categories shown in this report are mutually exclusive.

**Years of Military Service**—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to report the total number of years of active-duty service in question 17c. The data were edited for consistency with responses to question 17b (Period of Military Service) and with the age of the person.

**Limitation of the Data**—There may be a tendency for the following kinds of persons to report erroneously that they served on active duty in the Armed Forces: (a) persons who served in the National Guard or military Reserves but were never called to active duty; (b) civilian employees or volunteers for the USO, Red Cross, or the Department of Defense (or its predecessor Departments, War and Navy); and (c) employees of the Merchant Marine or Public Health Service. There may also be a tendency for persons to erroneously round up months to the nearest year in question 17c (for example, persons with 1 year 8 months of active-duty military service may mistakenly report "2 years").

**Comparability**—Since census data on veterans were based on self-reported responses, they may differ from data from other sources such as administrative records of the Department of Defense. Census data may also differ from Veterans Administration data on the benefits-eligible population, since factors determining eligibility for veterans benefits differ from the rules for classifying veterans in the census.

The wording of the question on veteran status (17a) for 1990 was expanded from the veteran/not veteran question in 1980 to include questions on current active-duty status and service in the military Reserves and the National Guard. The expansion was intended to clarify the appropriate response for persons in the Armed Forces and for persons who served in the National Guard or military Reserve units only. For the first time in a census, service during World War II as a Merchant Marine Seaman was considered active-duty military service and persons with such service were counted as veterans. An additional period of military service, "September 1980 or later" was added in 1990. As in 1970

and 1980, persons reporting more than one period of service are shown in the most recent wartime period of service category. Question 17c (Years of Military Service) was new for 1990.

## WORK DISABILITY STATUS

The data on work disability were derived from answers to questionnaire item 18, which was asked of a sample of persons 16 years old and over. Persons were identified as having a work disability if they had a health condition that had lasted for 6 or more months and which limited the kind or amount of work they could do at a job or business. A person was limited in the kind of work he or she could do if the person had a health condition which restricted his or her choice of jobs. A person was limited in the amount of work if he or she was not able to work full-time. Persons with a work disability were further classified as "Prevented from working" or "Not prevented from working."

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

**Comparability**—The wording of the question on work disability was the same in 1990 as in 1980. Information on work disability was first collected in 1970. In that census, the work disability question did not contain a clause restricting the definition of disability to limitations caused by a health condition that had lasted 6 or more months; however, it did contain a separate question about the duration of the disability.

## WORK STATUS IN 1989

The data on work status in 1989 were derived from answers to questionnaire item 31, which was asked of a sample of persons. Persons 16 years old and over who worked 1 or more weeks according to the criteria described below are classified as "Worked in 1989." All other persons 16 years old and over are classified as "Did not work in 1989." Some tabulations showing work status in 1989 include 15 year olds; these persons, by definition, are classified as "Did not work in 1989."

## Weeks Worked in 1989

The data on weeks worked in 1989 were derived from responses to questionnaire item 31b. Question 31b (Weeks Worked in 1989) was asked of persons 16 years old and over who indicated in question 31a that they worked in 1989.

The data pertain to the number of weeks during 1989 in which a person did any work for pay or profit (including paid vacation and paid sick leave) or worked without pay on a family farm or in a family business. Weeks of active service in the Armed Forces are also included.

## Usual Hours Worked Per Week Worked in 1989

The data on usual hours worked per week worked in 1989 were derived from answers to questionnaire item 31c. This question was asked of persons 16 years old and over who indicated that they worked in 1989.

The data pertain to the number of hours a person usually worked during the weeks worked in 1989. The respondent was to report the number of hours worked per week in the majority of the weeks he or she worked in 1989. If the hours worked per week varied considerably during 1989, the respondent was to report an approximate average of the hours worked per week. The statistics on usual hours worked per week in 1989 are not necessarily related to the data on actual hours worked during the census reference week (question 21b).

Persons 16 years old and over who reported that they usually worked 35 or more hours each week during the weeks they worked are classified as "Usually worked full time;" persons who reported that they usually worked 1 to 34 hours are classified as "Usually worked part time."

**Year-Round Full-Time Workers**—All persons 16 years old and over who usually worked 35 hours or more per week for 50 to 52 weeks in 1989.

**Number of Workers in Family in 1989**—The term "worker" as used for these data is defined based on the criteria for Work Status in 1989.

**Limitation of the Data**—It is probable that the number of persons who worked in 1989 and the number of weeks worked are understated since there was some tendency for respondents to forget intermittent or short periods of employment or to exclude weeks worked without pay. There may also be a tendency for persons not to include weeks of paid vacation among their weeks worked; one result may be that the census figures may understate the number of persons who worked "50 to 52 weeks."

**Comparability**—The data on weeks worked collected in the 1990 census were comparable with data from the 1980, 1970, and 1960 censuses, but may not be entirely comparable with data from the 1940 and 1950 censuses. Since the 1960 census, two separate questions have been used to obtain this information. The first identified persons with any work experience during the year and, thus, indicated those persons for whom the questions on number of weeks worked applied. In 1940 and 1950, however, the questionnaires contained only a single question on number of weeks worked.

In 1970, persons responded to the question on weeks worked by indicating one of six weeks-worked intervals. In 1980 and 1990, persons were asked to enter the specific number of weeks they worked.

## YEAR OF ENTRY

The data on year of entry were derived from answers to questionnaire item 10, which was asked of a sample of persons. The question, "When did this person come to the United States to stay?" was asked of persons who indicated in the question on citizenship that they were not born in the United States. (For more information, see the discussion under "Citizenship.")

The 1990 census questions, tabulations, and census data products about citizenship and year of entry include no reference to immigration. All persons who were born and resided outside the United States before becoming residents of the United States have a date of entry. Some of these persons are U.S. citizens by birth (e.g., persons born in Puerto Rico or born abroad of American parents). To avoid any possible confusion concerning the date of entry of persons who are U.S. citizens by birth, the term, "year of entry" is used in this report instead of the term "year of immigration."

**Limitation of the Data**—The census questions on nativity, citizenship, and year of entry were not designed to measure the degree of permanence of residence in the United States. The phrase, "to stay" was used to obtain the year in which the person became a resident of the United States. Although the respondent was directed to indicate the year he or she entered the country "to stay," it was difficult to ensure that respondents interpreted the phrase correctly.

**Comparability**—A question on year of entry, (alternately called "year of immigration") was asked in each decennial census from 1890 to 1930, 1970, and 1980. In 1980, the question on year of entry included six arrival time intervals. The number of arrival intervals was expanded to ten in 1990. In 1980, the question on year of entry was asked only of the foreign-born population. In 1990, all persons who responded to the long-form questionnaire and were not born in the United States were to complete the question on year of entry.

## HOUSING CHARACTERISTICS

### LIVING QUARTERS

Living quarters are classified as either housing units or group quarters. (For more information, see the discussion of "Group Quarters" under Population Characteristics.) Usually, living quarters are in structures intended for residential use (for example, a one-family home, apartment house, hotel or motel, boarding house, or mobile home). Living quarters also may be in structures intended for nonresidential use (for example, the rooms in a warehouse where a guard lives), as well as in places such as tents, vans, shelters for the homeless, dormitories, barracks, and old railroad cars.

**Housing Units**—A housing unit is a house, an apartment, a mobile home or trailer, a group of rooms or a single room occupied as separate living quarters or, if vacant, intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from outside the building or through a common hall.

The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements. For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible. If that information cannot be obtained, the criteria are applied to the previous occupants.

Both occupied and vacant housing units are included in the housing unit inventory, except that recreational vehicles, boats, vans, tents, railroad cars, and the like are included only if they are occupied as someone's usual place of residence. Vacant mobile homes are included provided they are intended for occupancy on the site where they stand. Vacant mobile homes on dealers' sales lots, at the factory, or in storage yards are excluded from the housing inventory.

If the living quarters contains nine or more persons unrelated to the householder or person in charge (a total of at least 10 unrelated persons), it is classified as group quarters. If the living quarters contains eight or fewer persons unrelated to the householder or person in charge, it is classified as a housing unit.

**Occupied Housing Units**—A housing unit is classified as occupied if it is the usual place of residence of the person or group of persons living in it at the time of enumeration, or if the occupants are only temporarily absent; that is, away on vacation or business. If all the persons staying in the unit at the time of the census have their usual place of residence elsewhere, the unit is classified as vacant. A household includes all the persons who occupy a housing unit as their usual place of residence. By definition, the count of occupied housing units for 100-percent tabulations is the same as the count of households or householders. In sample tabulations, the counts of household and occupied housing units may vary slightly because of different sample weighting methods.

**Vacant Housing Units**—A housing unit is vacant if no one is living in it at the time of enumeration, unless its occupants are only temporarily absent. Units temporarily occupied at the time of enumeration entirely by persons who have a usual residence elsewhere also are classified as vacant. (For more information, see discussion under "Usual Home Elsewhere.")

New units not yet occupied are classified as vacant housing units if construction has reached a point where all exterior windows and doors are installed and final

usable floors are in place. Vacant units are excluded if they are open to the elements; that is, the roof, walls, windows, and/or doors no longer protect the interior from the elements, or if there is positive evidence (such as a sign on the house or in the block) that the unit is condemned or is to be demolished. Also excluded are quarters being used entirely for nonresidential purposes, such as a store or an office, or quarters used for the storage of business supplies or inventory, machinery, or agricultural products.

**Hotels, Motels, Rooming Houses, Etc.**—Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; that is, persons who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only in those hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

If any of the occupants in a rooming or boarding house live and eat separately from others in the building and have direct access, their quarters are classified as separate housing units.

**Staff Living Quarters**—The living quarters occupied by staff personnel within any group quarters are separate housing units if they satisfy the housing unit criteria of separateness and direct access; otherwise, they are considered group quarters.

**Comparability**—The first Census of Housing in 1940 established the "dwelling unit" concept. Although the term became "housing unit" and the definition has been modified slightly in succeeding censuses, the 1990 definition is essentially comparable to previous censuses. There was no change in the housing unit definition between 1980 and 1990.

## ACREAGE

The data on acreage were obtained from questionnaire items H5a and H19a. Question H5a was asked at all occupied and vacant one-family houses and mobile homes. Question H19a was asked on a sample basis at occupied and vacant one-family houses and mobile homes.

Question H5a asks whether the house or mobile home is located on a place of 10 or more acres. The intent of this item is to exclude owner-occupied and renter-occupied one-family houses on 10 or more acres from the specified owner- and renter-occupied universes for value and rent tabulations.

Question H19a provides data on whether the unit is located on less than 1 acre. The main purpose of this item, in conjunction with question H19b on agricultural sales, is to identify farm units. (For more information, see discussion under "Farm Residence.")

For both items, the land may consist of more than one tract or plot. These tracts or plots are usually adjoining; however, they may be separated by a road, creek, another piece of land, etc.

**Comparability**—Question H5a is similar to that asked in 1970 and 1980. This item was asked for the first time of mobile home occupants in 1990. Question H19a is an abbreviated form of a question asked on a sample basis in 1980. In previous censuses, information on city or suburban lot and number of acres was obtained also.

## AGRICULTURAL SALES

Data on the sales of agricultural crops were obtained from questionnaire item H19b, which was asked on a sample basis at occupied one-family houses and mobile homes located on lots of 1 acre or more. Data for this item exclude units on lots of less than 1 acre, units located in structures containing 2 or more units, and all vacant units. This item refers to the total amount (before taxes and expenses) received in 1989 from the sale of crops, vegetables, fruits, nuts, livestock and livestock products, and nursery and forest products, produced on "this property." Respondents new to a unit were asked to estimate total agricultural sales in 1989 even if some portion of the sales had been made by other occupants of the unit.

This item is used mainly to classify housing units as farm or nonfarm residences, not to provide detailed information on the sale of agricultural products. Detailed information on the sale of agricultural products is provided by the Census Bureau's Census of Agriculture (*Factfinder for the Nation: Agricultural Statistics*, Bureau of the Census, 1989). (For more information, see the discussion under "Farm Residence.")

## BEDROOMS

The data on bedrooms were obtained from questionnaire item H9, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. The number of bedrooms is the count of rooms designed to be used as bedrooms; that is, the number of rooms that would be listed as bedrooms if the house or apartment were on the market for sale or for rent. Included are all rooms intended to be used as bedrooms even if they currently are being used for some other purpose. A housing unit consisting of only one room, such as a one-room efficiency apartment, is classified, by definition, as having no bedroom.

**Comparability**—Data on bedrooms have been collected in every census since 1960. In 1970 and 1980, data for bedrooms were shown only for year-round units. In past censuses, a room was defined as a bedroom if it was used mainly for sleeping even if also

used for other purposes. Rooms that were designed to be used as bedrooms but used mainly for other purposes were not considered to be bedrooms. A distribution of housing units by number of bedrooms calculated from data collected in a 1986 test showed virtually no differences in the two versions except in the two bedroom category, where the previous "use" definition showed a slightly lower proportion of units.

## BOARDED-UP STATUS

Boarded-up status was obtained from questionnaire item C2 and was determined for all vacant units. Boarded-up units have windows and doors covered by wood, metal, or masonry to protect the interior and to prevent entry into the building. A single-unit structure, a unit in a multi-unit structure, or an entire multi-unit structure may be boarded-up in this way. For certain census data products, boarded-up units are shown only for units in the "Other vacant" category. A unit classified as "Usual home elsewhere" can never be boarded up. (For more information, see the discussion under "Usual Home Elsewhere.")

**Comparability**—This item was first asked in the 1980 census and was shown only for year-round vacant housing units. In 1990, data are shown for all vacant housing units.

## BUSINESS ON PROPERTY

The data for business on property were obtained from questionnaire item H5b, which was asked at all occupied and vacant one-family houses and mobile homes. This question is used to exclude owner-occupied one-family houses with business or medical offices on the property from certain statistics on financial characteristics.

A business must be easily recognizable from the outside. It usually will have a separate outside entrance and have the appearance of a business, such as a grocery store, restaurant, or barber shop. It may be either attached to the house or mobile home or be located elsewhere on the property. Those housing units in which a room is used for business or professional purposes and have no recognizable alterations to the outside are *not* considered as having a business. Medical offices are considered businesses for tabulation purposes.

**Comparability**—Data on business on property have been collected since 1940.

## CONDOMINIUM FEE

The data on condominium fee were obtained from questionnaire item H25, which was asked at owner-occupied condominiums. This item was asked on a

sample basis. A condominium fee normally is charged monthly to the owners of the individual condominium units by the condominium owners association to cover operating, maintenance, administrative, and improvement costs of the common property (grounds, halls, lobby, parking areas, laundry rooms, swimming pool, etc.) The costs for utilities and/or fuels may be included in the condominium fee if the units do not have separate meters.

Data on condominium fees may include real estate tax and/or insurance payments for the common property, but do not include real estate taxes or fire, hazard, and flood insurance for the individual unit already reported in questions H21 and H22.

Amounts reported were the regular monthly payment, even if paid by someone outside the household or remain unpaid. Costs were estimated as closely as possible when exact costs were not known.

The data from this item were added to payments for mortgages (both first and junior mortgages and home equity loans); real estate taxes; fire, hazard, and flood insurance payments; and utilities and fuels to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for condominium owners.

**Comparability**—This is a new item in 1990.

## CONDOMINIUM STATUS

The data on condominium housing units were obtained from questionnaire item H18, which was asked on a sample basis at both occupied and vacant housing units. Condominium is a type of ownership that enables a person to own an apartment or house in a development of similarly owned units and to hold a common or joint ownership in some or all of the common areas and facilities such as land, roof, hallways, entrances, elevators, swimming pool, etc. Condominiums may be single-family houses as well as units in apartment buildings. A condominium unit need not be occupied by the owner to be counted as such. A unit classified as "mobile home or trailer" or "other" (see discussion under "Units in Structure") cannot be a condominium unit.

**Limitation of the Data**—Testing done prior to the 1980 and 1990 censuses indicated that the number of condominiums may be slightly overstated.

**Comparability**—In 1970, condominiums were grouped together with cooperative housing units, and the data were reported only for owner-occupied cooperatives and condominiums. Beginning in 1980, the census identified all condominium units and the data were shown for renter-occupied and vacant year-round condominiums as well as owner occupied. In 1970 and 1980, the question on condominiums was asked on a 100-percent basis. In 1990, it was asked on a sample basis.

## CONTRACT RENT

The data on contract rent (also referred to as "rent asked" for vacant units) were obtained from questionnaire item H7a, which was asked at all occupied housing units that were rented for cash rent and all vacant housing units that were for rent at the time of enumeration.

Housing units that are renter occupied without payment of cash rent are shown separately as "No cash rent" in census data products. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. Rent-free houses or apartments may be provided to compensate caretakers, ministers, tenant farmers, sharecroppers, or others.

Contract rent is the monthly rent agreed to or contracted for, regardless of any furnishings, utilities, fees, meals, or services that may be included. For vacant units, it is the monthly rent asked for the rental unit at the time of enumeration.

If the contract rent includes rent for a business unit or for living quarters occupied by another household, the respondent was instructed to report that part of the rent estimated to be for his or her unit only. Respondents were asked to report rent only for the housing unit enumerated and to exclude any rent paid for additional units or for business premises.

If a renter pays rent to the owner of a condominium or cooperative, and the condominium fee or cooperative carrying charge is also paid by the renter to the owner, the respondent was instructed to include the fee or carrying charge.

If a renter receives payments from lodgers or roomers who are listed as members of the household, the respondent was instructed to report the rent without deduction for any payments received from the lodgers or roomers. The respondent was instructed to report the rent agreed to or contracted for even if paid by someone else such as friends or relatives living elsewhere, or a church or welfare agency.

In some tabulations, contract rent is presented for all renter-occupied housing units, as well as specified renter-occupied and vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 10 or more acres. (For more information on rent, see the discussion under "Gross Rent.")

**Median and Quartile Contract Rent**—The median divides the rent distribution into two equal parts. Quartiles divide the rent distribution into four equal parts. In computing median and quartile contract rent, units reported as "No cash rent" are excluded. Median and quartile rent calculations are rounded to the nearest whole dollar. (For more information on medians and quartiles, see the discussion under "Derived Measures.")

**Aggregate Contract Rent**—To calculate aggregate contract rent, the amount assigned for the category "Less than \$80" is \$50. The amount assigned to the category "\$1,000 or more" is \$1,250. Mean contract rent is rounded to the nearest whole dollar. (For more information on aggregates and means, see the discussion under "Derived Measures.")

**Limitation of the Data**—In the 1970 and 1980 censuses, contract rent for vacant units had high allocation rates, about 35 percent.

**Comparability**—Data on this item have been collected since 1930. For 1990, quartiles were added because the range of rents and values in the United States has increased in recent years. Upper and lower quartiles can be used to note large rent and value differences among various geographic areas.

## DURATION OF VACANCY

The data for duration of vacancy (also referred to as "months vacant") were obtained from questionnaire item D, which was completed by census enumerators. The statistics on duration of vacancy refer to the length of time (in months and years) between the date the last occupants moved from the unit and the time of enumeration. The data, therefore, do not provide a direct measure of the total length of time units remain vacant.

For newly constructed units which have never been occupied, the duration of vacancy is counted from the date construction was completed. For recently converted or merged units, the time is reported from the date conversion or merger was completed. Units occupied by an entire household with a usual home elsewhere are assigned to the "Less than 1 month" interval.

**Comparability**—Similar data have been collected since 1960. In 1970 and 1980, these data were shown only for year-round vacant housing units. In 1990, these data are shown for all vacant housing units.

## FARM RESIDENCE

The data on farm residence were obtained from questionnaire items H19a and H19b. An occupied one-family house or mobile home is classified as a farm residence if: (1) the housing unit is located on a property of 1 acre or more, and (2) at least \$1,000 worth of agricultural products were sold from the property in 1989. Group quarters and housing units that are in multi-unit buildings or vacant are not included as farm residences.

A one-family unit occupied by a tenant household paying cash rent for land and buildings is enumerated as a farm residence only if sales of agricultural products from its yard (as opposed to the general property on



which it is located) amounted to at least \$1,000 in 1989. A one-family unit occupied by a tenant household that does not pay cash rent is enumerated as a farm residence if the remainder of the farm (including its yard) qualifies as a farm.

Farm residence is provided as an independent data item only for housing units located in rural areas. It may be derived for housing units in urban areas from the data items on acreage and sales of agricultural products on the public-use microdata sample (PUMS) files. (For more information on PUMS, see Appendix F, Data Products and User Assistance.)

The farm population consists of persons in households living in farm residences. Some persons who are counted on a property classified as a farm (including in some cases farm workers) are excluded from the farm population. Such persons include those who reside in multi-unit buildings or group quarters.

**Comparability**—These are the same criteria that were used to define a farm residence in 1980. In 1960 and 1970, a farm was defined as a place of 10 or more acres with at least \$50 worth of agricultural sales or a place of less than 10 acres with at least \$250 worth of agricultural sales. Earlier censuses used other definitions. Note that the definition of a farm residence differs from the definition of a farm in the Census of Agriculture (*Factfinder for the Nation: Agricultural Statistics*, Bureau of the Census, 1989).

## GROSS RENT

Gross rent is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else). Gross rent is intended to eliminate differentials which result from varying practices with respect to the inclusion of utilities and fuels as part of the rental payment. The estimated costs of utilities and fuels are reported on a yearly basis but are converted to monthly figures for the tabulations. Renter units occupied without payment of cash rent are shown separately as "No cash rent" in the tabulations. Gross rent is calculated on a sample basis.

**Comparability**—Data on gross rent have been collected since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

## GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

Gross rent as a percentage of household income in 1989 is a computed ratio of monthly gross rent to monthly household income (total household income in

1989 divided by 12). The ratio was computed separately for each unit and was rounded to the nearest whole percentage. Units for which no cash rent is paid and units occupied by households that reported no income or a net loss in 1989 comprise the category "Not computed." This item is calculated on a sample basis.

## HOUSE HEATING FUEL

The data on house heating fuel were obtained from questionnaire item H14, which was asked at occupied housing units. This item was asked on a sample basis. The data show the type of fuel used most to heat the house or apartment.

**Utility Gas**—Includes gas piped through underground pipes from a central system to serve the neighborhood.

**Bottled, Tank, or LP Gas**—Includes liquid propane gas stored in bottles or tanks which are refilled or exchanged when empty.

**Fuel Oil, Kerosene, Etc.**—Includes fuel oil, kerosene, gasoline, alcohol, and other combustible liquids.

**Wood**—Includes purchased wood, wood cut by household members on their property or elsewhere, driftwood, sawmill or construction scraps, or the like.

**Solar Energy**—Includes heat provided by sunlight which is collected, stored, and actively distributed to most of the rooms.

**Other Fuel**—Includes all other fuels not specified elsewhere.

**No Fuel Used**—Includes units that do not use any fuel or that do not have heating equipment.

**Comparability**—Data on house heating fuel have been collected since 1940. The category, "Solar energy" is new for 1990.

## INSURANCE FOR FIRE, HAZARD, AND FLOOD

The data on fire, hazard, and flood insurance were obtained from questionnaire item H22, which was asked at a sample of owner-occupied one-family houses, condominiums, and mobile homes. The statistics for this item refer to the annual premium for fire, hazard, and flood insurance on the property (land and buildings); that is, policies that protect the property and its contents against loss due to damage by fire, lightning, winds, hail, flood, explosion, and so on.

Liability policies are included only if they are paid with the fire, hazard, and flood insurance premiums and the amounts for fire, hazard, and flood cannot be separated. Premiums are included even if paid by someone outside

the household or remain unpaid. When premiums are paid on other than a yearly basis, the premiums are converted to a yearly basis.

The payment for fire, hazard, and flood insurance is added to payments for real estate taxes, utilities, fuels, and mortgages (both, first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

A separate question (H23d) determines whether insurance premiums are included in the mortgage payment to the lender(s). This makes it possible to avoid counting these premiums twice in the computations.

**Comparability**—Data on payment for fire and hazard insurance were collected for the first time in 1980. Flood insurance was not specifically mentioned in the wording of the question in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and one-family houses with a business or medical office on the property.

## KITCHEN FACILITIES

Data on kitchen facilities were obtained from questionnaire item H11, which was asked at both occupied and vacant housing units. A unit has complete kitchen facilities when it has all of the following: (1) an installed sink with piped water, (2) a range, cook top and convection or microwave oven, or cookstove, and (3) a refrigerator. All kitchen facilities must be located in the structure. They need not be in the same room. Portable cooking equipment is not considered a range or cookstove. An ice box is not considered to be a refrigerator.

**Comparability**—Data on complete kitchen facilities were collected for the first time in 1970. Earlier censuses collected data on individual components, such as kitchen sink and type of refrigeration equipment. In 1970 and 1980, data for kitchen facilities were shown only for year-round units. In 1990, data are shown for all housing units.

## MEALS INCLUDED IN RENT

The data on meals included in the rent were obtained from questionnaire item H7b, which was asked of all occupied housing units that were rented for cash and all vacant housing units that were for rent at the time of enumeration.

The statistics on meals included in rent are presented for specified renter-occupied and specified vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 10 or more acres. (For more information, see the discussion under "Contract Rent.")

**Comparability**—This is a new item in 1990. It is intended to measure "congregate" housing, which generally is considered to be housing units where the rent includes meals and other services, such as transportation to shopping and recreation.

## MOBILE HOME COSTS

The data on mobile home costs were obtained from questionnaire item H26, which was asked at owner-occupied mobile homes. This item was asked on a sample basis.

These data include the total yearly costs for personal property taxes, land or site rent, registration fees, and license fees on all owner-occupied mobile homes. The instructions are to not include real estate taxes already reported in question H21.

Costs are estimated as closely as possible when exact costs are not known. Amounts are the total for an entire 12-month billing period, even if they are paid by someone outside the household or remain unpaid.

The data from this item are added to payments for mortgages, real estate taxes, fire, hazard, and flood insurance payments, utilities, and fuels to derive selected monthly owner costs for mobile homes owners.

**Comparability**—This item is new for 1990.

## MORTGAGE PAYMENT

The data on mortgage payment were obtained from questionnaire item H23b, which was asked at owner-occupied one-family houses, condominiums, and mobile homes. This item was asked on a sample basis. Question H23b provides the regular monthly amount required to be paid the lender for the first mortgage (deed of trust, contract to purchase, or similar debt) on the property. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

The amounts reported include everything paid to the lender including principal and interest payments, real estate taxes, fire, hazard, and flood insurance payments, and mortgage insurance premiums. Separate questions determine whether real estate taxes and fire, hazard, and flood insurance payments are included in

the mortgage payment to the lender. This makes it possible to avoid counting these components twice in the computation of "Selected Monthly Owner Costs."

**Comparability**—Information on mortgage payment was collected for the first time in 1980. It was collected only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, one-family houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions on monthly mortgage payments were asked of all owner-occupied one-family houses, including one-family houses on 10 or more acres. They were also asked at mobile homes, condominiums, and one-family houses with a business or medical office.

The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from a single question. Two questions were used in 1990; one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages or home equity loans. (For more information, see the discussion under "Second or Junior Mortgage Payment.")

## MORTGAGE STATUS

The data on mortgage status were obtained from questionnaire items H23a and H24a, which were asked at owner-occupied one-family houses, condominiums, and mobile homes. "Mortgage" refers to all forms of debt where the property is pledged as security for repayment of the debt. It includes such debt instruments as deeds of trust, trust deeds, contracts to purchase, land contracts, junior mortgages and home equity loans.

A mortgage is considered a first mortgage if it has prior claim over any other mortgage or if it is the only mortgage on the property. All other mortgages, (second, third, etc.) are considered junior mortgages. A home equity loan is generally a junior mortgage. If no first mortgage is reported, but a junior mortgage or home equity loan is reported, then the loan is considered a first mortgage.

In most census data products, the tabulations for "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" usually are shown separately for units "with a mortgage" and for units "not mortgaged." The category "not mortgaged" is comprised of housing units owned free and clear of debt.

**Comparability**—A question on mortgage status was included in the 1940 and 1950 censuses, but not in the 1960 and 1970 censuses. The item was reinstated in 1980 along with a separate question dealing with the existence of second or junior mortgages. In 1980, the mortgage status questions were asked at owner-occupied

one-family houses on less than 10 acres. Excluded were mobile homes, condominiums, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions were asked of all one-family owner-occupied housing units, including houses on 10 or more acres. They were also asked at mobile homes, condominiums, and houses with a business or medical office.

## PERSONS IN UNIT

This item is based on the 100-percent count of persons in occupied housing units. All persons occupying the housing unit are counted, including the householder, occupants related to the householder, and lodgers, roomers, boarders, and so forth.

The data on "persons in unit" show the number of housing units occupied by the specified number of persons. The phrase "persons in unit" is used for housing tabulations, "persons in households" for population items. Figures for "persons in unit" match those for "persons in household" for 100-percent data products. In sample products, they may differ because of the weighting process.

**Median Persons in Unit**—In computing median persons in unit, a whole number is used as the midpoint of an interval; thus, a unit with 4 persons is treated as an interval ranging from 3.5 to 4.5 persons. Median persons is rounded to the nearest hundredth. (For more information on medians, see the discussion under "Derived Measures.")

**Persons in Occupied Housing Units**—This is the total population minus those persons living in group quarters. "Persons per occupied housing unit" is computed by dividing the population living in housing units by the number of occupied housing units.

## PERSONS PER ROOM

"Persons per room" is obtained by dividing the number of persons in each occupied housing unit by the number of rooms in the unit. Persons per room is rounded to the nearest hundredth. The figures shown refer, therefore, to the number of occupied housing units having the specified ratio of persons per room.

**Mean Persons Per Room**—This is computed by dividing persons in housing units by the aggregate number of rooms. This is intended to provide a measure of utilization. A higher mean may indicate a greater degree of utilization or crowding; a low mean may indicate underutilization. (For more information on means, see the discussion under "Derived Measures.")

## PLUMBING FACILITIES

The data on plumbing facilities were obtained from questionnaire item H10, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Complete plumbing facilities include hot and cold piped water, a flush toilet, and a bathtub or shower. All three facilities must be located inside the house, apartment, or mobile home, but not necessarily in the same room. Housing units are classified as lacking complete plumbing facilities when any of the three facilities are not present.

**Comparability**—The 1990 data on complete plumbing facilities are not strictly comparable with the 1980 data. In 1980, complete plumbing facilities were defined as hot and cold piped water, a bathtub or shower, and a flush toilet in the housing unit for the exclusive use of the residents of that unit. In 1990, the Census Bureau dropped the requirement of exclusive use from the definition of complete plumbing facilities. Of the 2.3 million year-round housing units classified in 1980 as lacking complete plumbing for exclusive use, approximately 25 percent of these units had complete plumbing but the facilities were also used by members of another household. From 1940 to 1970, separate and more detailed questions were asked on piped water, bathing, and toilet facilities. In 1970 and 1980, the data on plumbing facilities were shown only for year-round units.

## POVERTY STATUS OF HOUSEHOLDS IN 1989

The data on poverty status of households were derived from answers to the income questions. The income items were asked on a sample basis. Households are classified below the poverty level when the total 1989 income of the family or of the nonfamily householder is below the appropriate poverty threshold. The income of persons living in the household who are unrelated to the householder is not considered when determining the poverty status of a household, nor does their presence affect the household size in determining the appropriate poverty threshold. The poverty thresholds vary depending upon three criteria: size of family, number of children, and age of the family householder or unrelated individual for one and two-persons households. (For more information, see the discussion of "Poverty Status in 1989" and "Income in 1989" under Population Characteristics.)

## REAL ESTATE TAXES

The data on real estate taxes were obtained from questionnaire item H21, which was asked at owner-occupied one-family houses, condominiums, and mobile homes. The statistics from this question refer to the total amount of all real estate taxes on the entire

property (land and buildings) payable in 1989 to all taxing jurisdictions, including special assessments, school taxes, county taxes, and so forth.

Real estate taxes include State, local, and all other real estate taxes even if delinquent, unpaid, or paid by someone who is not a member of the household. However, taxes due from prior years are not included. If taxes are paid on other than a yearly basis, the payments are converted to a yearly basis.

The payment for real estate taxes is added to payments for fire, hazard, and flood insurance; utilities and fuels; and mortgages (both first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989." A separate question (H23c) determines whether real estate taxes are included in the mortgage payment to the lender(s). This makes it possible to avoid counting taxes twice in the computations.

**Comparability**—Data for real estate taxes were collected for the first time in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes or trailers, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and one-family houses with a business or medical office on the property.

## ROOMS

The data on rooms were obtained from questionnaire item H3, which was asked at both occupied and vacant housing units. The statistics on rooms are in terms of the number of housing units with a specified number of rooms. The intent of this question is to count the number of whole rooms used for living purposes.

For each unit, rooms include living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, enclosed porches suitable for year-round use, and lodger's rooms. Excluded are strip or pullman kitchens, bathrooms, open porches, balconies, halls or foyers, half-rooms, utility rooms, unfinished attics or basements, or other unfinished space used for storage. A partially divided room is a separate room only if there is a partition from floor to ceiling, but not if the partition consists solely of shelves or cabinets.

**Median Rooms**—This measure divides the room distribution into two equal parts, one-half of the cases falling below the median number of rooms and one-half above the median. In computing median rooms, the whole number is used as the midpoint of the interval; thus, the category "3 rooms" is treated as an interval ranging

from 2.5 to 3.5 rooms. Median rooms is rounded to the nearest tenth. (For more information on medians, see the discussion under "Derived Measures.")

**Aggregate Rooms**—To calculate aggregate rooms, an arbitrary value of "10" is assigned to rooms for units falling within the terminal category, "9 or more." (For more information on aggregates and means, see the discussion under "Derived Measures.")

**Comparability**—Data on rooms have been collected since 1940. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are shown for all housing units.

## SECOND OR JUNIOR MORTGAGE PAYMENT

The data on second or junior mortgage payments were obtained from questionnaire items H24a and H24b, which were asked of owner-occupied one-family houses, condominiums, and mobile homes. Question H24a asks whether a second or junior mortgage or a home equity loan exists on the property. Question H24b provides the regular monthly amount required to be paid to the lender on all second or junior mortgages and home equity loans. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

All mortgages other than first mortgages are classified as "junior" mortgages. A second mortgage is a junior mortgage that gives the lender a claim against the property that is second to the claim of the holder of the first mortgage. Any other junior mortgage(s) would be subordinate to the second mortgage. A home equity loan is a line of credit available to the borrower that is secured by real estate. It may be placed on a property that already has a first or second mortgage, or it may be placed on a property that is owned free and clear.

If the respondents answered that no first mortgage existed, but a second mortgage did (as in the above case with a home equity loan), a computer edit assigned the unit a first mortgage and made the first mortgage monthly payment the amount reported in the second mortgage. The second mortgage data were then made "No" in question H24a and blank in question H24b.

**Comparability**—The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from one single question. Two questions were used in 1990: one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages and home equity loans.

## SELECTED MONTHLY OWNER COSTS

The data on selected monthly owner costs were obtained from questionnaire items H20 through H26 for a sample of owner-occupied one-family houses, condominiums, and mobile homes. Selected monthly owner costs is the sum of payments for mortgages, deeds of trust, contracts to purchase, or similar debts on the property (including payments for the first mortgage, second or junior mortgages, and home equity loans); real estate taxes; fire, hazard, and flood insurance on the property; utilities (electricity, gas, and water); and fuels (oil, coal, kerosene, wood, etc.). It also includes, where appropriate, the monthly condominium fee for condominiums and mobile home costs (personal property taxes, site rent, registration fees, and license fees) for mobile homes.

In certain tabulations, selected monthly owner costs are presented separately for specified owner-occupied housing units (owner-occupied one-family houses on fewer than 10 acres without a business or medical office on the property), owner-occupied condominiums, and owner-occupied mobile homes. Data usually are shown separately for units "with a mortgage" and for units "not mortgaged."

**Median Selected Monthly Owner Costs**—This measure is rounded to the nearest whole dollar.

**Comparability**—The components of selected monthly owner costs were collected for the first time in 1980. The 1990 tabulations of selected monthly owner costs for specified owner-occupied housing units are virtually identical to 1980, the primary difference was the amounts of the first and second mortgages were collected in separate questions in 1990, while the amounts were collected in a single question in 1980. The component parts of the item were tabulated for mobile homes and condominiums for the first time in 1990.

In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

## SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

The information on selected monthly owner costs as a percentage of household income in 1989 is the computed ratio of selected monthly owner costs to monthly household income in 1989. The ratio was computed separately for each unit and rounded to the nearest whole percentage. The data are tabulated separately for specified owner-occupied units, condominiums, and mobile homes.

Separate distributions are often shown for units "with a mortgage" and for units "not mortgaged." Units occupied by households reporting no income or a net loss in 1989 are included in the "not computed" category. (For more information, see the discussion under "Selected Monthly Owner Costs.")

**Comparability**—The components of selected monthly owner costs were collected for the first time in 1980. The tabulations of "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for specified owner-occupied housing units are comparable to 1980.

## SEWAGE DISPOSAL

The data on sewage disposal were obtained from questionnaire item H16, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Housing units are either connected to a public sewer, to a septic tank or cesspool, or they dispose of sewage by other means. A public sewer may be operated by a government body or by a private organization. A housing unit is considered to be connected to a septic tank or cesspool when the unit is provided with an underground pit or tank for sewage disposal. The category, "Other means" includes housing units which dispose of sewage in some other way.

**Comparability**—Data on sewage disposal have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

## SOURCE OF WATER

The data on source of water were obtained from questionnaire item H15, which was asked at both occupied and vacant housing units. Housing units may receive their water supply from a number of sources. A common source supplying water to five or more units is classified as a "Public system or private company." The water may be supplied by a city, county, water district, water company, etc., or it may be obtained from a well which supplies water to five or more housing units. If the water is supplied from a well serving four or fewer housing units, the units are classified as having water supplied by either an "Individual drilled well" or an "Individual dug well." Drilled wells or small diameter wells are usually less than 1-1/2 feet in diameter. Dug wells are usually larger than 1-1/2 feet wide and generally hand dug. The category, "Some other source" includes water obtained from springs, creeks, rivers, lakes, cisterns, etc.

**Comparability**—Data on source of water have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

## TELEPHONE IN HOUSING UNIT

The data on telephones were obtained from questionnaire item H12, which was asked at occupied housing units. This item was asked on a sample basis. A telephone must be inside the house or apartment for the unit to be classified as having a telephone. Units where the respondent uses a telephone located inside the building but not in the respondent's living quarters are classified as having no telephone.

**Comparability**—Data on telephones in 1980 are comparable to 1990. The 1960 and 1970 censuses collected data on telephone availability. A unit was classified as having a telephone available if there was a telephone number on which occupants of the unit could be reached. The telephone could have been in another unit, in a common hall, or outside the building.

## TENURE

The data for tenure were obtained from questionnaire item H4, which was asked at all occupied housing units. All occupied housing units are classified as either owner occupied or renter occupied.

**Owner Occupied**—A housing unit is owner occupied if the owner or co-owner lives in the unit even if it is mortgaged or not fully paid for. The owner or co-owner must live in the unit and usually is the person listed in column 1 of the questionnaire. The unit is "Owned by you or someone in this household with a mortgage or loan" if it is being purchased with a mortgage or some other debt arrangement such as a deed of trust, trust deed, contract to purchase, land contract, or purchase agreement. The unit is also considered owned with a mortgage if it is built on leased land and there is a mortgage on the unit.

A housing unit is "Owned by you or someone in this household free and clear (without a mortgage)" if there is no mortgage or other similar debt on the house, apartment, or mobile home including units built on leased land if the unit is owned outright without a mortgage. Although owner-occupied units are divided between mortgaged and owned free and clear on the questionnaire, census data products containing 100-percent data show only total owner-occupied counts. More extensive mortgage information was collected on the long-form questionnaire and are shown in census products containing sample data. (For more information, see the discussion under "Mortgage Status.")

**Renter Occupied**—All occupied housing units which are not owner occupied, whether they are rented for cash rent or occupied without payment of cash rent, are classified as renter occupied. "No cash rent" units are separately identified in the rent tabulations. Such units

are generally provided free by friends or relatives or in exchange for services such as resident manager, caretaker, minister, or tenant farmer. Housing units on military bases also are classified in the "No cash rent" category. "Rented for cash rent" includes units in continuing care, sometimes called life care arrangements. These arrangements usually involve a contract between one or more individuals and a health services provider guaranteeing the individual shelter, usually a house or apartment, and services, such as meals or transportation to shopping or recreation.

**Comparability**—Data on tenure have been collected since 1890. In 1970, the question on tenure also included a category for condominium and cooperative ownership. In 1980, condominium units and cooperatives were dropped from the tenure item, and since 1980, only condominium units are identified in a separate question.

For 1990, the response categories were expanded to allow the respondent to report whether the unit was owned with a mortgage or free and clear (without a mortgage). The distinction between units owned with a mortgage and units owned free and clear was added in 1990 to improve the count of owner-occupied units. Research after the 1980 census indicated some respondents did not consider their units owned if they had a mortgage.

## UNITS IN STRUCTURE

The data on units in structure (also referred to as "type of structure") were obtained from questionnaire item H2, which was asked at all housing units. A structure is a separate building that either has open spaces on all sides or is separated from other structures by dividing walls that extend from ground to roof. In determining the number of units in a structure, all housing units, both occupied and vacant, are counted. Stores and office space are excluded.

The statistics are presented for the number of housing units in structures of specified type and size, not for the number of residential buildings.

**1-Unit, Detached**—This is a 1-unit structure detached from any other house; that is, with open space on all four sides. Such structures are considered detached even if they have an adjoining shed or garage. A one-family house that contains a business is considered detached as long as the building has open space on all four sides. Mobile homes or trailers to which one or more permanent rooms have been added or built also are included.

**1-Unit, Attached**—This is a 1-unit structure that has one or more walls extending from ground to roof separating it from adjoining structures. In row houses (sometimes called townhouses), double houses, or houses

attached to nonresidential structures, each house is a separate, attached structure if the dividing or common wall goes from ground to roof.

**2 or More Units**—These are units in structures containing 2 or more housing units, further categorized as units in structures with 2, 3 or 4, 5 to 9, 10 to 19, 20 to 49, and 50 or more units.

**Mobile Home or Trailer**—Both occupied and vacant mobile homes to which no permanent rooms have been added are counted in this category. Mobile homes or trailers used only for business purposes or for extra sleeping space and mobile homes or trailers for sale on a dealer's lot, at the factory, or in storage are not counted in the housing inventory.

**Other**—This category is for any living quarters occupied as a housing unit that does not fit the previous categories. Examples that fit this category are houseboats, railroad cars, campers, and vans.

**Comparability**—Data on units in structure have been collected since 1940 and on mobile homes and trailers since 1950. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are shown for all housing units. In 1980, the data were collected on a sample basis. The category, "Boat, tent, van, etc." was replaced in 1990 by the category "Other." In some areas, the proportion of units classified as "Other" is far larger than the number of units that were classified as "Boat, tent, van, etc." in 1980.

## USUAL HOME ELSEWHERE

The data for usual home elsewhere are obtained from questionnaire item B, which was completed by census employees. A housing unit temporarily occupied at the time of enumeration entirely by persons with a usual residence elsewhere is classified as vacant. The occupants are classified as having a "Usual home elsewhere" and are counted at the address of their usual place of residence. Typical examples are people in a vacation home, persons renting living quarters temporarily for work, and migrant workers.

**Limitation of the Data**—Evidence from previous censuses suggests that in some areas enumerators marked units as "vacant—usual home elsewhere" when they should have marked "vacant—regular."

**Comparability**—Data for usual home elsewhere was tabulated for the first time in 1980.

## UTILITIES

The data on utility costs were obtained from questionnaire items H20a through H20d, which were asked of occupied housing units. These items were asked on a sample basis.

Questions H20a through H20d asked for the yearly cost of utilities (electricity, gas, water) and other fuels (oil, coal, wood, kerosene, etc.). For the tabulations, these yearly amounts are divided by 12 to derive the average monthly cost and are then included in the computation of "Gross Rent," "Gross Rent as a Percentage of Household Income in 1989," "Selected Monthly Owner Costs," and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

Costs are recorded if paid by or billed to occupants, a welfare agency, relatives, or friends. Costs that are paid by landlords, included in the rent payment, or included in condominium or cooperative fees are excluded.

**Limitation of the Data**—Research has shown that respondents tended to overstate their expenses for electricity and gas when compared to utility company records. There is some evidence that this overstatement is reduced when yearly costs are asked rather than monthly costs. Caution should be exercised in using these data for direct analysis because costs are not reported for certain kinds of units such as renter-occupied units with all utilities included in the rent and owner-occupied condominium units with utilities included in the condominium fee.

**Comparability**—The data on utility costs have been collected since 1980 for owner-occupied housing units, and since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

## VACANCY STATUS

The data on vacancy status were obtained from questionnaire item C1, which was completed by census enumerators. Vacancy status and other characteristics of vacant units were determined by enumerators obtaining information from landlords, owners, neighbors, rental agents, and others. Vacant units are subdivided according to their housing market classification as follows:

**For Rent**—These are vacant units offered "for rent," and vacant units offered either "for rent" or "for sale."

**For Sale Only**—These are vacant units being offered "for sale only," including units in cooperatives and condominium projects if the individual units are offered "for sale only."

**Rented or Sold, Not Occupied**—If any money rent has been paid or agreed upon but the new renter has not moved in as of the date of enumeration, or if the unit has recently been sold but the new owner has not yet moved in, the vacant unit is classified as "rented or sold, not occupied."

**For Seasonal, Recreational, or Occasional Use**—These are vacant units used or intended for use only in certain seasons or for weekend or other occasional use throughout the year.

Seasonal units include those used for summer or winter sports or recreation, such as beach cottages and hunting cabins. Seasonal units also may include quarters for such workers as herders and loggers. Interval ownership units, sometimes called shared-ownership or time-sharing condominiums, also are included here.

**For Migrant Workers**—These include vacant units intended for occupancy by migratory workers employed in farm work during the crop season. (Work in a cannery, a freezer plant, or a food-processing plant is not farm work.)

**Other Vacant**—If a vacant unit does not fall into any of the classifications specified above, it is classified as "other vacant." For example, this category includes units held for occupancy by a caretaker or janitor, and units held for personal reasons of the owner.

**Homeowner Vacancy Rate**—This is the percentage relationship between the number of vacant units for sale and the total homeowner inventory. It is computed by dividing the number of vacant units for sale only by the sum of the owner-occupied units and the number of vacant units that are for sale only.

**Rental Vacancy Rate**—This is the percentage relationship of the number of vacant units for rent to the total rental inventory. It is computed by dividing the number of vacant units for rent by the sum of the renter-occupied units and the number of vacant units for rent.

**Comparability**—Data on vacancy status have been collected since 1940. For 1990, the category, "seasonal/recreational/occasional use" combined vacant units classified in 1980 as "seasonal or migratory" and "held for occasional use." Also, in 1970 and 1980, housing characteristics generally were presented only for year-round units. In 1990, housing characteristics are shown for all housing units.

## VALUE

The data on value (also referred to as "price asked" for vacant units) were obtained from questionnaire item H6, which was asked at housing units that were owned, being bought, or vacant for sale at the time of enumeration. Value is the respondent's estimate of how much the property (house and lot, mobile home and lot, or condominium unit) would sell for if it were for sale. If the house or mobile home was owned or being bought, but the land on which it sits was not, the respondent was



asked to estimate the combined value of the house or mobile home and the land. For vacant units, value was the price asked for the property.

Value was tabulated separately for all owner-occupied and vacant-for-sale housing units, owner-occupied and vacant-for-sale mobile homes or trailers, and specified owner-occupied and specified vacant-for-sale housing units. Specified owner-occupied and specified vacant-for-sale housing units include only one-family houses on fewer than 10 acres without a business or medical office on the property. The data for "specified units" exclude mobile homes, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings.

**Median and Quartile Value**—The median divides the value distribution into two equal parts. Quartiles divide the value distribution into four equal parts. These measures are rounded to the nearest hundred dollars. (For more information on medians and quartiles, see the discussion under "Derived Measures.")

**Aggregate Value**—To calculate aggregate value, the amount assigned for the category "Less than \$10,000" is \$9,000. The amount assigned to the category "\$500,000 or more" is \$600,000. Mean value is rounded to the nearest hundred dollars. (For more information on aggregates and means, see the discussion under "Derived Measures.")

**Comparability**—In 1980, value was asked only at owner-occupied or vacant-for-sale one-family houses on fewer than 10 acres with no business or medical office on the property and at all owner-occupied or vacant-for-sale condominium housing units. Mobile homes were excluded. Value data were presented for specified owner-occupied housing units, specified vacant-for-sale-only housing units, and owner-occupied condominium housing units.

In 1990, the question was asked at all owner-occupied or vacant-for-sale-only housing units with no exclusions. Data presented for specified owner-occupied and specified vacant-for-sale-only housing units will include one-family condominium houses but not condominiums in multi-unit structures since condominium units are now identified only in long-form questionnaires.

For 1990, quartiles have been added because the range of values and rents in the United States has increased in recent years. Upper and lower quartiles can be used to note large value and rent differences among various geographic areas.

## VEHICLES AVAILABLE

The data on vehicles available were obtained from questionnaire item H13, which was asked at occupied housing units. This item was asked on a sample basis. These data show the number of households with a

specified number of passenger cars, vans, and pickup or panel trucks of one-ton capacity or less kept at home and available for the use of household members. Vehicles rented or leased for one month or more, company vehicles, and police and government vehicles are included if kept at home and used for nonbusiness purposes. Dismantled or immobile vehicles are excluded. Vehicles kept at home but used only for business purposes also are excluded.

**Vehicles Per Household**—This is computed by dividing aggregate vehicles available by the number of occupied housing units.

**Limitation of the Data**—The 1980 census evaluations showed that the number of automobiles was slightly overreported; the number of vans and trucks slightly underreported. The statistics do not measure the number of vehicles privately owned or the number of households owning vehicles.

**Comparability**—Data on automobiles available were collected from 1960 to 1980. In 1980, a separate question also was asked on the number of trucks and vans. The data on automobiles and trucks and vans were presented separately and also as a combined vehicles available tabulation. The 1990 data are comparable to the 1980 vehicles available tabulations.

## YEAR HOUSEHOLDER MOVED INTO UNIT

The data on year householder moved into unit were obtained from questionnaire item H8, which was asked at occupied housing units. This item was asked on a sample basis. These data refer to the year of the latest move by the householder. If a householder moved back into a housing unit he or she previously occupied, the year of the latest move was reported. If the householder moved from one apartment to another within the same building, the year the householder moved into the present apartment was reported. The intent is to establish the year the present occupancy by the householder began. The year that the householder moved in is not necessarily the same year other members of the household moved, although in the great majority of cases an entire household moves at the same time.

**Comparability**—In 1960 and 1970, this question was asked of every person and included in population reports. This item in housing tabulations refers to the year the householder moved in. In 1980 and 1990, the question was asked only of the householder.

## YEAR STRUCTURE BUILT

The data on year structure built were obtained from questionnaire item H17, which was asked at both occupied and vacant housing units. This item was asked on

a sample basis. Data on year structure built refer to when the building was first constructed, not when it was remodeled, added to, or converted. For housing units under construction that met the housing unit definition—that is, all exterior windows, doors, and final usable floors were in place—the category “1989 or March 1990” was used. For a houseboat or a mobile home or trailer, the manufacturer's model year was assumed to be the year built. The figures shown in census data products relate to the number of units built during the specified periods that were still in existence at the time of enumeration.

**Median Year Structure Built**—The median divides the distribution into two equal parts. The median is rounded to the nearest calendar year. Median age of housing can be obtained by subtracting median year structure built from 1990. For example, if the median year structure built is 1957, the median age of housing in that area is 33 years (1990 minus 1957).

**Limitation of the Data**—Data on year structure built are more susceptible to errors of response and nonreporting than data on many other items because respondents must rely on their memory or on estimates by persons who have lived in the neighborhood a long time. Available evidence indicates there is underreporting in the older-year-structure-built categories, especially “Built in 1939 or earlier.” The introduction of the “Don't know” category (see the discussion on “Comparability”) may have resulted in relatively higher allocation rates. Data users should refer to the discussion in Appendix C, Accuracy of the Data, and to the allocation tables.

**Comparability**—Data on year structure built were collected for the first time in the 1940 census. Since then, the response categories have been modified to accommodate the 10-year period between each census. In 1990, the category, “Don't Know,” was added in an effort to minimize the response error mentioned in the paragraph above on limitation of the data.

## DERIVED MEASURES

Census data products include various derived measures, such as medians, means, and percentages, as well as certain rates and ratios. Derived measures that round to less than 0.1 are not shown but indicated as zero. In printed reports, zero is indicated by a dash (—).

### Interpolation

Interpolation frequently is used in calculating medians or quartiles based on interval data and in approximating standard errors from tables. Linear interpolation is used to estimate values of a function between two

known values. “Pareto interpolation” is an alternative to linear interpolation. It is used by the Census Bureau in calculating median income within intervals wider than \$2,500. In Pareto interpolation, the median is derived by interpolating between the logarithms of the upper and lower income limits of the median category.

### Mean

This measure represents an arithmetic average of a set of values. It is derived by dividing the sum of a group of numerical items (or aggregate) by the total number of items. Aggregates are used in computing mean values. For example, mean family income is obtained by dividing the aggregate of all income reported by persons in families by the total number of families. (Additional information on means and aggregates is included in the separate explanations of many population and housing subjects.)

### Median

This measure represents the middle value in a distribution. The median divides the total frequency into two equal parts: one-half of the cases fall below the median and one-half of the cases exceed the median. The median is computed on the basis of the distribution as tabulated, which is sometimes more detailed than the distribution shown in specific census publications and other data products.

In reports, if the median falls within the upper interval of the tabulation distribution, the median is shown as the initial value of the interval followed by a plus sign (+); if within the lower interval, the median is shown as the upper value of the category followed by a minus sign (—). For summary tape files, if the median falls within the upper or lower interval, it is set to a specified value. (Additional information on medians is included in the separate explanations of many population and housing subjects.)

### Percentages, Rates, and Ratios

These measures are frequently presented in census products to compare two numbers or two sets of measurements. These comparisons are made in two ways: (1) subtraction, which provides an absolute measure of the difference between two items, and (2) the quotient of two numbers, which provides a relative measure of difference.

### Quartile

This measure divides a distribution into four equal parts. The first quartile (or lower quartile) is the value that defines the upper limit of the lowest one-quarter of the cases. The second quartile is the median. The third quartile (or upper quartile) defines the lower limit of the

upper one-quarter of the cases in the distribution. The difference between the upper and lower quartiles is called the interquartile range. This interquartile range is

less affected by wide variations than is the mean. Quartiles are presented for certain financial characteristics such as housing value and rent.

# APPENDIX C.

## Accuracy of the Data

### CONTENTS

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### INTRODUCTION

The data contained in this data product are based on the 1990 census sample. The data are estimates of the actual figures that would have been obtained from a complete count. Estimates derived from a sample are expected to be different from the 100-percent figures because they are subject to sampling and nonsampling errors. Sampling error in data arises from the selection of persons and housing units to be included in the sample. Nonsampling error affects both sample and 100-percent data, and is introduced as a result of errors that may occur during the collection and processing phases of the census. Provided below is a detailed discussion of both types of errors and a description of the estimation procedures.

### SAMPLE DESIGN

Every person and housing unit in the United States was asked certain basic demographic and housing questions (for example, race, age, marital status, housing value, or rent). A sample of these persons and housing units was asked more detailed questions about such items as income, occupation, and housing costs in addition to the basic demographic and housing information. The primary sampling unit for the 1990 census was the housing unit, including all occupants. For persons living in group quarters, the sampling unit was the person. Persons in group quarters were sampled at a 1-in-6 rate.

The sample designation method depended on the data collection procedures. Approximately 95 percent of the population was enumerated by the mailback procedure. In these areas, the Bureau of the Census either purchased a commercial mailing list, which was updated by the United States Postal Service and Census Bureau field staff, or prepared a mailing list by canvassing and listing each address in the area prior to Census Day. These lists were computerized and the appropriate units

were electronically designated as sample units. The questionnaires were either mailed or hand-delivered to the addresses with instructions to complete and mail back the form.

Housing units in governmental units with a precensus (1988) estimated population of fewer than 2,500 persons were sampled at 1-in-2. Governmental units were defined for sampling purposes as all incorporated places, all counties, all county equivalents such as parishes in Louisiana, and all minor civil divisions in Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin. Housing units in census tracts and block numbering areas (BNA's) with a precensus housing unit count below 2,000 housing units were sampled at 1-in-8 for those portions not in small governmental units (governmental units with a population less than 2,500). Housing units within census tracts and BNA's with 2,000 or more housing units were sampled at 1-in-8 for those portions not in small governmental units.

In list/enumerate areas (about 5 percent of the population), each enumerator was given a blank address register with designated sample lines. Beginning about Census Day, the enumerator systematically canvassed an assigned area and listed all housing units in the address register in the order they were encountered. Completed questionnaires, including sample information for any housing unit listed on a designated sample line, were collected. For all governmental units with fewer than 2,500 persons in list/enumerate areas, a 1-in-2 sampling rate was used. All other list/enumerate areas were sampled at 1-in-6.

Housing units in American Indian reservations, tribal jurisdiction statistical areas, and Alaska Native villages were sampled according to the same criteria as other governmental units, except the sampling rates were based on the size of the American Indian and Alaska Native population in those areas as measured in the 1980 census. Trust lands were sampled at the same rate as their associated American Indian reservations. Census designated places in Hawaii were sampled at the same rate as governmental units because the Census Bureau does not recognize incorporated places in Hawaii.

The purpose of using variable sampling rates was to provide relatively more reliable estimates for small areas and decrease respondent burden in more densely populated areas while maintaining data reliability. When all sampling rates were taken into account across the

Nation, approximately one out of every six housing units in the Nation was included in the 1990 census sample.

## CONFIDENTIALITY OF THE DATA

To maintain the confidentiality required by law (Title 13, United States Code), the Bureau of the Census applies a confidentiality edit to the 1990 census data to assure that published data do not disclose information about specific individuals, households, or housing units. As a result, a small amount of uncertainty is introduced into the estimates of census characteristics. The sample itself provides adequate protection for most areas for which sample data are published since the resulting data are estimates of the actual counts; however, small areas require more protection. The edit is controlled so that the basic structure of the data is preserved.

The confidentiality edit is implemented by selecting a small subset of individual households from the internal sample data files and blanking a subset of the data items on these household records. Responses to those data items were then imputed using the same imputation procedures that were used for nonresponse. A larger subset of households is selected for the confidentiality edit for small areas to provide greater protection for these areas. The editing process is implemented in such a way that the quality and usefulness of the data were preserved.

## ERRORS IN THE DATA

Since statistics in this data product are based on a sample, they may differ somewhat from 100-percent figures that would have been obtained if all housing units, persons within those housing units, and persons living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, etc. The sample estimate also would differ from other samples of housing units, persons within those housing units, and persons living in group quarters. The deviation of a sample estimate from the average of all possible samples is called the sampling error. The standard error of a sample estimate is a measure of the variation among the estimates from all the possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample estimate and its estimated standard error permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples. Described below is the method of calculating standard errors and confidence intervals for the data in this product.

In addition to the variability which arises from the sampling procedures, both sample data and 100-percent data are subject to nonsampling error. Nonsampling

error may be introduced during any of the various complex operations used to collect and process census data. For example, operations such as editing, reviewing, or handling questionnaires may introduce error into the data. A detailed discussion of the sources of non-sampling error is given in the section on "Control of Nonsampling Error" in this appendix.

Nonsampling error may affect the data in two ways. Errors that are introduced randomly will increase the variability of the data and should therefore be reflected in the standard error. Errors that tend to be consistent in one direction will make both sample and 100-percent data biased in that direction. For example, if respondents consistently tend to under-report their income, then the resulting counts of households or families by income category will tend to be understated for the higher income categories and overstated for the lower income categories. Such biases are not reflected in the standard error.

## Calculation of Standard Errors

**Totals and Percentages**—Tables A through C in this appendix contain the information necessary to calculate the standard errors of sample estimates in this data product. To calculate the standard error, it is necessary to know the basic standard error for the characteristic (given in table A or B) that would result under a simple random sample design (of persons, households, or housing units) and estimation technique; the design factor for the particular characteristic estimated (given in table C); and the number of persons or housing units in the tabulation area and the percent of these in the sample. For machine-readable products, the percent-in-sample is included in a data matrix on the file for each tabulation area. In printed reports, the percent-in-sample is provided in data tables at the end of the statistical tables that compose the report. The design factors reflect the effects of the actual sample design and complex ratio estimation procedure used for the 1990 census.

The steps given below should be used to calculate the standard error of an estimate of a total or a percentage contained in this product. A percentage is defined here as a ratio of a numerator to a denominator where the numerator is a subset of the denominator. For example, the proportion of Black teachers is the ratio of Black teachers to all teachers.

1. Obtain the standard error from table A or B (or use the formula given below the table) for the estimated total or percentage, respectively.
2. Find the geographic area to which the estimate applies in the appropriate percent-in-sample table or appropriate matrix, and obtain the person or housing unit "percent-in-sample" figure for this

area. Use the person "percent-in-sample" figure for person and family characteristics. Use the housing unit "percent-in-sample" figure for housing unit characteristics.

3. Use table C to obtain the design factor for the characteristic (for example, employment status, school enrollment) and the range that contains the percent-in-sample with which you are working. Multiply the basic standard error by this factor.

The unadjusted standard errors of zero estimates or of very small estimated totals or percentages will approach zero. This is also the case for very large percentages or estimated totals that are close to the size of the tabulation areas to which they correspond. Nevertheless, these estimated totals and percentages still are subject to sampling and nonsampling variability, and an estimated standard error of zero (or a very small standard error) is not appropriate. For estimated percentages that are less than 2 or greater than 98, use the basic standard errors in table B that appear in the "2 or 98" row. For an estimated total that is less than 50 or within 50 of the total size of the tabulation area, use a basic standard error of 16.

An illustration of the use of the tables is given in the section entitled "Use of Tables to Compute Standard Errors."

**Sums and Differences**—The standard errors estimated from these tables are not directly applicable to sums of and differences between two sample estimates. To estimate the standard error of a sum or difference, the tables are to be used somewhat differently in the following three situations:

1. For the sum of or difference between a sample estimate and a 100-percent value, use the standard error of the sample estimate. The complete count value is not subject to sampling error.
2. For the sum of or difference between two sample estimates, the appropriate standard error is approximately the square root of the sum of the two individual standard errors squared; that is, for standard errors:

$SE_{\hat{X}}$  and  $SE_{\hat{Y}}$  of estimates  $\hat{X}$  and  $\hat{Y}$ :

$$SE_{(\hat{X} \pm \hat{Y})} = SE_{(\hat{X} - \hat{Y})} = \sqrt{(SE_{\hat{X}})^2 + (SE_{\hat{Y}})^2}$$

This method, however, will underestimate (overestimate) the standard error if the two items in a sum are highly positively (negatively) correlated or if the two items in a difference are highly negatively (positively) correlated. This method may also be used for the difference between (or sum of) sample estimates from two censuses or from a census sample and another survey. The

standard error for estimates not based on the 1990 census sample must be obtained from an appropriate source outside of this appendix.

3. For the differences between two estimates, one of which is a subclass of the other, use the tables directly where the calculated difference is the estimate of interest. For example, to determine the estimate of non-Black teachers, one may subtract the estimate of Black teachers from the estimate of total teachers. To determine the standard error of the estimate of non-Black teachers apply the above formula directly.

**Ratios**—Frequently, the statistic of interest is the ratio of two variables, where the numerator is not a subset of the denominator. For example, the ratio of teachers to students in public elementary schools. The standard error of the ratio between two sample estimates is estimated as follows:

1. If the ratio is a proportion, then follow the procedure outlined for "Totals and Percentages."
2. If the ratio is not a proportion, then approximate the standard error using the formula below.

$$SE_{(\hat{X}/\hat{Y})} = \frac{\hat{X}}{\hat{Y}} \sqrt{\frac{(SE_{\hat{X}})^2}{\hat{X}^2} + \frac{(SE_{\hat{Y}})^2}{\hat{Y}^2}}$$

**Medians**—For the standard error of the median of a characteristic, it is necessary to examine the distribution from which the median is derived, as the size of the base and the distribution itself affect the standard error. An approximate method is given here. As the first step, compute one-half of the number on which the median is based (refer to this result as  $N/2$ ). Treat  $N/2$  as if it were an ordinary estimate and obtain its standard error as instructed above. Compute the desired confidence interval about  $N/2$ . Starting with the lowest value of the characteristic, cumulate the frequencies in each category of the characteristic until the sum equals or first exceeds the lower limit of the confidence interval about  $N/2$ . By linear interpolation, obtain a value of the characteristic corresponding to this sum. This is the lower limit of the confidence interval of the median. In a similar manner, continue cumulating frequencies until the sum equals or exceeds the count in excess of the upper limit of the interval about  $N/2$ . Interpolate as before to obtain the upper limit of the confidence interval for the estimated median.

When interpolation is required in the upper open-ended interval of a distribution to obtain a confidence bound, use 1.5 times the lower limit of the open-ended confidence interval as the upper limit of the open-ended interval.

## Confidence Intervals

A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain

the average value of the estimated characteristic that results over all possible samples, with a known probability. For example, if all possible samples that could result under the 1990 census sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

1. Approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples;
2. Approximately 90 percent of the intervals from 1.645 times the estimated standard error below the estimate to 1.645 times the estimated standard error above the estimate would contain the average result from all possible samples.
3. Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

The intervals are referred to as 68 percent, 90 percent, and 95 percent confidence intervals, respectively.

The average value of the estimated characteristic that could be derived from all possible samples is or is not contained in any particular computed interval. Thus, we cannot make the statement that the average value has a certain probability of falling between the limits of the calculated confidence interval. Rather, one can say with a specified probability of confidence that the calculated confidence interval includes the average estimate from all possible samples (approximately the 100-percent value).

Confidence intervals also may be constructed for the ratio, sum of, or difference between two sample figures. This is done by first computing the ratio, sum, or difference, then obtaining the standard error of the ratio, sum, or difference (using the formulas given earlier), and finally forming a confidence interval for this estimated ratio, sum, or difference as above. One can then say with specified confidence that this interval includes the ratio, sum, or difference that would have been obtained by averaging the results from all possible samples.

The estimated standard errors given in this appendix do not include all portions of the variability due to nonsampling error that may be present in the data. The standard errors reflect the effect of simple response variance, but not the effect of correlated errors introduced by enumerators, coders, or other field or processing personnel. Thus, the standard errors calculated represent a lower bound of the total error. As a result,

confidence intervals formed using these estimated standard errors may not meet the stated levels of confidence (i.e., 68, 90, or 95 percent). Thus, some care must be exercised in the interpretation of the data in this data product based on the estimated standard errors.

A standard sampling theory text should be helpful if the user needs more information about confidence intervals and nonsampling errors.

## Use of Tables to Compute Standard Errors

The following is a hypothetical example of how to compute a standard error of a total and a percentage. Suppose a particular data table shows that for City A 9,948 persons out of all 15,888 persons age 16 years and over were in the civilian labor force. The percent-in-sample table lists City A with a percent-in-sample of 16.0 percent (Persons column). The column in table C which includes 16.0 percent-in-sample shows the design factor to be 1.1 for "Employment status."

The basic standard error for the estimated total 9,948 may be obtained from table A or from the formula given below table A. In order to avoid interpolation, the use of the formula will be demonstrated here. Suppose that the total population of City A was 21,220. The formula for the basic standard error, SE, is

$$\begin{aligned} SE(9,948) &= \sqrt{5(9,948)(1 - 9,948/21,220)} \\ &= 163 \text{ persons.} \end{aligned}$$

The standard error of the estimated 9,948 persons 16 years and over who were in the civilian labor force is found by multiplying the basic standard error 163 by the design factor, 1.1 from table C. This yields an estimated standard error of 179 for the total number of persons 16 years and over in City A who were in the civilian labor force.

The estimated percent of persons 16 years and over who were in the civilian labor force in City A is 62.6. From table B, the unadjusted standard error is found to be approximately 0.85 percentage points. The standard error for the estimated 62.6 percent of persons 16 years and over who were in the civilian labor force is  $0.85 \times 1.1 = 0.94$  percentage points.

A note of caution concerning numerical values is necessary. Standard errors of percentages derived in this manner are approximate. Calculations can be expressed to several decimal places, but to do so would indicate more precision in the data than is justifiable. Final results should contain no more than two decimal places when the estimated standard error is one percentage point (i.e., 1.00) or more.

In the previous example, the standard error of the 9,948 persons 16 years and over in City A who were in the civilian labor force was found to be 179. Thus, a 90

percent confidence interval for this estimated total is found to be:

$$[9,948 - 1.645(1.79)] \text{ to } [9,948 + 1.645(1.79)]$$

or

$$9,654 \text{ to } 10,242$$

One can say, with about 90 percent confidence, that this interval includes the value that would have been obtained by averaging the results from all possible samples.

The following is an illustration of the calculation of standard errors and confidence intervals when a difference between two sample estimates is obtained. For example, suppose the number of persons in City B age 16 years and over who were in the civilian labor force was 9,314 and the total number of persons 16 years and over was 16,666. Further suppose the population of City B was 25,225. Thus, the estimated percentage of persons 16 years and over who were in the civilian labor force is 55.9 percent. The unadjusted standard error determined using the formula provided at the bottom of table B is 0.86 percentage points. We find that City B had a percent-in-sample of 15.7. The range which includes 15.7 percent-in-sample in table C shows the design factor to be 1.1 for "Employment Status." Thus, the approximate standard error of the percentage (55.9 percent) is  $0.86 \times 1.1 = 0.95$  percentage points.

Now suppose that one wished to obtain the standard error of the difference between City A and City B of the percentages of persons who were 16 years and over and who were in the civilian labor force. The difference in the percentages of interest for the two cities is:

$$62.6 - 55.9 = 6.7 \text{ percent.}$$

Using the results of the previous example:

$$SE(6.7) = \sqrt{(SE(62.6))^2 + (SE(55.9))^2} = \sqrt{(0.94)^2 + (0.95)^2}$$

$$= 1.34 \text{ percentage points}$$

The 90 percent confidence interval for the difference is formed as before:

$$[6.70 - 1.645(1.34)] \text{ to } [6.70 + 1.645(1.34)]$$

or

$$4.50 \text{ to } 8.90$$

One can say with 90 percent confidence that the interval includes the difference that would have been obtained by averaging the results from all possible samples.

For reasonably large samples, ratio estimates are normally distributed, particularly for the census population. Therefore, if we can calculate the standard error of a ratio estimate then we can form a confidence interval around the ratio. Suppose that one wished to obtain the standard error of the ratio of the estimate of persons who were 16 years and over and who were in the civilian labor force in City A to the estimate of persons who

were 16 years and over and who were in the civilian labor force in City B. The ratio of the two estimates of interest is:

$$9948/9314 = 1.07$$

$$SE(1.07) = \left( \frac{9,948}{9,314} \right) \sqrt{\frac{1}{(9,948)^2} + \frac{188^2}{(9,314)^2}}$$

$$= .029$$

Using the results above, the 90 percent confidence interval for this ratio would be:

$$[1.07 - 1.645(.029)] \text{ to } [1.07 + 1.645(.029)]$$

or

$$1.02 \text{ to } 1.12$$

## ESTIMATION PROCEDURE

The estimates which appear in this publication were obtained from an iterative ratio estimation procedure (iterative proportional fitting) resulting in the assignment of a weight to each sample person or housing unit record. For any given tabulation area, a characteristic total was estimated by summing the weights assigned to the persons or housing units possessing the characteristic in the tabulation area. Estimates of family or household characteristics were based on the weight assigned to the family member designated as householder. Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value 6, all characteristics of that person or housing unit would be tabulated with the weight of 6. The estimation procedure, however, did assign weights varying from person to person or housing unit to housing unit. The estimation procedure used to assign the weights was performed in geographically defined "weighting areas." Weighting areas generally were formed of contiguous geographic units which agreed closely with census tabulation areas within counties. Weighting areas were required to have a minimum sample of 400 persons. Weighting areas never crossed State or county boundaries. In small counties with a sample count below 400 persons, the minimum required sample condition was relaxed to permit the entire county to become a weighting area.

Within a weighting area, the ratio estimation procedure for persons was performed in four stages. For persons, the first stage applied 17 household-type groups. The second stage used two groups: sampling rate of 1-in-2; sampling rate less than 1-in-2. The third stage used the dichotomy householders/nonhouseholders. The fourth stage applied 180 aggregate age-sex-race-Hispanic origin categories. The stages were as follows:



## PERSONS

### STAGE I: TYPE OF HOUSEHOLD

Group	Persons in Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Persons in Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit
	Persons in All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit
	Persons in Group Quarters
17	Persons in Group Quarters

### STAGE II: SAMPLING RATES

1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2

### STAGE III: HOUSEHOLDER/NONHOUSEHOLDER

1	Householder
2	Nonhouseholder

### STAGE IV: AGE/ SEX/ RACE/ HISPANIC ORIGIN

Group	White
	Persons of Hispanic Origin
	Male
1	0 to 4 years
2	5 to 14 years
3	15 to 19 years
4	20 to 24 years
5	25 to 34 years
6	35 to 54 years
7	55 to 64 years
8	65 to 74 years
9	75 years and over
	Female
10-18	Same age categories as groups 1 through 9.
	Persons Not of Hispanic Origin
19-36	Same sex and age categories as groups 1 through 18.
	Black
37-72	Same age/ sex/ Hispanic origin categories as groups 1 through 36.

### STAGE II: SAMPLING RATES

73-108	Asian or Pacific Islander
	Same age/ sex/ Hispanic origin categories as groups 1 through 36.
109-144	American Indian, Eskimo, or Aleut
	Same age/ sex/ Hispanic origin categories as groups 1 through 36.
145-180	Other Race (includes those races not listed above)
	Same age/ sex/ Hispanic origin categories as groups 1 through 36.

Within a weighting area, the first step in the estimation procedure was to assign an initial weight to each sample person record. This weight was approximately equal to the inverse of the probability of selecting a person for the census sample.

The next step in the estimation procedure, prior to iterative proportional fitting, was to combine categories in each of the four estimation stages, when needed to increase the reliability of the ratio estimation procedure. For each stage, any group that did not meet certain criteria for the unweighted sample count or for the ratio of the 100-percent to the initially weighted sample count, was combined, or collapsed, with another group in the same stage according to a specified collapsing pattern. At the fourth stage, an additional criterion concerning the number of complete count persons in each race/ Hispanic origin category was applied.

As the final step, the initial weights underwent four stages of ratio adjustment applying the grouping procedures described above. At the first stage, the ratio of the complete census count to the sum of the initial weights for each sample person was computed for each stage I group. The initial weight assigned to each person in a group was then multiplied by the stage I group ratio to produce an adjusted weight.

In stage II, the stage I adjusted weights were again adjusted by the ratio of the complete census count to the sum of the stage I weights for sample persons in each stage II group. Next, at stage III, the stage II weights were adjusted by the ratio of the complete census count to the sum of the stage II weights for sample persons in each stage III group. Finally, at stage IV, the stage III weights were adjusted by the ratio of the complete census count to the sum of the stage III weights for sample persons in each stage IV group. The four stages of ratio adjustment were performed two times (two iterations) in the order given above. The weights obtained from the second iteration for stage IV were assigned to the sample person records. However, to avoid complications in rounding for tabulated data, only whole number weights were assigned. For example, if the final weight of the persons in a particular group was 7.25 then 1/4 of the sample persons in this group were randomly assigned a weight of 8, while the remaining 3/4 received a weight of 7.

The ratio estimation procedure for housing units was essentially the same as that for persons, except that vacant units were treated differently. The occupied housing unit ratio estimation procedure was done in four stages, and the vacant housing unit ratio estimation procedure was done in a single stage. The first stage for occupied housing units applied 16 household type categories, while the second stage used the two sampling categories described above for persons. The third stage applied three units-in-structure categories; i.e. single units, multi-unit less than 10 and multi-unit 10 or more. The fourth stage could potentially use 200 tenure-race-Hispanic origin-value/ rent groups. The stages for ratio estimation for housing units were as follows:

### OCCUPIED HOUSING UNITS

#### STAGE I: TYPE OF HOUSEHOLD

Group	Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit
	All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit

#### STAGE II: SAMPLING RATE CATEGORY

1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2

#### STAGE III: UNITS IN STRUCTURE

1	Single unit structure
2	Multi-unit structure consisting of fewer than 10 individual units
3	Multi-unit structure consisting of 10 or more individual units

#### STAGE IV: TENURE/ RACE AND HISPANIC ORIGIN OF HOUSEHOLDER/ VALUE OR RENT

Group	Owner
	White Householder
	Householder of Hispanic Origin
	Value
1	Less than \$20,000
2	\$20,000 to \$39,999
3	\$40,000 to \$59,999
4	\$60,000 to \$79,999

#### STAGE IV: TENURE/ RACE AND HISPANIC ORIGIN OF HOUSEHOLDER/ VALUE OR RENT--- Con.

5	\$80,000 to \$99,999
6	\$100,000 to \$149,999
7	\$150,000 to \$249,999
8	\$250,000 to \$299,999
9	\$300,000 or more
10	Other <sup>1</sup>
	Householder Not of Hispanic Origin
11-20	Same value categories as groups 1 through 10
	Black Householder
21-40	Same Hispanic origin/ value categories as groups 1 through 20
	Asian or Pacific Islander Householder
41-60	Same Hispanic origin/ value categories as groups 1 through 20
	American Indian, Eskimo, or Aleut Householder
61-80	Same Hispanic origin/ value categories as groups 1 through 20
	Householder of Other Race
81-100	Same Hispanic origin/ value categories as groups 1 through 20
	Renter
	White Householder
	Householder of Hispanic origin
	Rent
101	Less than \$100
102	\$100 to \$199
103	\$200 to \$299
104	\$300 to \$399
105	\$400 to \$499
106	\$500 to \$599
107	\$600 to \$749
108	\$750 to \$999
109	\$1,000 or more
110	No cash rent
	Householder Not of Hispanic Origin
111-120	Same rent categories as groups 101 through 110
	Black Householder
121-140	Same Hispanic origin/ rent categories as groups 101 through 120

<sup>1</sup>Value of units in this category results from other factors besides housing value alone, for example, inclusion of more than 10 acres of land, or presence of a business establishment on the premises

**STAGE IV: TENURE/ RACE AND HISPANIC ORIGIN  
OF HOUSEHOLDER/ VALUE OR RENT—  
Con.**

	Asian or Pacific Islander Householder
141-160	Same Hispanic origin/ rent categories as groups 101 through 120
	American Indian, Eskimo, or Aleut Householder
161-180	Same Hispanic origin/ rent categories as groups 101 through 120
	Householder of Other Race
181-200	Same Hispanic origin/ rent categories as groups 101 through 120
	Vacant Housing Units
1	Vacant for rent
2	Vacant for sale
3	Other vacant

The estimates produced by this procedure realize some of the gains in sampling efficiency that would have resulted if the population had been stratified into the ratio estimation groups before sampling, and if the sampling rate had been applied independently to each group. The net effect is a reduction in both the standard error and the possible bias of most estimated characteristics to levels below what would have resulted from simply using the initial, unadjusted weight. A by-product of this estimation procedure is that the estimates from the sample will, for the most part, be consistent with the complete count figures for the population and housing unit groups used in the estimation procedure.

### Control of Nonsampling Error

As mentioned earlier, both sample and 100-percent data are subject to nonsampling error. This component of error could introduce serious bias into the data, and the total error could increase dramatically over that which would result purely from sampling. While it is impossible to completely eliminate nonsampling error from an operation as large and complex as the decennial census, the Bureau of the Census attempted to control the sources of such error during the collection and processing operations. Described below are the primary sources of nonsampling error and the programs instituted for control of this error. The success of these programs, however, was contingent upon how well the instructions actually were carried out during the census. As part of the 1990 census evaluation program, both the effects of these programs and the amount of error remaining after their application will be evaluated.

**Undercoverage**—It is possible for some households or persons to be missed entirely by the census. The undercoverage of persons and housing units can introduce biases into the data.

Several coverage improvement programs were implemented during the development of the census address list and census enumeration and processing to minimize undercoverage of the population and housing units. These programs were developed based on experience from the 1980 census and results from the 1990 census testing cycle. In developing and updating the census address list, the Census Bureau used a variety of specialized procedures in different parts of the country.

- In the large urban areas, the Census Bureau purchased and geocoded address lists. Concurrent with geocoding, the United States Postal Service (USPS) reviewed and updated this list. After the postal check, census enumerators conducted a dependent canvass and update operation. In the fall of 1989, local officials were given the opportunity to examine block counts of address listings (local review) and identify possible errors. Prior to mailout, the USPS conducted a final review.
- In small cities, suburban areas, and selected rural parts of the country, the Census Bureau created the address list through a listing operation. The USPS reviewed and updated this list, and the Census Bureau reconciled USPS corrections and updated through a field operation. In the fall of 1989, local officials participated in reviewing block counts of address listings. Prior to mailout, the USPS conducted a final review.
- The Census Bureau (rather than the USPS) conducted a listing operation in the fall of 1989 and delivered census questionnaires in selected rural and seasonal housing areas in March of 1990. In some inner-city public housing developments, whose addresses had been obtained via the purchased address list noted above, census questionnaires were also delivered by Census Bureau enumerators.

Coverage improvement programs continued during and after mailout. A recheck of units initially classified as vacant or nonexistent improved further the coverage of persons and housing units. All local officials were given the opportunity to participate in a post-census local review, and census enumerators conducted an additional recanvass. In addition, efforts were made to improve the coverage of unique population groups, such as the homeless and parolees/probationers. Computer and clerical edits and telephone and personal visit followup also contributed to improved coverage.

More extensive discussion of the programs implemented to improve coverage will be published by the Census Bureau when the evaluation of the coverage improvement program is completed.

**Respondent and Enumerator Error**—The person answering the questionnaire or responding to the questions posed by an enumerator could serve as a source of error, although the questions were phrased as clearly as possible based on precensus tests, and detailed instructions for completing the questionnaire were provided to each household. In addition, respondents' answers were edited for completeness and consistency, and problems were followed up as necessary.

The enumerator may misinterpret or otherwise incorrectly record information given by a respondent; may fail to collect some of the information for a person or household; or may collect data for households that were not designated as part of the sample. To control these problems, the work of enumerators was monitored carefully. Field staff were prepared for their tasks by using standardized training packages that included hands-on experience in using census materials. A sample of the households interviewed by enumerators for nonresponse were reinterviewed to control for the possibility of data for fabricated persons being submitted by enumerators. Also, the estimation procedure was designed to control for biases that would result from the collection of data from households not designated for the sample.

**Processing Error**—The many phases involved in processing the census data represent potential sources for the introduction of nonsampling error. The processing of the census questionnaires includes the field editing, followup, and transmittal of completed questionnaires; the manual coding of write-in responses; and the electronic data processing. The various field, coding and computer operations undergo a number of quality control checks to insure their accurate application.

**Nonresponse**—Nonresponse to particular questions on the census questionnaire allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any imputation procedure using respondent data may not completely reflect this difference either at the elemental level (individual person or housing unit) or on the average. Some protection against the introduction of large biases is afforded by minimizing nonresponse. In the census, nonresponse was reduced substantially during the field operations by the various edit and followup operations aimed at obtaining a response for every question. Characteristics for the nonresponses remaining after this operation were imputed by the computer by using reported data for a person or housing unit with similar characteristics.

## EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of data that describes the population as accurately and clearly as possible. To meet this objective, questionnaires were edited during field data collection operations for consistency, completeness, and acceptability. Questionnaires also were reviewed by census clerks for omissions, certain specific inconsistencies, and population coverage. For example, write-in entries such as "Don't know" or "NA" were considered unacceptable. For some district offices, the initial edit was automated; however, for the majority of the district offices, it was performed by clerks. As a result of this operation, a telephone or personal visit followup was made to obtain missing information. Potential coverage errors were included in the followup, as well as a sample of questionnaires with omissions and/or inconsistencies.

Subsequent to field operations, remaining incomplete or inconsistent information on the questionnaires was assigned using imputation procedures during the final automated edit of the collected data. Imputations, or computer assignments of acceptable codes in place of unacceptable entries or blanks, are needed most often when an entry for a given item is lacking or when the information reported for a person or housing unit on that item is inconsistent with other information for that same person or housing unit. As in previous censuses, the general procedure for changing unacceptable entries was to assign an entry for a person or housing unit that was consistent with entries for persons or housing units with similar characteristics. The assignment of acceptable codes in place of blanks or unacceptable entries enhances the usefulness of the data.

Another way in which corrections were made during the computer editing process was through substitution; that is, the assignment of a full set of characteristics for a person or housing unit. When there was an indication that a housing unit was occupied but the questionnaire contained no information for the people within the household or the occupants were not listed on the questionnaire, a previously accepted household was selected as a substitute, and the full set of characteristics for the substitute was duplicated. The assignment of the full set of housing characteristics occurred when there was no housing information available. If the housing unit was determined to be occupied, the housing characteristics were assigned from a previously processed occupied unit. If the housing unit was vacant, the housing characteristics were assigned from a previously processed vacant unit.

**Table A. Unadjusted Standard Error for Estimated Totals**

[Based on a 1 in 6 simple random sample]

Estimated Total <sup>1</sup>	Size of publication area <sup>2</sup>													
	500	1,000	2,500	5,000	10,000	25,000	50,000	100,000	250,000	500,000	1,000,000	5,000,000	10,000,000	25,000,000
50	16	16	16	16	16	16	16	16	16	16	16	16	16	16
100	20	21	22	22	22	22	22	22	22	22	22	22	22	22
250	25	30	35	35	35	35	35	35	35	35	35	35	35	35
500	-	35	45	45	50	50	50	50	50	50	50	50	50	50
1,000	-	-	55	65	65	70	70	70	70	70	70	70	70	70
2,500	-	-	-	80	85	110	110	110	110	110	110	110	110	110
5,000	-	-	-	-	110	140	150	150	160	160	160	160	160	160
10,000	-	-	-	-	-	170	200	210	220	220	220	220	220	220
15,000	-	-	-	-	-	-	230	260	270	270	270	270	270	270
25,000	-	-	-	-	-	-	250	310	340	350	350	350	350	350
75,000	-	-	-	-	-	-	-	310	510	570	590	610	610	610
100,000	-	-	-	-	-	-	-	-	550	630	670	700	700	710
250,000	-	-	-	-	-	-	-	-	-	790	970	1,090	1,100	1,100
500,000	-	-	-	-	-	-	-	-	-	-	1,120	1,500	1,540	1,540
1,000,000	-	-	-	-	-	-	-	-	-	-	-	2,000	2,120	2,160
5,000,000	-	-	-	-	-	-	-	-	-	-	-	-	3,540	4,470
10,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	5,460

<sup>1</sup>For estimated totals larger than 10,000,000 the standard error is somewhat larger than the table values. The formula given below should be used to calculate the standard error.

$$SE(\hat{Y}) = \sqrt{5 \hat{Y} \left(1 - \frac{\hat{Y}}{N}\right)}$$

N = Size of area

$\hat{Y}$  = Estimate of characteristic total

<sup>2</sup>The total count of persons in the area if the estimated total is a person characteristic, or the total count of housing units in the area if the estimated total is a housing unit characteristic.

**Table B. Unadjusted Standard Error in Percentage Points for Estimated Percentage**

[Based on a 1 in 6 simple random sample]

Estimated Percentage	Base of percentage <sup>1</sup>													
	500	750	1,000	1,500	2,500	5,000	7,500	10,000	25,000	50,000	100,000	250,000	500,000	
2 or 98	1.4	1.1	1.0	0.8	0.6	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	
5 or 95	2.2	1.0	1.5	1.3	1.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1	
10 or 90	3.0	2.4	2.1	1.7	1.3	0.9	0.8	0.7	0.4	0.3	0.2	0.1	0.1	
15 or 85	3.6	2.9	2.5	2.1	1.6	1.1	0.9	0.8	0.5	0.4	0.3	0.2	0.1	
20 or 80	4.0	3.3	2.8	2.3	1.8	1.3	1.0	0.9	0.6	0.4	0.3	0.2	0.1	
25 or 75	4.3	3.6	3.1	2.5	1.9	1.4	1.1	1.0	0.6	0.4	0.3	0.2	0.1	
30 or 70	4.6	3.7	3.2	2.6	2.0	1.4	1.2	1.0	0.6	0.5	0.3	0.2	0.1	
35 or 65	4.8	3.8	3.4	2.6	2.1	1.5	1.2	1.1	0.7	0.5	0.3	0.2	0.2	
50	5.0	4.1	3.5	2.9	2.2	1.6	1.3	1.1	0.7	0.5	0.4	0.2	0.2	

<sup>1</sup>For a percentage and/or base of percentage not shown in the table, the formula given below may be used to calculate the standard error. This table should only be used for proportions, that is, where the numerator is a subset of the denominator.

$$SE(\hat{p}) = \sqrt{\frac{5}{B} \hat{p} (100 - \hat{p})}$$

B = Base of estimated percentage

$\hat{p}$  = Estimated percentage

**Table C. Standard Error Design Factors--United States**

(Percent of persons or housing units in sample)

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.8	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.8	0.5
Marital status.....	1.2	0.9	0.5	0.4
Household type and relationship.....	1.9	1.1	0.6	0.5
Children ever born.....	2.6	2.8	1.5	1.2
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.1	1.7	1.0	0.8
Place of birth.....	2.2	2.1	1.2	1.1
Citizenship.....	1.8	1.5	0.9	0.7
Residence in 1985.....	2.1	1.9	1.1	0.8
Year of entry.....	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.4	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.6	1.5	0.8	0.7
Type of residence (urban/rural).....	2.2	2.2	1.4	1.1
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	1.0	0.9	0.5	0.5
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.5	1.2	0.7	0.6
Means of transportation to work.....	1.5	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.5	1.2	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.6	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.1	0.5	0.5
Kitchen facilities.....	1.3	1.1	0.6	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.2	1.0	0.6	0.5
House heating fuel.....	1.3	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.5	1.0	0.5	0.5

Table C. Standard Error Design Factors—Alabama

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.5
Household type and relationship.....	1.3	1.1	0.8	0.4
Children ever born.....	2.7	2.8	1.5	0.6
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.4	2.1	1.2	1.0
Place of birth.....	2.6	2.3	1.4	1.0
Citizenship.....	1.8	1.6	0.9	0.7
Residence in 1985.....	2.1	1.9	1.1	0.9
Year of entry.....	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.5	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.5	0.8	0.7
Type of residence (urban/rural).....	2.1	2.1	1.2	0.9
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	1.0	0.9	0.8	0.7
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.5	1.2	0.7	0.6
Means of transportation to work.....	1.4	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.7	0.6
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.7	1.5	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.3	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.2	1.1	0.6	0.5
Condominium status.....	1.2	1.1	0.6	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.1	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.3	1.3	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.2	1.1	0.6	0.5
Home heating fuel.....	1.2	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.6	0.5

**Table C. Standard Error Design Factors—Alaska**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.5	0.5
Household type and relationship.....	1.3	1.1	0.7	0.6
Children ever born.....	2.4	2.0	1.4	1.4
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.0	1.8	1.2	1.2
Place of birth.....	1.6	1.5	1.0	0.9
Citizenship.....	1.7	1.5	1.0	0.8
Residence in 1989.....	2.0	1.0	1.1	1.0
Year of entry.....	1.4	1.1	0.7	0.5
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.6
Educational attainment.....	1.3	1.1	0.7	0.5
School enrollment.....	1.7	1.4	0.9	0.7
Type of residence (urban/rural).....	2.4	2.4	1.3	1.2
Household type.....	1.5	1.1	0.7	0.6
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	1.0	1.0	0.8	0.8
Subfamily type and presence of children.....	1.1	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.3	1.2	0.7	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.4	1.2	0.7	0.6
Place of work.....	1.5	1.2	0.8	0.5
Means of transportation to work.....	1.4	1.2	0.7	0.5
Travel time to work.....	1.3	1.1	0.7	0.5
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.8	1.1	0.7	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.3	1.1	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	0.8	0.5	0.5
Condominium status.....	1.2	1.0	0.5	0.5
Units in structure.....	1.1	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.0	0.5	0.5
Kitchen facilities.....	1.3	1.0	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.5	0.5
Sewage disposal.....	1.1	1.0	0.5	0.4
House heating fuel.....	1.3	1.1	0.5	0.5
Telephone in housing unit.....	1.8	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.1	1.0	0.6	0.5



**Table C. Standard Error Design Factors—Arkansas**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.8	1.1	0.6	0.5
Children ever born	2.8	2.6	1.7	1.4
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.2	1.9	1.1	0.9
Place of birth	2.9	1.9	1.2	0.9
Citizenship	1.8	1.8	0.9	0.7
Residence in 1985	2.1	1.9	1.0	0.8
Year of entry	1.8	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.6	0.8	0.7
Type of residence (urban/rural)	2.7	2.7	1.2	0.7
Household type	1.5	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.1	1.0	0.6	0.6
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.3	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.1	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.2	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.6	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.5	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Arizona**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	0.9	0.6	0.5
Household type and relationship.....	1.4	1.1	0.7	0.6
Children ever born.....	2.7	2.3	1.6	1.4
Work disability and mobility limitation status.....	1.9	1.1	0.6	0.5
Ancestry.....	2.1	1.8	1.1	1.0
Place of birth.....	1.8	1.5	1.0	0.8
Citizenship.....	1.9	1.6	1.0	0.8
Residence in 1985.....	2.1	1.8	1.1	0.9
Year of entry.....	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.4	0.8	0.7
Educational attainment.....	1.4	1.1	0.7	0.6
School enrollment.....	1.8	1.5	1.0	0.8
Type of residence (urban/rural).....	2.4	2.1	0.9	0.7
Household type.....	1.4	1.1	0.7	0.6
Family type.....	1.3	1.0	0.6	0.5
Group quarters.....	1.1	1.0	1.0	1.0
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.3	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.3	1.0	0.6	0.5
Class of worker.....	1.5	1.2	0.7	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.4	1.1	0.7	0.5
Place of work.....	1.6	1.2	0.8	0.5
Means of transportation to work.....	1.6	1.2	0.7	0.5
Travel time to work.....	1.4	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.2	0.8	0.5
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.7	0.6
Household income in 1989.....	1.3	1.1	0.6	0.5
Family income in 1989.....	1.3	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.7	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.5	1.2	0.6	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	0.9	0.6	0.4
Condominium status.....	1.2	1.1	0.6	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.3	1.0	0.6	0.5
Household income in 1989.....	1.3	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.3	1.1	0.6	0.4
Source of water, plumbing facilities.....	1.4	1.2	0.6	0.5
Sewage disposal.....	1.2	1.0	0.6	0.6
House heating fuel.....	1.3	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.6
Year householder moved into structure.....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.6	0.5

**Table C. Standard Error Design Factors—California**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	1.0	0.6	0.4
Household type and relationship.....	1.4	1.1	0.7	0.5
Children ever born.....	2.6	2.3	1.4	1.1
Work disability and mobility limitation status.....	1.3	1.1	0.6	0.5
Ancestry.....	2.3	1.9	1.1	0.7
Place of birth.....	1.9	1.6	1.0	0.7
Citizenship.....	1.8	1.5	1.0	0.7
Residence in 1985.....	2.1	1.8	1.1	0.8
Year of entry.....	1.7	1.4	0.7	0.6
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.6
Educational attainment.....	1.4	1.2	0.7	0.5
School enrollment.....	1.6	1.6	1.0	0.7
Type of residence (urban/rural).....	2.5	2.2	1.7	0.9
Household type.....	1.4	1.1	0.7	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	1.2	1.2	1.2	0.8
Subfamily type and presence of children.....	1.3	1.1	0.8	0.4
Employment status.....	1.3	1.1	0.6	0.5
Industry.....	1.3	1.2	0.7	0.5
Occupation.....	1.3	1.1	0.6	0.5
Class of worker.....	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1986.....	1.3	1.1	0.6	0.5
Number of workers in family.....	1.4	1.1	0.6	0.5
Place of work.....	1.6	1.3	0.8	0.6
Means of transportation to work.....	1.6	1.3	0.7	0.6
Travel time to work.....	1.4	1.2	0.7	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.7	0.5
Type of income in 1989.....	1.5	1.2	0.7	0.5
Household income in 1989.....	1.2	1.1	0.6	0.5
Family income in 1989.....	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons).....	1.7	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.6	1.3	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.7	0.5
Condominium status.....	1.2	1.1	0.6	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.1	0.6	0.5
Gross rent.....	1.2	1.1	0.6	0.5
Household income in 1989.....	1.2	1.1	0.6	0.5
Year structure built.....	1.2	1.1	0.6	0.5
Rooms, bedrooms.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.4	1.1	0.6	0.4
Source of water, plumbing facilities.....	1.4	1.2	0.6	0.6
Sewage disposal.....	1.2	1.1	0.6	0.5
House heating fuel.....	1.4	1.2	0.6	0.5
Telephone in housing unit.....	1.3	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.6	0.5

**Table C. Standard Error Design Factors—Colorado**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.4
Household type and relationship.....	1.3	1.1	0.7	0.5
Children ever born.....	2.5	2.2	1.4	1.4
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.9	1.6	1.1	0.8
Place of birth.....	1.8	1.6	1.0	0.9
Citizenship.....	1.6	1.4	1.0	0.7
Residence in 1985.....	1.9	1.7	1.1	0.8
Year of entry.....	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English.....	1.6	1.4	0.9	0.6
Educational attainment.....	1.3	1.1	0.7	0.5
School enrollment.....	1.7	1.4	1.0	0.7
Type of residence (urban/rural).....	2.1	2.1	1.6	1.2
Household type.....	1.3	1.1	0.7	0.5
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	1.0	0.9	0.6	0.7
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.7	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.4	1.2	0.7	0.6
Place of work.....	1.4	1.2	0.6	0.6
Means of transportation to work.....	1.4	1.2	0.6	0.6
Travel time to work.....	1.3	1.0	0.7	0.5
Private vehicle occupancy.....	1.4	1.2	0.6	0.6
Time leaving home to go to work.....	1.3	1.1	0.7	0.5
Type of income in 1989.....	1.4	1.2	0.7	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.3	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.1	0.6	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	0.9	0.6	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.1	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.1	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.2	1.2	0.9	0.4
Source of water, plumbing facilities.....	1.4	1.1	0.6	0.5
Sewage disposal.....	1.1	0.9	0.5	0.4
House heating fuel.....	1.4	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.7	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.6	0.5

**Table C. Standard Error Design Factors—Connecticut**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	16 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	0.9	0.5	0.5
Household type and relationship.....	1.3	1.0	0.5	0.5
Children ever born.....	2.5	2.1	1.2	1.0
Work disability and mobility limitation status.....	1.2	1.1	0.5	0.5
Ancestry.....	1.9	1.6	0.8	0.7
Place of birth.....	2.0	1.7	0.9	0.8
Citizenship.....	1.8	1.5	0.9	0.7
Residence in 1985.....	2.1	1.8	1.0	0.9
Year of entry.....	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.6	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.8	1.4	0.8	0.7
Type of residence (urban/rural).....	2.1	1.6	1.0	0.6
Household type.....	1.3	1.0	0.5	0.5
Family type.....	1.2	1.1	0.5	0.5
Group quarters.....	1.5	1.5	1.5	1.6
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.3	1.0	0.5	0.5
Industry.....	1.3	1.1	0.6	0.6
Occupation.....	1.3	1.1	0.5	0.5
Class of worker.....	1.5	1.3	0.6	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.4	1.1	0.6	0.6
Place of work.....	1.5	1.3	0.6	0.6
Means of transportation to work.....	1.5	1.3	0.7	0.6
Travel time to work.....	1.4	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.1	0.5	0.5
Family income in 1989.....	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons).....	1.6	1.3	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.5	1.2	0.6	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	0.9	0.5	0.5
Condominium status.....	1.2	1.1	0.5	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.3	1.1	0.5	0.5
Household income in 1989.....	1.2	1.1	0.6	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.5	0.5
Kitchen facilities.....	1.2	1.1	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.2	1.0	0.5	0.5
House heating fuel.....	1.3	1.1	0.6	0.5
Telephone in housing unit.....	1.3	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Delaware

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.8	0.5
Sex.....	1.2	1.0	0.8	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.5	0.5
Marital status.....	1.2	0.9	0.5	0.4
Household type and relationship.....	1.3	1.0	0.6	0.6
Children ever born.....	2.5	2.2	1.4	1.1
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.0	1.7	1.0	0.8
Place of birth.....	1.8	1.6	1.0	0.7
Citizenship.....	1.8	1.5	1.0	0.7
Residence in 1985.....	2.0	1.8	1.0	0.8
Year of entry.....	1.4	1.1	0.7	0.6
Language spoken at home and ability to speak English.....	1.7	1.5	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.4	1.0	0.7
Type of residence (urban/rural).....	2.4	1.9	0.9	0.7
Household type.....	1.3	1.0	0.6	0.5
Family type.....	1.2	1.0	0.5	0.5
Group quarters.....	1.0	0.8	0.8	0.7
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.5	1.2	0.6	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.6
Place of work.....	1.5	1.3	0.8	0.6
Means of transportation to work.....	1.5	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.3	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.2	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	0.9	0.6	0.5
Condominium status.....	1.1	1.0	0.5	0.5
Units in structure.....	1.1	1.0	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.1	1.0	0.5	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.0	0.5	0.5
Kitchen facilities.....	1.1	1.0	0.8	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.5	0.5
Sewage disposal.....	1.1	0.9	0.5	0.5
House heating fuel.....	1.2	1.0	0.8	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.1	1.0	0.6	0.6
Mortgage status and selected monthly owner costs.....	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.1	1.0	0.5	0.5

**Table C. Standard Error Design Factors—District of Columbia**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.5	0.5
Sex.....	1.2	1.0	0.5	0.5
Race.....	1.2	1.0	0.5	0.5
Hispanic origin (of any race).....	1.2	1.0	0.5	0.5
Marital status.....	1.4	1.1	0.7	0.6
Household type and relationship.....	1.4	1.2	0.7	0.6
Children ever born.....	2.7	2.1	1.3	1.1
Work disability and mobility limitation status.....	1.3	1.1	0.6	0.5
Ancestry.....	2.4	1.7	1.2	1.0
Place of birth.....	1.5	1.4	0.9	0.8
Citizenship.....	2.1	1.7	1.1	0.9
Residence in 1985.....	2.1	1.8	1.0	0.9
Year of entry.....	1.5	1.3	0.7	0.6
Language spoken at home and ability to speak English.....	1.9	1.6	0.9	0.8
Educational attainment.....	1.4	1.2	0.7	0.6
School enrollment.....	2.0	1.5	1.0	0.8
Type of residence (urban/rural).....	1.2	1.0	0.6	0.5
Household type.....	1.4	1.2	0.7	0.6
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	1.3	0.9	0.7	0.5
Subfamily type and presence of children.....	1.3	1.2	0.7	0.6
Employment status.....	1.4	1.2	0.7	0.6
Industry.....	1.3	1.2	0.7	0.6
Occupation.....	1.3	1.1	0.6	0.5
Class of worker.....	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989.....	1.3	1.1	0.7	0.5
Number of workers in family.....	1.4	1.3	0.7	0.6
Place of work.....	1.7	1.4	0.8	0.7
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.4	1.1	0.7	0.6
Private vehicle occupancy.....	1.4	1.3	0.7	0.6
Time leaving home to go to work.....	1.4	1.2	0.7	0.6
Type of income in 1989.....	1.5	1.2	0.7	0.6
Household income in 1989.....	1.2	1.1	0.6	0.5
Family income in 1989.....	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons).....	1.7	1.3	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.8	1.4	0.9	0.8
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.5	0.5
Race of householder.....	1.2	1.0	0.5	0.5
Hispanic origin of householder.....	1.2	1.0	0.5	0.5
Type of residence (urban/rural).....	1.2	1.0	0.6	0.5
Condominium status.....	1.3	1.1	0.6	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.5	0.5
Occupancy status.....	1.2	1.0	0.5	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.3	1.1	0.6	0.5
Household income in 1989.....	1.2	1.1	0.6	0.5
Year structure built.....	1.2	1.1	0.6	0.5
Rooms, bedrooms.....	1.3	1.1	0.6	0.5
Kitchen facilities.....	1.2	1.1	0.6	0.5
Source of water, plumbing facilities.....	1.4	1.1	0.7	0.6
Sewage disposal.....	1.2	1.0	0.5	0.5
House heating fuel.....	1.3	1.2	0.7	0.6
Telephone in housing unit.....	1.3	1.0	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.3	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.1	0.6	0.5
Mortgage status and collected monthly owner costs.....	1.2	1.1	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.7	0.6
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.1	0.6	0.5

Table C. Standard Error Design Factors--Florida

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	1.0	0.5	0.5
Household type and relationship.....	1.3	1.1	0.6	0.5
Children ever born.....	2.8	2.4	1.6	1.5
Work disability and mobility limitation status.....	1.3	1.1	0.6	0.5
Ancestry.....	2.1	1.8	1.0	0.8
Place of birth.....	1.8	1.5	0.9	0.8
Citizenship.....	1.9	1.6	1.0	0.8
Residence in 1985.....	2.0	1.8	1.0	0.8
Year of entry.....	1.6	1.2	0.6	0.6
Language spoken at home and ability to speak English.....	1.7	1.4	0.8	0.7
Educational attainment.....	1.4	1.1	0.6	0.5
School enrollment.....	1.9	1.6	1.0	0.7
Type of residence (urban/rural).....	2.2	2.2	1.5	0.9
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.3	1.1	0.6	0.5
Group quarters.....	1.2	1.2	1.2	1.2
Subfamily type and presence of children.....	1.3	1.0	0.5	0.5
Employment status.....	1.3	1.1	0.5	0.5
Industry.....	1.4	1.1	0.6	0.5
Occupation.....	1.3	1.1	0.6	0.5
Class of worker.....	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989.....	1.3	1.0	0.6	0.5
Number of workers in family.....	1.4	1.2	0.8	0.6
Place of work.....	1.6	1.3	0.7	0.6
Means of transportation to work.....	1.6	1.3	0.7	0.6
Travel time to work.....	1.4	1.2	0.5	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.6
Time leaving home to go to work.....	1.4	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.5	0.5
Household income in 1989.....	1.3	1.1	0.6	0.5
Family income in 1989.....	1.3	1.1	0.6	0.5
Poverty status in 1989 (persons).....	1.7	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.6	1.3	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	1.0	0.7	0.6
Condominium status.....	1.2	1.2	0.6	0.5
Units in structure.....	1.2	1.0	0.5	0.4
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.3	1.1	0.6	0.5
Household income in 1989.....	1.3	1.1	0.6	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.3	1.0	0.6	0.5
Source of water, plumbing facilities.....	1.4	1.1	0.6	0.5
Sewage disposal.....	1.2	1.0	0.6	0.5
House heating fuel.....	1.4	1.2	0.6	0.5
Telephone in housing unit.....	1.3	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.3	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5



Table C. Standard Error Design Factors—Georgia

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	1.0	0.6	0.5
Household type and relationship.....	1.3	1.1	0.6	0.5
Children ever born.....	2.5	2.4	1.5	1.4
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.3	2.1	1.1	1.0
Place of birth.....	2.3	2.2	1.3	1.1
Citizenship.....	1.9	1.6	0.8	0.8
Residence in 1985.....	2.1	1.9	1.0	0.9
Year of entry.....	1.5	1.1	0.6	0.6
Language spoken at home and ability to speak English.....	1.7	1.5	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.5	0.8	0.7
Type of residence (urban/rural).....	2.2	2.2	1.3	1.3
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.2	1.1	0.5	0.5
Group quarters.....	1.0	0.8	0.5	0.7
Subfamily type and presence of children.....	1.3	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1982.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.4	1.2	0.6	0.6
Place of work.....	1.5	1.3	0.7	0.6
Means of transportation to work.....	1.6	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.7	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.5	1.3	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.6	0.5
Condominium status.....	1.2	1.1	0.5	0.5
Units in structure.....	1.2	1.1	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.1	0.5	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.2	1.1	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.2	1.1	0.5	0.5
House heating fuel.....	1.2	1.1	0.5	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.5	0.5
Year householder moved into structure.....	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Hawaii

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	1.0	0.6	0.5
Household type and relationship.....	1.3	1.1	0.6	0.5
Children ever born.....	2.7	2.5	1.3	1.1
Work disability and mobility limitation status.....	1.2	1.1	0.6	0.5
Ancestry.....	2.5	2.3	1.3	1.1
Place of birth.....	2.0	2.0	1.0	0.8
Citizenship.....	1.7	1.5	0.9	0.7
Residence in 1985.....	2.1	2.0	1.0	0.9
Year of entry.....	1.5	1.3	0.6	0.6
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.7
Educational attainment.....	1.8	1.2	0.7	0.6
School enrollment.....	1.8	1.6	0.9	0.8
Type of residence (urban/rural).....	2.4	2.4	1.2	1.0
Household type.....	1.8	1.1	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	0.9	0.9	0.5	0.4
Subfamily type and presence of children.....	1.2	1.1	0.6	0.6
Employment status.....	1.3	1.1	0.6	0.5
Industry.....	1.3	1.1	0.7	0.5
Occupation.....	1.2	1.1	0.6	0.5
Class of worker.....	1.5	1.3	0.8	0.6
Hours per week and weeks worked in 1989.....	1.2	1.1	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.6	1.4	0.8	0.7
Means of transportation to work.....	1.4	1.3	0.7	0.6
Travel time to work.....	1.2	1.2	0.7	0.6
Private vehicle occupancy.....	1.4	1.3	0.7	0.6
Time leaving home to go to work.....	1.2	1.2	0.7	0.5
Type of income in 1989.....	1.4	1.2	0.7	0.6
Household income in 1989.....	1.2	1.1	0.6	0.5
Family income in 1989.....	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons).....	1.5	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.5	1.3	0.6	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.1	0.5	0.4
Condominium status.....	1.2	1.1	0.6	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.1	0.6	0.5
Gross rent.....	1.2	1.1	0.6	0.5
Household income in 1989.....	1.2	1.1	0.6	0.5
Year structure built.....	1.2	1.1	0.6	0.5
Rooms, bedroom.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.3	1.3	0.6	0.5
Source of water, plumbing facilities.....	1.3	1.2	0.6	0.5
Sewage disposal.....	1.2	1.1	0.6	0.5
House heating fuel.....	1.3	1.1	0.6	0.5
Telephone in housing unit.....	1.3	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.1	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.1	0.6	0.5

Table C. Standard Error Design Factors—Iaho

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.0	0.9	0.6	0.4
Household type and relationship.....	1.3	1.1	0.7	0.5
Children ever born.....	2.6	2.3	1.6	1.2
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.9	1.7	1.1	0.8
Place of birth.....	1.6	1.6	1.1	0.8
Citizenship.....	1.6	1.4	1.0	0.7
Residence in 1985.....	2.1	1.8	1.2	0.9
Year of entry.....	1.4	1.1	0.7	0.5
Language spoken at home and ability to speak English.....	1.6	1.4	0.9	0.7
Educational attainment.....	1.2	1.1	0.7	0.5
School enrollment.....	1.6	1.4	1.0	0.7
Type of residence (urban/rural).....	2.9	2.4	2.0	1.4
Household type.....	1.3	1.1	0.7	0.5
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	0.9	0.8	0.8	0.8
Subfamily type and presence of children.....	1.2	0.9	0.6	0.5
Employment status.....	1.1	1.0	0.6	0.5
Industry.....	1.3	1.1	0.7	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1983.....	1.1	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.7	0.5
Place of work.....	1.4	1.2	0.8	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.5
Travel time to work.....	1.3	1.1	0.7	0.5
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.3	1.1	0.7	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.9	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.3	1.1	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	0.9	0.6	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.1	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.1	1.1	0.6	0.5
Source of water, plumbing facilities.....	1.4	1.1	0.6	0.5
Sewage disposal.....	1.1	0.9	0.5	0.4
House heating fuel.....	1.2	1.0	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.7	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.1	1.0	0.6	0.5

Table C. Standard Error Design Factors—Illinois

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	0.9	0.5	0.4
Household type and relationship.....	1.3	1.1	0.6	0.6
Children ever born.....	2.6	2.3	1.3	1.2
Work disability and mobility limitation status.....	1.2	1.0	0.5	0.5
Ancestry.....	2.1	1.7	0.9	0.8
Place of birth.....	2.3	2.1	1.2	1.1
Citizenship.....	1.8	1.5	0.8	0.7
Residence in 1985.....	2.1	1.9	1.0	0.9
Year of entry.....	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.4	0.7	0.6
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.8	1.4	0.8	0.7
Type of residence (urban/rural).....	2.3	2.3	1.3	0.9
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.2	1.1	0.5	0.5
Group quarters.....	1.0	0.9	0.8	0.7
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.3	1.0	0.5	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.3	1.0	0.5	0.5
Class of worker.....	1.5	1.2	0.6	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.4	1.1	0.6	0.5
Place of work.....	1.5	1.3	0.6	0.6
Means of transportation to work.....	1.5	1.2	0.6	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.3	0.6	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.7	1.4	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.5	1.2	0.6	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.6	0.5
Condominium status.....	1.2	1.1	0.5	0.5
Units in structure.....	1.2	1.1	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.3	1.1	0.6	0.6
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.5	0.5
Kitchen facilities.....	1.5	1.1	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.2	1.0	0.5	0.4
House heating fuel.....	1.4	1.1	0.6	0.6
Telephone in housing unit.....	1.5	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Indiana**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.4
Household type and relationship.....	1.3	1.0	0.5	0.6
Children ever born.....	2.6	2.3	1.3	1.1
Work disability and mobility (limitation status).....	1.2	1.0	0.5	0.5
Ancestry.....	2.0	1.8	0.9	0.8
Place of birth.....	2.3	2.1	1.1	1.0
Citizenship.....	1.8	1.5	0.8	0.7
Residence in 1985.....	2.1	1.9	1.0	0.9
Year of entry.....	1.8	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.4	0.7	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.4	0.8	0.7
Type of residence (urban/rural).....	2.7	2.7	1.0	1.0
Household type.....	1.3	1.0	0.5	0.5
Family type.....	1.2	1.0	0.5	0.5
Group quarters.....	0.9	0.9	0.8	0.8
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.5	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.5	0.5
Class of worker.....	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.4	1.2	0.6	0.6
Means of transportation to work.....	1.4	1.2	0.6	0.6
Travel time to work.....	1.3	1.1	0.5	0.5
Private vehicle occupancy.....	1.4	1.2	0.6	0.6
Time leaving home to go to work.....	1.3	1.1	0.5	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.5	1.4	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.4	1.1	0.6	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	1.0	0.6	0.6
Condominium status.....	1.2	1.0	0.5	0.5
Units in structure.....	1.2	1.1	0.5	0.5
Tenure.....	1.2	1.0	0.5	0.5
Occupancy status.....	1.2	1.0	0.5	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.0	0.5	0.5
Kitchen facilities.....	1.2	1.1	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.1	1.0	0.5	0.5
House heating fuel.....	1.3	1.0	0.5	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.1	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Iowa**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.5	0.4
Household type and relationship.....	1.2	1.0	0.6	0.5
Children ever born.....	2.5	2.4	1.5	1.4
Work disability and mobility limitation status.....	1.2	1.0	0.5	0.5
Ancestry.....	1.9	1.6	0.8	0.8
Place of birth.....	2.3	2.2	1.1	1.1
Citizenship.....	1.7	1.4	0.7	0.7
Residence in 1986.....	2.0	1.9	0.9	0.9
Year of entry.....	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.6	1.4	0.7	0.6
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.5	1.4	0.7	0.7
Type of residence (urban/rural).....	2.1	2.1	0.9	0.9
Household type.....	1.2	1.0	0.6	0.5
Family type.....	1.2	1.0	0.5	0.5
Group quarters.....	0.9	0.9	0.8	0.7
Subfamily type and presence of children.....	1.2	0.9	0.5	0.5
Employment status.....	1.2	1.0	0.5	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.5	0.5
Class of worker.....	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.5	1.2	0.6	0.6
Means of transportation to work.....	1.4	1.2	0.6	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.2	0.6	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.6
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.3	1.1	0.6	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	1.0	0.6	0.5
Condominium status.....	1.2	1.0	0.5	0.5
Units in structure.....	1.2	1.1	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.3	1.1	0.5	0.5
Kitchen facilities.....	1.1	1.1	0.5	0.5
Source of water, plumbing facilities.....	1.4	1.1	0.6	0.5
Sewage disposal.....	1.2	1.0	0.5	0.4
House heating fuel.....	1.3	1.1	0.5	0.5
Telephone in housing unit.....	1.2	1.1	0.5	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Kansas**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	16 to 30 percent	31 to 45 percent	46 percent or more
<b>POPULATION</b>				
Age .....	1.2	1.0	0.6	0.5
Sex .....	1.2	1.0	0.6	0.5
Race .....	1.2	1.0	0.6	0.5
Hispanic origin (of any race) .....	1.2	1.0	0.6	0.5
Marital status .....	1.1	0.9	0.6	0.5
Household type and relationship .....	1.2	1.1	0.6	0.5
Children ever born .....	2.5	2.3	1.7	1.3
Work disability and mobility limitation status .....	1.2	1.0	0.6	0.5
Ancestry .....	2.0	1.7	1.0	0.8
Place of birth .....	1.9	1.9	1.2	1.0
Citizenship .....	1.7	1.5	0.9	0.7
Residence in 1985 .....	2.0	1.8	1.1	0.9
Year of entry .....	1.4	1.2	0.8	0.5
Language spoken at home and ability to speak English .....	1.6	1.4	0.8	0.7
Educational attainment .....	1.3	1.1	0.7	0.5
School enrollment .....	1.6	1.4	0.9	0.7
Type of residence (urban/rural) .....	2.4	2.4	1.8	0.8
Household type .....	1.2	1.1	0.6	0.5
Family type .....	1.2	1.0	0.6	0.5
Group quarters .....	0.5	0.9	0.9	0.8
Subfamily type and presence of children .....	1.2	0.9	0.5	0.5
Employment status .....	1.2	1.0	0.6	0.5
Industry .....	1.3	1.1	0.8	0.5
Occupation .....	1.2	1.0	0.6	0.5
Class of worker .....	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989 .....	1.2	1.0	0.6	0.5
Number of workers in family .....	1.3	1.2	0.7	0.5
Place of work .....	1.4	1.2	0.7	0.6
Means of transportation to work .....	1.4	1.2	0.7	0.6
Travel time to work .....	1.3	1.1	0.8	0.6
Private vehicle occupancy .....	1.4	1.3	0.7	0.6
Time leaving home to go to work .....	1.3	1.1	0.6	0.5
Type of income in 1989 .....	1.4	1.2	0.7	0.5
Household income in 1989 .....	1.2	1.0	0.6	0.5
Family income in 1989 .....	1.2	1.0	0.6	0.5
Poverty status in 1988 (persons) .....	1.5	1.4	0.8	0.6
Poverty status in 1988 (families) .....	1.2	1.0	0.6	0.5
Armed Forces and veteran status .....	1.3	1.1	0.7	0.5
<b>HOUSING</b>				
Age of householder .....	1.2	1.0	0.6	0.5
Race of householder .....	1.2	1.0	0.6	0.5
Hispanic origin of householder .....	1.2	1.0	0.6	0.5
Type of residence (urban/rural) .....	1.0	1.0	0.6	0.5
Condominium status .....	1.2	1.0	0.6	0.5
Units in structure .....	1.2	1.1	0.6	0.5
Tenure .....	1.2	1.0	0.6	0.5
Occupancy status .....	1.2	1.0	0.6	0.5
Value .....	1.2	1.0	0.6	0.5
Gross rent .....	1.2	1.0	0.6	0.5
Household income in 1989 .....	1.2	1.0	0.6	0.5
Year structure built .....	1.2	1.0	0.6	0.5
Rooms, bedrooms .....	1.2	1.0	0.6	0.5
Kitchen facilities .....	1.2	1.2	0.9	0.5
Source of water, plumbing facilities .....	1.4	1.2	0.7	0.6
Sewage disposal .....	1.1	1.0	0.5	0.5
House heating fuel .....	1.3	1.1	0.6	0.5
Telephone in housing unit .....	1.2	1.1	0.6	0.5
Vehicles available .....	1.3	1.1	0.6	0.5
Year householder moved into structure .....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs .....	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs .....	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989 .....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income .....	1.1	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Kentucky**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.5	0.4
Household type and relationship.....	1.2	1.0	0.6	0.5
Children ever born.....	2.8	2.4	1.5	1.2
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.2	1.9	1.0	0.9
Place of birth.....	2.6	2.2	1.1	0.9
Citizenship.....	1.8	1.5	0.9	0.7
Residence in 1985.....	2.0	1.8	1.0	0.8
Year of entry.....	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.6
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.5	0.8	0.7
Type of residence (urban/rural).....	2.5	2.5	1.1	0.9
Household type.....	1.2	1.0	0.6	0.5
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	1.0	1.0	0.8	0.8
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.2	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.4	1.2	0.7	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.8	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.2	1.1	0.6	0.5
Type of income in 1989.....	1.3	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.2	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.6	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.2	1.2	0.6	0.6
Source of water, plumbing facilities.....	1.3	1.2	0.7	0.6
Sewage disposal.....	1.2	1.0	0.6	0.5
House heating fuel.....	1.2	1.0	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.6
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.1	1.0	0.5	0.5



Table C. Standard Error Design Factors—Louisiana

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	35 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.5	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.5	0.6
Marital status.....	1.1	1.0	0.5	0.5
Household type and relationship.....	1.3	1.1	0.6	0.5
Children ever born.....	2.8	2.8	1.5	1.4
Work disability and mobility limitation status.....	1.2	1.1	0.5	0.5
Ancestry.....	2.3	2.0	1.1	1.0
Place of birth.....	2.7	2.5	1.4	1.2
Citizenship.....	1.9	1.6	0.8	0.7
Residence in 1985.....	2.2	2.0	1.1	0.9
Year of entry.....	1.4	1.1	0.6	0.6
Language spoken at home and ability to speak English.....	1.7	1.5	0.9	0.7
Educational attainment.....	1.3	1.1	0.6	0.6
School enrollment.....	1.7	1.6	0.8	0.7
Type of residence (urban/rural).....	2.2	2.2	1.3	0.9
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	0.9	0.8	0.7	0.7
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.3	0.6	0.5
Occupation.....	1.2	1.0	0.5	0.5
Class of worker.....	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.4	1.2	0.6	0.5
Means of transportation to work.....	1.4	1.2	0.6	0.6
Travel time to work.....	1.2	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.2	0.6	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.7	1.5	0.6	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.6	1.3	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.8	0.5
Condominium status.....	1.2	1.1	0.5	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.5	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.1	0.5	0.5
Gross rent.....	1.2	1.1	0.5	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.5	0.5
Kitchen facilities.....	1.2	1.2	0.5	0.5
Source of water, plumbing facilities.....	1.2	1.1	0.5	0.5
Sewage disposal.....	1.2	1.0	0.5	0.4
House heating fuel.....	1.2	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.5	0.5
Year householder moved into structure.....	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Maine

(Percent of persons or housing units in sample)

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	46 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.5	0.4
Household type and relationship.....	1.2	1.1	0.6	0.5
Children ever born.....	2.0	2.3	1.3	1.2
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.9	1.7	1.0	0.8
Place of birth.....	2.1	2.0	1.2	1.0
Citizenship.....	1.8	1.5	0.9	0.7
Residence in 1985.....	2.0	1.8	1.0	0.9
Year of entry.....	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.7
Educational attainment.....	1.8	1.1	0.6	0.5
School enrollment.....	1.7	1.5	0.9	0.8
Type of residence (urban/rural).....	2.2	1.9	0.9	0.8
Household type.....	1.2	1.1	0.6	0.5
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	0.9	0.9	0.7	0.7
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.8	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.4	1.2	0.7	0.6
Means of transportation to work.....	1.6	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.5	1.3	0.6	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	0.9	0.5	0.5
Condominium status.....	1.4	1.0	0.5	0.5
Units in structure.....	1.2	1.0	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.2	1.0	0.6	0.5
Source of water-plumbing facilities.....	1.3	1.0	0.6	0.5
Sewage disposal.....	1.1	0.9	0.5	0.5
House heating fuel.....	1.2	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.3	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Maryland**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	0.9	0.6	0.4
Household type and relationship.....	1.3	1.0	0.6	0.5
Children ever born.....	2.5	2.2	1.4	1.1
Work disability and mobility limitation status.....	1.2	1.1	0.6	0.5
Ancestry.....	2.1	1.7	1.0	0.8
Place of birth.....	2.0	1.6	1.0	0.7
Citizenship.....	1.8	1.5	0.9	0.6
Residence in 1985.....	2.0	1.8	1.0	0.8
Year of entry.....	1.5	1.3	0.7	0.5
Language spoken at home and ability to speak English.....	1.7	1.4	0.8	0.6
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.4	0.9	0.6
Type of residence (urban/rural).....	2.1	2.1	1.1	0.8
Household type.....	1.3	1.0	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	1.0	0.9	0.8	0.6
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.1	0.6	0.5
Class of worker.....	1.4	1.3	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.4	1.1	0.8	0.5
Place of work.....	1.5	1.3	0.8	0.6
Means of transportation to work.....	1.4	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1985.....	1.4	1.2	0.7	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.5	1.3	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.5	1.2	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.6	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.1	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.1	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.2	1.0	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.1	1.0	0.6	0.4
House heating fuel.....	1.2	1.0	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.6	0.5

**Table C. Standard Error Design Factors—Massachusetts**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	0.9	0.5	0.4
Household type and relationship.....	1.3	1.1	0.6	0.5
Children ever born.....	2.6	2.3	1.1	1.0
Work disability and mobility limitation status.....	1.2	1.1	0.5	0.5
Ancestry.....	2.0	1.6	0.8	0.7
Place of birth.....	2.3	2.1	1.1	0.9
Citizenship.....	1.9	1.6	0.6	0.7
Residence in 1985.....	2.1	1.9	1.0	0.9
Year of entry.....	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.5	0.6	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.8	1.5	0.6	0.7
Type of residence (urban/rural).....	2.1	1.8	1.0	1.0
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.2	1.1	0.5	0.5
Group quarters.....	1.0	0.9	0.6	0.6
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.3	1.0	0.5	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.3	1.1	0.5	0.5
Class of worker.....	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.5	1.3	0.7	0.6
Means of transportation to work.....	1.5	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.1	0.5	0.5
Family income in 1989.....	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons).....	1.6	1.3	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.6	1.2	0.6	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	0.9	0.5	0.5
Condominium status.....	1.2	1.1	0.6	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.1	0.5	0.5
Gross rent.....	1.2	1.1	0.5	0.5
Household income in 1989.....	1.2	1.1	0.5	0.5
Year structure built.....	1.2	1.1	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.5	0.5
Kitchen facilities.....	1.2	1.0	0.5	0.5
Source of water, plumbing facilities.....	1.4	1.2	0.5	0.5
Sewage disposal.....	1.2	1.1	0.5	0.5
House heating fuel.....	1.3	1.1	0.5	0.5
Telephone in housing unit.....	1.3	1.1	0.5	0.5
Vehicles available.....	1.3	1.2	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Michigan

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age	1.2	1.0	0.8	0.5
Sex	1.2	1.0	0.8	0.5
Race	1.2	1.0	0.8	0.5
Hispanic origin (of any race)	1.2	1.0	0.8	0.5
Marital status	1.2	0.8	0.5	0.4
Household type and relationship	1.3	1.0	0.8	0.5
Children ever born	2.6	2.3	1.5	1.2
Work disability and mobility limitation status	1.2	1.0	0.8	0.5
Ancestry	2.0	1.6	0.9	0.8
Place of birth	2.4	2.1	1.5	1.2
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.0	1.8	1.1	0.9
Year of entry	1.4	1.2	0.8	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.8	0.6
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/rural)	2.0	2.0	1.7	1.4
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.0	0.8	0.5
Group quarters	1.0	0.9	0.9	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.5	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.8	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.8	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.6	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.8	0.5
Type of residence (urban/rural)	1.0	1.0	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.5	1.0	0.6	0.5
Source of water, plumbing facilities	1.2	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.4	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. Standard Error Design Factors—Minnesota

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.4
Household type and relationship.....	1.3	1.0	0.6	0.6
Children ever born.....	2.5	2.2	1.5	1.3
Work disability and mobility limitation status.....	1.2	1.0	0.5	0.5
Ancestry.....	1.8	1.5	0.9	0.8
Place of birth.....	2.1	1.9	1.3	1.1
Citizenship.....	1.7	1.4	0.8	0.7
Residence in 1985.....	1.9	1.7	1.1	0.9
Year of entry.....	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.6
Educational attainment.....	1.3	1.1	0.6	0.6
School enrollment.....	1.6	1.3	0.8	0.7
Type of residence (urban/rural).....	2.9	1.9	1.4	1.1
Household type.....	1.3	1.0	0.6	0.5
Family type.....	1.2	1.0	0.5	0.5
Group quarters.....	1.0	0.6	0.8	0.8
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.5	0.5
Industry.....	1.8	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.6
Class of worker.....	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.4	1.1	0.6	0.5
Place of work.....	1.4	1.2	0.7	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.8	1.3	0.7	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.4	1.1	0.6	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	0.9	0.5	0.5
Condominium status.....	1.1	1.0	0.5	0.5
Units in structure.....	1.1	1.0	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.1	1.0	0.5	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.1	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.0	0.5	0.5
Kitchen facilities.....	1.1	1.0	0.6	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.5	0.5
Sewage disposal.....	1.1	0.9	0.5	0.4
House heating fuel.....	1.2	1.1	0.5	0.5
Telephone in housing unit.....	1.1	1.0	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.1	1.0	0.5	0.5

Table C. Standard Error Design Factors—Mississippi

(Percent of persons or housing units in sample)

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	1.0	0.8	0.5
Household type and relationship.....	1.3	1.2	0.7	0.5
Children ever born.....	3.0	2.9	1.8	1.5
Work disability and mobility limitation status.....	1.2	1.1	0.5	0.5
Ancestry.....	2.4	2.3	1.2	1.1
Place of birth.....	2.8	2.8	1.5	1.3
Citizenship.....	1.9	1.7	0.9	0.7
Residence in 1985.....	2.2	2.1	1.1	0.9
Year of entry.....	1.3	1.1	0.6	0.6
Language spoken at home and ability to speak English.....	1.7	1.5	0.8	0.7
Educational attainment.....	1.3	1.2	0.6	0.5
School enrollment.....	1.7	1.5	0.6	0.7
Type of residence (urban/rural).....	2.4	2.4	1.7	1.0
Household type.....	1.3	1.2	0.7	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	1.0	1.0	1.0	1.0
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.1	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.1	0.6	0.5
Class of worker.....	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.6
Number of workers in family.....	1.3	1.2	0.6	0.5
Place of work.....	1.5	1.3	0.7	0.6
Means of transportation to work.....	1.4	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.3	0.7	0.6
Household income in 1989.....	1.2	1.1	0.5	0.5
Family income in 1989.....	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons).....	1.8	1.5	0.6	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.5	1.3	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.2	1.1	0.6	0.5
Condominium status.....	1.2	1.1	0.5	0.5
Units in structure.....	1.2	1.1	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.1	0.5	0.5
Gross rent.....	1.2	1.1	0.5	0.5
Household income in 1989.....	1.2	1.1	0.5	0.5
Year structure built.....	1.2	1.1	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.5	0.5
Kitchen facilities.....	1.2	1.2	0.5	0.6
Source of water, plumbing facilities.....	1.3	1.3	0.5	0.4
Sewage disposal.....	1.2	1.1	0.6	0.5
House heating fuel.....	1.2	1.1	0.5	0.5
Telephone in housing unit.....	1.3	1.1	0.5	0.5
Vehicles available.....	1.3	1.1	0.5	0.5
Year householder moved into structure.....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.8	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Missouri

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age .....	1.2	1.0	0.6	0.5
Sex .....	1.2	1.0	0.6	0.5
Race .....	1.2	1.0	0.6	0.5
Hispanic origin (of any race) .....	1.2	1.0	0.6	0.5
Marital status .....	1.1	0.9	0.6	0.4
Household type and relationship .....	1.3	1.1	0.6	0.5
Children ever born .....	2.6	2.4	1.4	1.3
Work disability and mobility limitation status .....	1.2	1.0	0.5	0.5
Ancestry .....	2.0	1.7	0.9	0.8
Place of birth .....	2.3	2.1	1.0	1.0
Citizenship .....	1.8	1.6	0.8	0.7
Residence in 1985 .....	2.1	1.8	1.0	0.8
Year of entry .....	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English .....	1.7	1.4	0.7	0.7
Educational attainment .....	1.3	1.1	0.6	0.5
School enrollment .....	1.7	1.5	0.8	0.7
Type of residence (urban/rural) .....	2.4	2.4	1.2	0.7
Household type .....	1.3	1.1	0.6	0.6
Family type .....	1.2	1.1	0.5	0.5
Group quarters .....	1.0	0.9	0.8	0.8
Subfamily type and presence of children .....	1.2	1.0	0.5	0.5
Employment status .....	1.2	1.0	0.5	0.5
Industry .....	1.3	1.1	0.6	0.5
Occupation .....	1.2	1.0	0.5	0.5
Class of worker .....	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989 .....	1.2	1.0	0.5	0.5
Number of workers in family .....	1.3	1.1	0.6	0.5
Place of work .....	1.5	1.3	0.7	0.6
Means of transportation to work .....	1.5	1.2	0.7	0.6
Travel time to work .....	1.3	1.1	0.6	0.5
Private vehicle occupancy .....	1.5	1.2	0.7	0.6
Time leaving home to go to work .....	1.3	1.1	0.6	0.5
Type of income in 1989 .....	1.4	1.2	0.6	0.6
Household income in 1989 .....	1.2	1.0	0.5	0.5
Family income in 1989 .....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons) .....	1.6	1.4	0.7	0.6
Poverty status in 1989 (families) .....	1.2	1.0	0.5	0.5
Armed Forces and veteran status .....	1.4	1.2	0.6	0.5
<b>HOUSING</b>				
Age of householder .....	1.2	1.0	0.5	0.5
Race of householder .....	1.2	1.0	0.5	0.5
Hispanic origin of householder .....	1.2	1.0	0.5	0.5
Type of residence (urban/rural) .....	1.1	1.0	0.5	0.5
Condominium status .....	1.2	1.0	0.5	0.5
Units in structure .....	1.2	1.1	0.5	0.5
Tenure .....	1.2	1.0	0.5	0.5
Occupancy status .....	1.2	1.0	0.6	0.5
Value .....	1.2	1.0	0.5	0.5
Gross rent .....	1.2	1.0	0.5	0.5
Household income in 1989 .....	1.2	1.0	0.5	0.5
Year structure built .....	1.2	1.0	0.5	0.5
Rooms, bedrooms .....	1.2	1.0	0.5	0.5
Kitchen facilities .....	1.2	1.1	0.5	0.5
Source of water, plumbing facilities .....	1.3	1.1	0.6	0.6
Sewage disposal .....	1.2	1.0	0.5	0.4
House heating fuel .....	1.3	1.0	0.5	0.5
Telephone in housing unit .....	1.2	1.1	0.5	0.5
Vehicles available .....	1.3	1.1	0.6	0.5
Year householder moved into structure .....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs .....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs .....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989 .....	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income .....	1.2	1.0	0.5	0.5



**Table C. Standard Error Design Factors—Montana**  
[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.5
Household type and relationship.....	1.2	1.1	0.7	0.5
Children ever born.....	2.8	2.4	1.7	1.4
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.7	1.6	1.0	0.7
Place of birth.....	1.9	1.8	1.1	0.8
Citizenship.....	1.8	1.5	1.0	0.7
Residence in 1989.....	2.0	1.8	1.1	0.9
Year of entry.....	1.2	1.0	0.6	0.5
Language spoken at home and ability to speak English.....	1.8	1.3	0.8	0.7
Educational attainment.....	1.3	1.1	0.7	0.5
School enrollment.....	1.7	1.4	0.9	0.7
Type of residence (urban/rural).....	2.4	2.4	1.6	1.1
Household type.....	1.2	1.1	0.7	0.5
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	0.9	0.8	0.6	0.5
Subfamily type and presence of children.....	1.2	0.9	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.7	0.5
Place of work.....	1.5	1.2	0.8	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.7	0.6
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.3	1.1	0.7	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.1	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	1.0	0.6	0.4
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.1	1.1	0.6	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.1	1.0	0.5	0.4
House heating fuel.....	1.2	1.0	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.1	1.0	0.6	0.5

**Table C. Standard Error Design Factors—Nebraska**

(Percent of persons or housing units in sample)

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.4
Household type and relationship.....	1.2	1.1	0.7	0.5
Children ever born.....	2.5	2.9	1.8	1.4
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.8	1.6	1.1	0.8
Place of birth.....	2.1	2.0	1.4	1.1
Citizenship.....	1.7	1.4	1.0	0.7
Residence in 1985.....	2.0	1.8	1.2	0.9
Year of entry.....	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.8	1.4	0.9	0.6
Educational attainment.....	1.3	1.1	0.7	0.5
School enrollment.....	1.6	1.4	0.9	0.7
Type of residence (urban/rural).....	2.1	2.1	1.5	1.0
Household type.....	1.2	1.1	0.7	0.5
Family type.....	1.2	1.2	0.5	0.5
Group quarters.....	0.9	0.8	0.7	0.7
Subfamily type and presence of children.....	1.2	0.9	0.5	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.7	0.5
Place of work.....	1.5	1.2	0.8	0.5
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.7	0.5
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.1	0.7	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.5	1.4	0.8	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.3	1.1	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	0.8	0.6	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.1	1.0	0.5	0.5
Tenure.....	1.2	1.0	0.5	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.1	1.0	0.6	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.7	0.5
Sewage disposal.....	1.0	1.0	0.6	0.4
House heating fuel.....	1.3	1.0	0.6	0.5
Telephone in housing unit.....	1.2	1.0	0.6	0.5
Vehicles available.....	1.3	1.1	0.7	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Nevada**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.5	0.5
Sex.....	1.2	1.0	0.5	0.5
Race.....	1.2	1.0	0.5	0.5
Hispanic origin (of any race).....	1.2	1.0	0.5	0.5
Marital status.....	1.2	0.9	0.5	0.5
Household type and relationship.....	1.3	1.1	0.5	0.5
Children ever born.....	2.0	2.2	1.3	1.3
Work disability and mobility limitation status.....	1.3	1.0	0.6	0.5
Ancestry.....	2.1	1.7	0.9	0.9
Place of birth.....	1.7	1.5	0.8	0.7
Citizenship.....	1.8	1.4	0.8	0.7
Residence in 1985.....	2.0	1.7	1.0	0.9
Year of entry.....	1.5	1.2	0.6	0.6
Language spoken at home and ability to speak English.....	1.7	1.4	0.8	0.7
Educational attainment.....	1.4	1.1	0.6	0.5
School enrollment.....	1.9	1.4	0.8	0.7
Type of residence (urban/rural).....	2.2	2.2	1.7	1.5
Household type.....	1.3	1.1	0.8	0.6
Family type.....	1.3	1.0	0.6	0.5
Group quarters.....	1.1	1.0	1.0	1.0
Subfamily type and presence of children.....	1.3	1.0	0.8	0.6
Employment status.....	1.3	1.0	0.6	0.5
Industry.....	1.4	1.1	0.6	0.5
Occupation.....	1.9	1.0	0.6	0.5
Class of worker.....	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989.....	1.3	1.0	0.8	0.5
Number of workers in family.....	1.4	1.2	0.6	0.6
Place of work.....	1.6	1.2	0.7	0.6
Means of transportation to work.....	1.5	1.2	0.7	0.6
Travel time to work.....	1.4	1.1	0.6	0.5
Private vehicle occupancy.....	1.6	1.2	0.7	0.6
Time leaving home to go to work.....	1.4	1.1	0.7	0.5
Type of income in 1989.....	1.5	1.2	0.8	0.5
Household income in 1989.....	1.3	1.0	0.6	0.5
Family income in 1989.....	1.3	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.5	1.1	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	0.9	0.5	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.1	1.0	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.3	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.0	0.5	0.5
Kitchen facilities.....	1.4	1.0	0.5	0.5
Source of water, plumbing facilities.....	1.5	1.1	0.5	0.4
Sewage disposal.....	1.2	1.0	0.5	0.4
House heating fuel.....	1.2	1.0	0.5	0.5
Telephone in housing unit.....	1.2	1.0	0.5	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—New Hampshire**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 35 percent	35 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.8	0.5	0.5
Household type and relationship.....	1.2	1.1	0.6	0.5
Children ever born.....	2.5	2.2	1.3	1.2
Work disability and mobility limitation status.....	1.2	1.0	0.5	0.5
Ancestry.....	1.9	1.6	0.9	0.8
Place of birth.....	1.9	1.8	0.9	0.8
Citizenship.....	1.8	1.5	0.9	0.8
Residence in 1985.....	2.0	1.8	1.0	0.9
Year of entry.....	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.4	0.8	0.7
Educational attainment.....	1.8	1.1	0.6	0.6
School enrollment.....	1.8	1.5	0.9	0.6
Type of residence (urban/rural).....	2.1	1.8	1.0	0.9
Household type.....	1.2	1.1	0.6	0.5
Family type.....	1.2	1.1	0.5	0.5
Group quarters.....	0.8	0.8	0.5	0.7
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.4	1.2	0.6	0.6
Place of work.....	1.4	1.2	0.7	0.6
Means of transportation to work.....	1.5	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.5	1.3	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.4	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.5	0.5
Condominium status.....	1.2	1.0	0.5	0.5
Units in structure.....	1.2	1.0	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1988.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.0	0.5	0.5
Kitchen facilities.....	1.2	0.9	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.5	0.5
Sewage disposal.....	1.1	1.0	0.5	0.4
House heating fuel.....	1.2	1.0	0.5	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1988.....	1.2	1.1	0.5	0.5
Household income in 1988 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—New Jersey

[Percent of persons or housing units in sample]

Characteristic	Less than 16 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.1	1.3	1.0
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.1	1.7	0.9	0.7
Place of birth	2.0	1.7	1.0	0.8
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.2	1.9	1.0	0.9
Year of entry	1.6	1.3	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.6	0.5
School enrollment	1.6	1.5	0.9	0.7
Type of residence (urban/rural)	2.2	1.9	1.4	0.8
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.1	0.9	0.8	0.6
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.8	0.6
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.1	0.6	0.6
Class of worker	1.6	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.8	0.6
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.6
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.6
Household income in 1989	1.2	1.1	0.6	0.5
Family income in 1989	1.2	1.1	0.6	0.6
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.9	0.5
Occupancy status	1.2	1.0	0.6	0.6
Value	1.2	1.1	0.5	0.5
Gross rent	1.3	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.6
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.3	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.2	0.6	0.6
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—New Mexico**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.5
Household type and relationship.....	1.8	1.1	0.7	0.6
Children ever born.....	2.9	2.5	1.7	1.4
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.4	2.0	1.4	1.2
Place of birth.....	2.0	1.7	1.3	1.1
Citizenship.....	1.8	1.5	1.0	0.8
Residence in 1985.....	2.1	1.9	1.2	1.0
Year of entry.....	1.4	1.1	0.7	0.6
Language spoken at home and ability to speak English.....	1.6	1.3	0.8	0.7
Educational attainment.....	1.3	1.1	0.7	0.6
School enrollment.....	1.7	1.5	0.9	0.8
Type of residence (urban/rural).....	2.6	2.5	1.4	1.4
Household type.....	1.3	1.1	0.7	0.5
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	1.0	0.8	0.9	0.3
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.4	1.2	0.7	0.6
Place of work.....	1.3	1.3	0.7	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.6
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.7	0.6
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.7	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.2	0.8	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	0.9	0.6	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.2	1.2	0.6	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.2	1.0	0.6	0.5
House heating fuel.....	1.2	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.6	0.5

**Table C. Standard Error Design Factors—New York**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	0.9	0.5	0.4
Household type and relationship.....	1.4	1.1	0.6	0.5
Children ever born.....	2.6	2.2	1.3	1.1
Work disability and mobility limitation status.....	1.3	1.0	0.5	0.5
Ancestry.....	2.1	1.6	0.9	0.8
Place of birth.....	2.4	2.4	1.4	1.2
Citizenship.....	1.8	1.5	0.9	0.7
Residence in 1985.....	2.3	1.9	1.1	0.9
Year of entry.....	1.6	1.2	0.5	0.5
Language spoken at home and ability to speak English.....	1.7	1.4	0.8	0.7
Educational attainment.....	1.4	1.1	0.6	0.5
School enrollment.....	1.8	1.5	0.9	0.7
Type of residence (urban/rural).....	2.1	1.8	1.7	1.5
Household type.....	1.4	1.1	0.6	0.5
Family type.....	1.3	1.1	0.6	0.5
Group quarters.....	1.1	0.8	0.8	0.8
Subfamily type and presence of children.....	1.3	1.0	0.5	0.5
Employment status.....	1.3	1.0	0.6	0.5
Industry.....	1.4	1.1	0.6	0.5
Occupation.....	1.3	1.0	0.6	0.5
Class of worker.....	1.5	1.2	0.7	0.5
Hours per week and weeks worked in 1989.....	1.3	1.0	0.6	0.5
Number of workers in family.....	1.4	1.1	0.6	0.5
Place of work.....	1.5	1.2	0.7	0.5
Means of transportation to work.....	1.5	1.3	0.7	0.5
Travel time to work.....	1.4	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.5
Time leaving home to go to work.....	1.4	1.1	0.6	0.5
Type of income in 1989.....	1.5	1.2	0.6	0.5
Household income in 1989.....	1.3	1.0	0.6	0.5
Family income in 1989.....	1.3	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.7	1.5	0.8	0.7
Poverty status in 1989 (families).....	1.3	1.0	0.5	0.5
Armed Forces and veteran status.....	1.7	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.5	0.5
Condominium status.....	1.3	1.1	0.5	0.5
Units in structure.....	1.2	1.1	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.3	1.1	0.5	0.5
Household income in 1989.....	1.3	1.0	0.6	0.5
Year structure built.....	1.3	1.0	0.6	0.5
Rooms, bedrooms.....	1.3	1.1	0.5	0.5
Kitchen facilities.....	1.4	1.2	0.6	0.5
Source of water, plumbing facilities.....	1.4	1.1	0.6	0.5
Sewage disposal.....	1.2	1.0	0.5	0.5
House heating fuel.....	1.3	1.1	0.6	0.5
Telephones in housing unit.....	1.3	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.3	1.1	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—North Carolina

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.5	0.5
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.6	2.5	1.6	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.3	2.0	1.0	0.9
Place of birth	2.4	2.2	1.1	1.1
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.0	1.9	1.0	0.9
Year of entry	1.4	1.1	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.3	2.2	1.5	0.8
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	0.9	0.8	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.2	0.6	0.5
Place of work	1.6	1.2	0.7	0.6
Means of transportation to work	1.6	1.2	0.7	0.6
Travel time to work	1.3	1.2	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.3	0.7	0.6
<b>HOUSING</b>				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	1.1	0.6	0.6
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.8	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.2	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5



Table C. Standard Error Design Factors—North Dakota

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	46 percent or more
<b>POPULATION</b>				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.6
Race	1.2	1.0	0.6	0.6
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.1	0.8	0.6
Children ever born	2.8	2.5	2.1	1.4
Work disability and mobility limitation status	1.2	1.0	0.8	0.5
Ancestry	1.8	1.6	1.2	0.8
Place of birth	2.1	2.1	1.7	1.1
Citizenship	1.8	1.6	1.1	0.7
Residence in 1985	2.0	1.8	1.5	0.9
Year of entry	1.3	1.0	0.8	0.5
Language spoken at home and ability to speak English	1.6	1.3	1.0	0.6
Educational attainment	1.8	1.1	0.7	0.5
School enrollment	1.6	1.4	1.1	0.7
Type of residence (urban/rural)	2.2	2.2	1.7	0.9
Household type	1.2	1.1	0.8	0.6
Family type	1.2	1.0	0.7	0.5
Group quarters	0.7	0.7	0.7	0.7
Subfamily type and presence of children	1.2	0.9	0.6	0.5
Employment status	1.2	1.0	0.7	0.5
Industry	1.3	1.0	0.7	0.5
Occupation	1.2	1.0	0.7	0.5
Class of worker	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.1	0.8	0.6
Place of work	1.5	1.2	0.9	0.6
Means of transportation to work	1.4	1.1	0.8	0.5
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.5	1.1	0.8	0.6
Time leaving home to go to work	1.3	1.0	0.7	0.5
Type of income in 1989	1.4	1.1	0.8	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.7	0.5
Poverty status in 1989 (persons)	1.5	1.3	0.8	0.6
Poverty status in 1989 (families)	1.2	0.9	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.9	0.6
<b>HOUSING</b>				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	0.9	0.7	0.6
Condominium status	1.2	1.0	0.7	0.5
Units in structure	1.1	1.0	0.7	0.6
Tenure	1.2	1.0	0.8	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.7	0.5
Kitchen facilities	1.4	1.4	0.9	0.6
Source of water, plumbing facilities	1.5	1.1	0.8	0.6
Sewage disposal	1.2	1.0	0.6	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.0	0.7	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	0.9	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	0.9	0.6	0.5

Table C. Standard Error Design Factors—Ohio

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.5	0.4
Household type and relationship.....	1.2	1.0	0.5	0.6
Children ever born.....	2.6	2.3	1.3	1.1
Work disability and mobility limitation status.....	1.2	1.0	0.5	0.5
Ancestry.....	1.9	1.7	0.9	0.8
Place of birth.....	2.3	2.2	1.2	1.0
Citizenship.....	1.8	1.5	0.8	0.7
Residence in 1985.....	2.0	1.9	0.9	0.9
Year of entry.....	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.6	1.4	0.7	0.6
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.6	1.4	0.8	0.7
Type of residence (urban/rural).....	2.4	2.4	0.9	0.9
Household type.....	1.2	1.0	0.5	0.5
Family type.....	1.2	1.0	0.5	0.5
Group quarters.....	1.0	0.9	0.8	0.8
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.5	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.5	0.6
Class of worker.....	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.4	1.2	0.6	0.6
Means of transportation to work.....	1.4	1.2	0.6	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.2	0.6	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.6
Type of income in 1983.....	1.3	1.2	0.6	0.6
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.8	1.4	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.4	1.2	0.6	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	1.0	0.6	0.6
Condominium status.....	1.2	1.0	0.5	0.5
Units in structure.....	1.1	1.1	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.0	0.5	0.5
Kitchen facilities.....	1.2	1.1	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.1	1.0	0.5	0.4
House heating fuel.....	1.3	1.1	0.5	0.5
Telephone in housing unit.....	1.2	1.1	0.5	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Oklahoma**  
 [Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.5	0.4
Household type and relationship.....	1.2	1.1	0.6	0.5
Children ever born.....	2.5	2.4	1.6	1.3
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.1	1.6	1.0	0.6
Place of birth.....	2.1	1.9	1.1	0.9
Citizenship.....	1.6	1.6	0.9	0.7
Residence in 1985.....	2.0	1.8	1.0	0.9
Year of entry.....	1.4	1.1	0.6	0.6
Language spoken at home and ability to speak English.....	1.7	1.5	0.8	0.7
Educational attainment.....	1.2	1.1	0.6	0.5
School enrollment.....	1.7	1.5	0.8	0.7
Type of residence (urban/rural).....	2.5	2.5	1.5	1.3
Household type.....	1.2	1.1	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	1.0	0.6	0.6	0.6
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.3	1.2	0.6	0.5
Place of work.....	1.5	1.3	0.7	0.6
Means of transportation to work.....	1.4	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1985.....	1.4	1.2	0.6	0.5
Household income in 1985.....	1.2	1.0	0.5	0.5
Family income in 1985.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.5	1.0	0.5	0.5
Armed Forces and veteran status.....	1.4	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.5	0.5
Condominium status.....	1.2	1.1	0.5	0.5
Units in structure.....	1.2	1.1	0.5	0.5
Tenure.....	1.2	1.0	0.5	0.5
Occupancy status.....	1.2	1.0	0.5	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.1	1.0	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.2	0.6	0.6
Sewage disposal.....	1.1	1.0	0.5	0.4
House heating fuel.....	1.2	1.0	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Oregon**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.4
Household type and relationship.....	1.2	1.1	0.6	0.5
Children ever born.....	2.5	2.2	1.4	1.1
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.9	1.6	1.0	0.6
Place of birth.....	1.8	1.5	0.9	0.8
Citizenship.....	1.7	1.4	0.9	0.7
Residence in 1955.....	2.0	1.7	1.0	0.8
Year of entry.....	1.5	1.2	0.7	0.6
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.6
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.4	0.9	0.7
Type of residence (urban/rural).....	2.6	2.6	1.5	1.1
Household type.....	1.2	1.1	0.6	0.5
Family type.....	1.2	1.0	0.5	0.5
Group quarters.....	1.1	1.0	0.9	0.6
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.6	1.2	0.7	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.3	1.1	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.6	0.6
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.2	1.1	0.8	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.7	0.5
Sewage disposal.....	1.2	1.0	0.6	0.4
House heating fuel.....	1.2	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.6	0.5

**Table C. Standard Error Design Factors—Pennsylvania**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	0.9	0.6	0.4
Household type and relationship.....	1.3	1.0	0.6	0.5
Children ever born.....	2.6	2.3	1.3	1.1
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.9	1.6	0.9	0.6
Place of birth.....	2.6	2.3	1.2	1.1
Citizenship.....	1.9	1.5	0.9	0.7
Residence in 1985.....	2.2	1.9	1.1	0.9
Year of entry.....	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.4	0.8	0.7
Educational attainment.....	1.8	1.1	0.6	0.5
School enrollment.....	1.8	1.5	0.9	0.7
Type of residence (urban/rural).....	2.0	1.8	1.2	1.2
Household type.....	1.3	1.0	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	1.0	0.8	0.8	0.6
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.5	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.6	1.2	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.5	1.2	0.7	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.6	1.2	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.5	0.5
Condominium status.....	1.2	1.1	0.5	0.5
Units in structure.....	1.2	1.0	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.2	1.1	0.5	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.5	0.5
Kitchen facilities.....	1.4	1.1	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.5	0.5
Sewage disposal.....	1.2	1.0	0.5	0.5
House heating fuel.....	1.3	1.1	0.5	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.8	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Rhode Island**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age .....	1.2	1.0	0.6	0.5
Sex .....	1.2	1.0	0.6	0.5
Race .....	1.2	1.0	0.6	0.5
Hispanic origin (of any race) .....	1.2	1.0	0.6	0.5
Marital status .....	1.2	0.9	0.6	0.5
Household type and relationship .....	1.3	1.0	0.6	0.5
Children ever born .....	2.5	2.2	0.6	0.5
Work disability and mobility limitation status .....	1.2	1.1	0.6	0.5
Ancestry .....	2.0	1.8	0.6	0.5
Place of birth .....	2.1	1.8	0.6	0.5
Citizenship .....	1.8	1.6	0.6	0.5
Residence in 1985 .....	2.1	1.9	0.6	0.5
Year of entry .....	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English .....	1.7	1.4	0.6	0.5
Educational attainment .....	1.3	1.1	0.6	0.5
School enrollment .....	1.8	1.5	0.6	0.5
Type of residence (urban/rural) .....	2.1	1.9	0.6	0.5
Household type .....	1.3	1.0	0.6	0.5
Family type .....	1.2	1.1	0.6	0.5
Group quarters .....	0.9	0.7	0.6	0.5
Subfamily type and presence of children .....	1.2	1.0	0.6	0.5
Employment status .....	1.2	1.0	0.6	0.5
Industry .....	1.3	1.1	0.6	0.5
Occupation .....	1.2	1.1	0.6	0.5
Class of worker .....	1.5	1.3	0.6	0.5
Hours per week and weeks worked in 1989 .....	1.2	1.0	0.6	0.5
Number of workers in family .....	1.3	1.2	0.6	0.5
Place of work .....	1.5	1.2	0.6	0.5
Means of transportation to work .....	1.5	1.2	0.6	0.5
Travel time to work .....	1.3	1.1	0.6	0.5
Private vehicle occupancy .....	1.5	1.3	0.6	0.5
Time leaving home to go to work .....	1.3	1.1	0.6	0.5
Type of income in 1989 .....	1.4	1.2	0.6	0.5
Household income in 1989 .....	1.2	1.1	0.6	0.5
Family income in 1989 .....	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons) .....	1.6	1.3	0.6	0.5
Poverty status in 1989 (families) .....	1.2	1.1	0.6	0.5
Armed Forces and veteran status .....	1.5	1.2	0.6	0.5
<b>HOUSING</b>				
Age of householder .....	1.2	1.0	0.6	0.5
Race of householder .....	1.2	1.0	0.6	0.5
Hispanic origin of householder .....	1.2	1.0	0.6	0.5
Type of residence (urban/rural) .....	1.0	0.9	0.6	0.5
Condominium status .....	1.2	1.1	0.6	0.5
Units in structure .....	1.2	1.1	0.6	0.5
Tenure .....	1.2	1.0	0.6	0.5
Occupancy status .....	1.2	1.0	0.6	0.5
Value .....	1.2	1.0	0.6	0.5
Gross rent .....	1.3	1.1	0.6	0.5
Household income in 1989 .....	1.2	1.0	0.6	0.5
Year structure built .....	1.2	1.0	0.6	0.5
Rooms, bedrooms .....	1.2	1.1	0.6	0.5
Kitchen facilities .....	1.2	1.0	0.6	0.5
Source of water, plumbing facilities .....	1.4	1.2	0.6	0.5
Sewage disposal .....	1.2	1.1	0.6	0.5
House heating fuel .....	1.3	1.1	0.6	0.5
Telephone in housing unit .....	1.3	1.1	0.6	0.5
Vehicles available .....	1.4	1.2	0.6	0.5
Year householder moved into structure .....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs .....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs .....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1982 .....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income .....	1.2	1.0	0.6	0.5

**Table C. Standard Error Design Factors—South Carolina**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	1.0	0.5	0.5
Household type and relationship.....	1.3	1.1	0.8	0.5
Children ever born.....	2.7	2.5	1.4	1.4
Work disability and mobility limitation status.....	1.2	1.1	0.6	0.5
Ancestry.....	2.4	2.1	1.2	1.0
Place of birth.....	2.4	2.2	1.3	1.2
Citizenship.....	1.9	1.6	0.9	0.8
Residence in 1985.....	2.1	1.9	1.0	0.9
Year of entry.....	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.5	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.5	0.8	0.7
Type of residence (urban/rural).....	2.1	1.9	1.2	0.9
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	0.9	0.9	0.9	0.9
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.2	1.1	0.6	0.5
Occupation.....	1.2	1.1	0.6	0.5
Class of worker.....	1.3	1.3	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.5	1.3	0.7	0.6
Means of transportation to work.....	1.5	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.6
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.7	1.5	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.5	1.3	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.6	0.6
Condominium status.....	1.2	1.1	0.5	0.5
Units in structure.....	1.2	1.1	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.2	1.1	0.5	0.5
Household income in 1989.....	1.2	1.1	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.5	0.5
Kitchen facilities.....	1.2	1.0	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.5	0.5
Sewage disposal.....	1.2	1.1	0.5	0.5
House heating fuel.....	1.2	1.1	0.6	0.5
Telephone in housing unit.....	1.3	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.5	0.5
Year householder moved into structure.....	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—South Dakota

(Percent of persons or housing units in sample)

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.5
Household type and relationship.....	1.3	1.1	0.7	0.5
Children ever born.....	2.7	2.4	1.8	1.5
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.9	1.7	1.1	0.8
Place of birth.....	2.2	2.0	1.5	1.1
Citizenship.....	1.7	1.4	1.0	0.7
Residence in 1989.....	2.0	1.9	1.3	0.9
Year of entry.....	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.6	1.3	0.9	0.7
Educational attainment.....	1.8	1.1	0.7	0.5
School enrollment.....	1.6	1.4	1.0	0.7
Type of residence (urban/rural).....	3.4	2.3	1.5	1.1
Household type.....	1.3	1.1	0.7	0.5
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	1.0	1.0	0.6	0.7
Subfamily type and presence of children.....	1.2	0.9	0.5	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.0	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989.....	1.2	0.8	0.6	0.5
Number of workers in family.....	1.4	1.1	0.7	0.5
Place of work.....	1.5	1.2	0.9	0.6
Means of transportation to work.....	1.5	1.2	0.6	0.5
Travel time to work.....	1.3	1.1	0.7	0.5
Private vehicle occupancy.....	1.5	1.2	0.8	0.6
Time leaving home to go to work.....	1.3	1.0	0.7	0.5
Type of income in 1989.....	1.4	1.1	0.7	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.6
Poverty status in 1989 (families).....	1.2	0.9	0.6	0.5
Armed Forces and veteran status.....	1.4	1.1	0.8	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.2	0.9	0.6	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.1	1.0	0.7	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.6
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.4	1.3	0.7	0.5
Source of water, plumbing facilities.....	1.4	1.1	0.7	0.5
Sewage disposal.....	1.2	1.0	0.6	0.4
House heating fuel.....	1.3	1.0	0.6	0.5
Telephone in housing unit.....	1.2	1.0	0.7	0.5
Vehicles available.....	1.3	1.1	0.7	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.1	0.9	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.1	0.9	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	0.9	0.6	0.5



**Table C. Standard Error Design Factors—Tennessee**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.5	0.4
Household type and relationship.....	1.2	1.0	0.6	0.5
Children ever born.....	2.6	2.4	1.5	1.3
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.2	2.0	1.1	1.0
Place of birth.....	2.3	2.1	1.2	1.0
Citizenship.....	1.6	1.6	0.9	0.7
Residence in 1985.....	2.0	1.8	1.0	0.9
Year of entry.....	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.5	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.5	0.9	0.7
Type of residence (urban/rural).....	2.5	2.5	1.3	0.8
Household type.....	1.2	1.0	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	1.0	0.8	0.8	0.8
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.5	1.3	0.7	0.6
Means of transportation to work.....	1.5	1.3	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.5	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.7	0.6
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.7	0.6
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.6	0.5
Condominium status.....	1.2	1.1	0.5	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.5	0.5
Gross rent.....	1.2	1.1	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.2	1.0	0.5	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.7	0.6
Sewage disposal.....	1.2	1.1	0.6	0.5
House heating fuel.....	1.2	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Yes: householder moved into structure.....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Texas

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age .....	1.2	1.0	0.8	0.5
Sex .....	1.2	1.0	0.6	0.5
Race .....	1.2	1.0	0.6	0.5
Hispanic origin (of any race) .....	1.2	1.0	0.6	0.5
Marital status .....	1.2	1.0	0.6	0.4
Household type and relationship .....	1.3	1.1	0.6	0.5
Children ever born .....	2.6	2.4	1.5	1.3
Work disability and mobility limitation status .....	1.2	1.1	0.6	0.5
Ancestry .....	2.4	2.0	1.1	0.9
Place of birth .....	2.3	2.1	1.3	1.1
Citizenship .....	1.8	1.5	0.9	0.7
Residence in 1985 .....	2.1	1.9	1.1	0.9
Year of entry .....	1.5	1.2	0.7	0.6
Language spoken at home and ability to speak English .....	1.6	1.4	0.8	0.6
Educational attainment .....	1.9	1.1	0.6	0.5
School enrollment .....	1.8	1.5	0.9	0.7
Type of residence (urban/rural) .....	2.5	2.5	1.5	1.3
Household type .....	1.3	1.1	0.6	0.5
Family type .....	1.2	1.1	0.6	0.5
Group quarters .....	1.0	1.0	0.9	0.8
Subfamily type and presence of children .....	1.2	1.0	0.6	0.5
Employment status .....	1.3	1.0	0.6	0.5
Industry .....	1.9	1.1	0.6	0.5
Occupation .....	1.2	1.1	0.6	0.5
Class of worker .....	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989 .....	1.2	1.0	0.6	0.5
Number of workers in family .....	1.4	1.2	0.6	0.5
Place of work .....	1.5	1.3	0.7	0.6
Means of transportation to work .....	1.5	1.2	0.7	0.6
Travel time to work .....	1.3	1.1	0.6	0.5
Private vehicle occupancy .....	1.5	1.2	0.7	0.6
Time leaving home to go to work .....	1.3	1.1	0.6	0.5
Type of income in 1989 .....	1.4	1.2	0.6	0.5
Household income in 1989 .....	1.2	1.0	0.6	0.5
Family income in 1989 .....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons) .....	1.8	1.5	0.8	0.7
Poverty status in 1989 (families) .....	1.2	1.0	0.5	0.5
Armed Forces and veteran status .....	1.5	1.3	0.7	0.6
<b>HOUSING</b>				
Age of householder .....	1.2	1.0	0.6	0.5
Race of householder .....	1.2	1.0	0.6	0.5
Hispanic origin of householder .....	1.2	1.0	0.6	0.5
Type of residence (urban/rural) .....	1.1	1.0	0.6	0.5
Condominium status .....	1.2	1.1	0.6	0.5
Units in structure .....	1.2	1.1	0.6	0.5
Tenure .....	1.2	1.0	0.6	0.5
Occupancy status .....	1.2	1.0	0.6	0.5
Value .....	1.2	1.0	0.6	0.5
Gross rent .....	1.2	1.1	0.6	0.5
Household income in 1989 .....	1.2	1.1	0.6	0.5
Year structure built .....	1.2	1.0	0.5	0.5
Rooms, bedrooms .....	1.2	1.1	0.6	0.5
Kitchen facilities .....	1.3	1.1	0.6	0.5
Source of water, plumbing facilities .....	1.3	1.1	0.5	0.5
Sewage disposal .....	1.2	1.0	0.5	0.5
House heating fuel .....	1.2	1.1	0.6	0.5
Telephone in housing unit .....	1.2	1.1	0.6	0.5
Vehicles available .....	1.3	1.1	0.5	0.5
Year householder moved into structure .....	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs .....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs .....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989 .....	1.2	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income .....	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Utah

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age .....	1.2	1.0	0.6	0.5
Sex .....	1.2	1.0	0.6	0.5
Race .....	1.2	1.0	0.6	0.5
Hispanic origin (of any race) .....	1.2	1.0	0.6	0.5
Marital status .....	1.1	0.8	0.6	0.4
Household type and relationship .....	1.4	1.2	0.8	0.6
Children ever born .....	2.7	2.4	1.7	1.3
Work disability and mobility limitation status .....	1.2	1.0	0.6	0.5
Ancestry .....	2.1	1.9	1.2	1.0
Place of birth .....	2.3	2.1	1.5	1.3
Citizenship .....	1.7	1.5	1.0	0.7
Residence in 1985 .....	2.2	2.0	1.3	1.1
Year of entry .....	1.4	1.2	0.8	0.5
Language spoken at home and ability to speak English .....	1.8	1.4	0.9	0.7
Educational attainment .....	1.3	1.1	0.7	0.5
School enrollment .....	1.5	1.4	0.9	0.7
Type of residence (urban/rural) .....	2.5	2.5	2.2	1.7
Household type .....	1.4	1.2	0.8	0.6
Family type .....	1.2	1.1	0.6	0.5
Group quarters .....	1.0	0.8	0.6	0.5
Subfamily type and presence of children .....	1.2	1.0	0.5	0.4
Employment status .....	1.2	1.0	0.6	0.5
Industry .....	1.3	1.1	0.6	0.5
Occupation .....	1.2	1.0	0.6	0.5
Class of worker .....	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989 .....	1.2	1.0	0.6	0.5
Number of workers in family .....	1.8	1.1	0.7	0.5
Place of work .....	1.4	1.2	0.8	0.6
Means of transportation to work .....	1.4	1.2	0.8	0.6
Travel time to work .....	1.3	1.1	0.7	0.5
Private vehicle occupancy .....	1.4	1.2	0.7	0.6
Time leaving home to go to work .....	1.3	1.1	0.6	0.5
Type of income in 1989 .....	1.4	1.2	0.7	0.5
Household income in 1989 .....	1.2	1.0	0.6	0.5
Family income in 1989 .....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons) .....	1.7	1.5	0.9	0.7
Poverty status in 1989 (families) .....	1.2	1.0	0.6	0.5
Armed Forces and veteran status .....	1.4	1.1	0.7	0.5
<b>HOUSING</b>				
Age of householder .....	1.2	1.0	0.6	0.5
Race of householder .....	1.2	1.0	0.6	0.5
Hispanic origin of householder .....	1.2	1.0	0.6	0.5
Type of residence (urban/rural) .....	1.2	0.5	0.5	0.5
Condominium status .....	1.2	1.1	0.6	0.5
Units in structure .....	1.1	1.0	0.6	0.5
Tenure .....	1.2	1.0	0.6	0.5
Occupancy status .....	1.2	1.0	0.6	0.5
Value .....	1.2	1.0	0.5	0.5
Gross rent .....	1.2	1.0	0.6	0.5
Household income in 1989 .....	1.2	1.0	0.6	0.5
Year structure built .....	1.2	1.0	0.6	0.5
Rooms, bedrooms .....	1.2	1.0	0.6	0.5
Kitchen facilities .....	1.2	1.0	0.7	0.6
Source of water, plumbing facilities .....	1.4	1.2	0.6	0.6
Sewage disposal .....	1.2	1.0	0.6	0.5
House heating fuel .....	1.4	1.2	0.6	0.5
Telephone in housing unit .....	1.2	1.1	0.6	0.5
Vehicles available .....	1.3	1.1	0.6	0.5
Year householder moved into structure .....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs .....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs .....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989 .....	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income .....	1.1	1.0	0.6	0.5

Table C. Standard Error Design Factors—Vermont

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.6	0.5
Household type and relationship.....	1.2	1.0	0.6	0.5
Children ever born.....	2.5	2.2	1.3	1.2
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.8	1.5	1.0	0.8
Place of birth.....	1.9	1.6	1.0	0.8
Citizenship.....	1.7	1.4	1.0	0.8
Residence in 1985.....	1.9	1.7	1.0	0.9
Year of entry.....	1.3	1.0	0.6	0.5
Language spoken at home and ability to speak English.....	1.6	1.3	0.6	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.6	1.4	1.0	0.8
Type of residence (urban/rural).....	1.7	1.7	1.4	1.4
Household type.....	1.2	1.0	0.6	0.5
Family type.....	1.1	1.0	0.6	0.5
Group quarters.....	1.0	1.1	0.6	0.8
Subfamily type and presence of children.....	1.1	0.9	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.2	1.0	0.6	0.6
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989.....	1.1	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.7	0.6
Place of work.....	1.4	1.2	0.6	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.2	1.0	0.6	0.5
Type of income in 1989.....	1.3	1.1	0.6	0.5
Household income in 1989.....	1.1	1.0	0.6	0.6
Family income in 1989.....	1.1	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.5	1.2	0.7	0.7
Poverty status in 1989 (families).....	1.1	0.9	0.6	0.5
Armed Forces and veteran status.....	1.4	1.1	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	0.9	0.9	0.6	0.5
Condominium status.....	1.1	1.0	0.6	0.5
Units in structure.....	1.1	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.1	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.1	1.0	0.6	0.5
Year structure built.....	1.1	1.0	0.6	0.5
Rooms, bedrooms.....	1.1	1.0	0.6	0.5
Kitchen facilities.....	1.1	0.9	0.6	0.6
Source of water, plumbing facilities.....	1.3	1.1	0.6	0.5
Sewage disposal.....	1.1	1.0	0.6	0.5
House heating fuel.....	1.2	1.0	0.6	0.5
Telephone in housing unit.....	1.2	1.0	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.1	0.9	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.1	0.9	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.1	0.9	0.6	0.5

**Table C. Standard Error Design Factors—Virginia**  
[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age .....	1.2	1.0	0.6	0.5
Sex .....	1.2	1.0	0.6	0.5
Race .....	1.2	1.0	0.6	0.5
Hispanic origin (of any race) .....	1.2	1.0	0.6	0.5
Marital status .....	1.1	0.9	0.6	0.4
Household type and relationship .....	1.2	1.0	0.6	0.5
Children ever born .....	2.5	2.3	1.4	1.3
Work disability and mobility limitation status .....	1.2	1.0	0.6	0.5
Ancestry .....	2.1	1.9	1.1	1.0
Place of birth .....	2.0	1.8	1.1	1.0
Citizenship .....	1.8	1.5	0.9	0.7
Residence in 1985 .....	2.0	1.8	1.0	0.8
Year of entry .....	1.5	1.2	0.7	0.5
Language spoken at home and ability to speak English .....	1.7	1.4	0.8	0.7
Educational attainment .....	1.3	1.1	0.6	0.5
School enrollment .....	1.7	1.5	0.9	0.7
Type of residence (urban/rural) .....	2.5	2.6	1.9	1.2
Household type .....	1.2	1.0	0.6	0.5
Family type .....	1.2	1.1	0.6	0.5
Group quarters .....	1.0	0.9	0.8	0.8
Subfamily type and presence of children .....	1.2	1.0	0.6	0.5
Employment status .....	1.2	1.0	0.6	0.5
Industry .....	1.3	1.1	0.6	0.5
Occupation .....	1.2	1.0	0.6	0.5
Class of worker .....	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989 .....	1.2	1.0	0.8	0.5
Number of workers in family .....	1.4	1.2	0.8	0.5
Place of work .....	1.5	1.3	0.7	0.6
Means of transportation to work .....	1.4	1.2	0.7	0.6
Travel time to work .....	1.3	1.1	0.6	0.5
Private vehicle occupancy .....	1.4	1.2	0.7	0.6
Time leaving home to go to work .....	1.3	1.1	0.6	0.5
Type of income in 1989 .....	1.4	1.2	0.6	0.5
Household income in 1989 .....	1.2	1.0	0.6	0.5
Family income in 1989 .....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons) .....	1.6	1.4	0.7	0.6
Poverty status in 1989 (families) .....	1.2	1.0	0.6	0.5
Armed Forces and veteran status .....	1.4	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder .....	1.2	1.0	0.6	0.5
Race of householder .....	1.2	1.0	0.6	0.5
Hispanic origin of householder .....	1.2	1.0	0.6	0.5
Type of residence (urban/rural) .....	1.1	1.0	0.6	0.6
Condominium status .....	1.2	1.0	0.6	0.5
Units in structure .....	1.1	1.0	0.6	0.5
Tenure .....	1.2	1.0	0.6	0.5
Occupancy status .....	1.2	1.0	0.6	0.5
Value .....	1.2	1.0	0.6	0.5
Gross rent .....	1.2	1.0	0.6	0.5
Household income in 1989 .....	1.2	1.0	0.6	0.5
Year structure built .....	1.2	1.0	0.6	0.5
Rooms, bedrooms .....	1.2	1.0	0.6	0.5
Kitchen facilities .....	1.2	1.1	0.6	0.4
Source of water, plumbing facilities .....	1.3	1.1	0.6	0.5
Sewage disposal .....	1.2	1.0	0.6	0.6
House heating fuel .....	1.2	1.0	0.6	0.5
Telephone in housing unit .....	1.2	1.1	0.6	0.6
Vehicles available .....	1.3	1.1	0.6	0.5
Year householder moved into structure .....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs .....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs .....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989 .....	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income .....	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Washington**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	0.9	0.5	0.4
Household type and relationship.....	1.2	1.1	0.6	0.6
Children ever born.....	2.5	2.2	1.3	1.2
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.8	1.6	1.0	0.8
Place of birth.....	1.8	1.6	0.9	0.8
Citizenship.....	1.7	1.4	0.8	0.7
Residence in 1985.....	2.0	1.7	1.0	0.8
Year of entry.....	1.5	1.2	0.7	0.6
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.6	1.4	0.8	0.7
Type of residence (urban/rural).....	2.3	2.0	1.5	1.1
Household type.....	1.2	1.1	0.6	0.5
Family type.....	1.2	1.1	0.6	0.6
Group quarters.....	1.0	0.9	0.7	0.7
Subfamily type and presence of children.....	1.2	1.0	0.6	0.5
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.8	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1985.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.8	1.1	0.6	0.5
Place of work.....	1.4	1.2	0.7	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1985.....	1.4	1.2	0.6	0.5
Household income in 1985.....	1.2	1.0	0.6	0.5
Family income in 1985.....	1.2	1.0	0.6	0.5
Poverty status in 1985 (persons).....	1.5	1.3	0.8	0.7
Poverty status in 1985 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.1	0.6	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.6	0.5
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1985.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.2	1.0	0.6	0.5
Source of water, plumbing facilities.....	1.4	1.1	0.6	0.5
Sewage disposal.....	1.2	1.0	0.5	0.4
House heating fuel.....	1.2	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.8	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1985.....	1.3	1.1	0.6	0.5
Household income in 1985 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.6	0.5

**Table C. Standard Error Design Factors—West Virginia**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.6
Sex.....	1.2	1.0	0.8	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.6
Marital status.....	1.1	0.9	0.6	0.4
Household type and relationship.....	1.2	1.0	0.6	0.5
Children ever born.....	2.6	2.6	1.7	1.3
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	2.1	1.9	1.1	0.9
Place of birth.....	2.5	2.3	1.4	1.1
Citizenship.....	1.8	1.5	1.0	0.8
Residence in 1985.....	2.2	1.9	1.1	0.9
Year of entry.....	1.3	1.0	0.6	0.5
Language spoken at home and ability to speak English.....	1.7	1.4	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.7	1.5	0.9	0.7
Type of residence (urban/rural).....	2.1	1.9	0.9	0.7
Household type.....	1.2	1.0	0.6	0.5
Family type.....	1.2	1.0	0.6	0.5
Group quarters.....	1.0	0.9	0.9	0.9
Subfamily type and presence of children.....	1.2	1.0	0.6	0.6
Employment status.....	1.2	1.0	0.6	0.5
Industry.....	1.8	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.6	0.5
Class of worker.....	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1985.....	1.2	1.0	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.4	1.2	0.7	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.2	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.1	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.6	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.4	1.2	0.7	0.6
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.0	0.7	0.6
Condominium status.....	1.2	1.0	0.6	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.2	1.2	1.2	0.5
Source of water, plumbing facilities.....	1.3	1.1	0.7	0.6
Sewage disposal.....	1.1	1.0	0.5	0.5
House heating fuel.....	1.2	1.1	0.6	0.5
Telephone in housing unit.....	1.2	1.1	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.6
Year householder moved into structure.....	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.0	0.5	0.5

**Table C. Standard Error Design Factors—Wisconsin**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	0.9	0.5	0.4
Household type and relationship.....	1.8	1.0	0.6	0.5
Children ever born.....	2.6	2.3	1.5	1.3
Work disability and mobility limitation status.....	1.2	1.0	0.6	0.5
Ancestry.....	1.9	1.6	0.9	0.8
Place of birth.....	2.3	2.2	1.2	1.1
Citizenship.....	1.7	1.4	0.9	0.7
Residence in 1985.....	2.0	1.7	1.0	0.9
Year of entry.....	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.7
Educational attainment.....	1.3	1.1	0.6	0.5
School enrollment.....	1.6	1.4	0.9	0.7
Type of residence (urban/rural).....	2.0	2.0	1.4	1.2
Household type.....	1.3	1.0	0.6	0.5
Family type.....	1.2	1.0	0.5	0.5
Group quarters.....	0.9	0.8	0.7	0.7
Subfamily type and presence of children.....	1.2	1.0	0.5	0.5
Employment status.....	1.2	1.0	0.5	0.5
Industry.....	1.3	1.1	0.6	0.5
Occupation.....	1.2	1.0	0.5	0.5
Class of worker.....	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989.....	1.2	1.0	0.5	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.5	1.2	0.7	0.6
Means of transportation to work.....	1.4	1.2	0.7	0.6
Travel time to work.....	1.3	1.1	0.6	0.5
Private vehicle occupancy.....	1.4	1.2	0.7	0.6
Time leaving home to go to work.....	1.3	1.1	0.6	0.5
Type of income in 1989.....	1.4	1.2	0.6	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Family income in 1989.....	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons).....	1.6	1.3	0.7	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.5	0.5
Armed Forces and veteran status.....	1.4	1.1	0.7	0.5
<b>HOUSING</b>				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.0	0.9	0.5	0.5
Condominium status.....	1.2	1.0	0.5	0.5
Units in structure.....	1.1	1.0	0.5	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.1	1.0	0.5	0.5
Gross rent.....	1.2	1.0	0.5	0.5
Household income in 1989.....	1.2	1.0	0.5	0.5
Year structure built.....	1.2	1.0	0.5	0.5
Rooms, bedrooms.....	1.2	1.0	0.5	0.5
Kitchen facilities.....	1.2	1.1	0.5	0.5
Source of water, plumbing facilities.....	1.2	1.1	0.5	0.5
Sewage disposal.....	1.1	0.9	0.5	0.5
House heating fuel.....	1.3	1.1	0.5	0.5
Telephone in housing unit.....	1.2	1.0	0.5	0.5
Vehicles available.....	1.2	1.1	0.5	0.5
Year householder moved into structure.....	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.1	1.0	0.5	0.5



**Table C. Standard Error Design Factors—Wyoming**  
 [Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
<b>POPULATION</b>				
Age.....	1.2			
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.2	1.0	0.6	0.5
Household type and relationship.....	1.1	1.0	0.6	0.5
Children ever born.....	1.3	1.1	0.7	0.4
Work disability and mobility limitation status.....	2.6	2.3	1.5	0.6
Ancestry.....	1.2	1.0	0.6	0.5
Place of birth.....	1.9	1.7	1.0	0.5
Citizenship.....	1.8	1.6	1.0	0.5
Residence in 1985.....	1.7	1.6	0.9	0.7
Year of entry.....	2.1	1.9	1.2	0.9
Language spoken at home and ability to speak English.....	1.3	1.1	0.6	0.5
Educational attainment.....	1.6	1.4	0.9	0.6
School enrollment.....	1.3	1.1	0.7	0.5
Type of residence (urban/rural).....	1.7	1.5	0.9	0.5
Household type.....	2.0	1.9	1.2	0.7
Family type.....	1.3	1.1	0.7	0.5
Group quarters.....	1.2	1.1	0.6	0.5
Subfamily type and presence of children.....	1.2	1.2	1.2	1.2
Employment status.....	1.2	1.0	0.5	0.4
Industry.....	1.2	1.0	0.5	0.5
Occupation.....	1.3	1.1	0.6	0.5
Class of worker.....	1.2	1.0	0.6	0.5
Hours per week and weeks worked in 1989.....	1.4	1.2	0.7	0.5
Number of workers in family.....	1.2	1.0	0.5	0.4
Place of work.....	1.4	1.2	0.7	0.5
Means of transportation to work.....	1.5	1.3	0.8	0.5
Travel time to work.....	1.4	1.2	0.7	0.5
Private vehicle occupancy.....	1.8	1.1	0.7	0.5
Time leaving home to go to work.....	1.4	1.2	0.7	0.5
Type of income in 1989.....	1.3	1.1	0.8	0.5
Household income in 1989.....	1.4	1.2	0.7	0.5
Family income in 1989.....	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons).....	1.2	1.0	0.6	0.5
Poverty status in 1989 (families).....	1.6	1.4	0.6	0.5
Armed Forces and veteran status.....	1.2	1.0	0.6	0.5
<b>HOUSING</b>				
Age of householder.....	1.3			
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.2	1.0	0.6	0.5
Condominium status.....	1.0	0.9	0.5	0.5
Units in structure.....	1.2	1.0	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.0	0.6	0.5
Gross rent.....	1.2	1.0	0.6	0.5
Household income in 1989.....	1.2	1.0	0.6	0.5
Year structure built.....	1.2	1.0	0.6	0.5
Rooms, bedrooms.....	1.2	1.0	0.6	0.5
Kitchen facilities.....	1.2	1.0	0.6	0.5
Source of water, plumbing facilities.....	1.2	1.0	0.6	0.5
Sewage disposal.....	1.4	1.1	0.6	0.5
House heating fuel.....	1.2	1.0	0.6	0.5
Telephone in housing unit.....	1.3	1.0	0.6	0.5
Vehicles available.....	1.3	1.1	0.6	0.5
Year householder moved into structure.....	1.3	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.3	1.0	0.6	0.5
	1.2	1.0	0.6	0.5

# APPENDIX D.

## Collection and Processing Procedures

### CONTENTS

Data Collection Procedures .....	D-2
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### ENUMERATION AND RESIDENCE RULES

In accordance with census practice dating back to the first United States census in 1790, each person was to be enumerated as an inhabitant of his or her "usual residence" in the 1990 census. Usual residence is the place where the person lives and sleeps most of the time or considers to be his or her usual residence. This place is not necessarily the same as the person's legal residence or voting residence. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics, although there might be appreciable differences for a few areas.

The implementation of this practice has resulted in the establishment of rules for certain categories of persons whose usual place of residence is not immediately apparent. Furthermore, this practice means that persons were not always counted as residents of the place where they happened to be staying on Census Day (April 1, 1990).

#### Enumeration Rules

Each person whose usual residence was in the United States was to be included in the census, without regard to the person's legal status or citizenship. In a departure from earlier censuses, foreign diplomatic personnel participated voluntarily in the census, regardless of their residence on or off the premises of an embassy. As in previous censuses, persons in the United States specifically excluded from the census were foreign travelers who had not established a residence.

Americans with a usual residence outside the United States were not enumerated in the 1990 census. United States military and Federal civilian employees, and their dependents overseas, are included in the population counts for States for purposes of Congressional apportionment, but are excluded from all other tabulations for States and their subdivisions. The counts of United States military and Federal civilian employees, and their dependents, were obtained from administrative records maintained by Federal departments and agencies. Other

Americans living overseas, such as employees of international agencies and private businesses and students, were not enumerated, nor were their counts obtained from administrative sources. On the other hand, Americans temporarily overseas were to be enumerated at their usual residence in the United States.

#### Residence Rules

Each person included in the census was to be counted at his or her usual residence—the place where he or she lives and sleeps most of the time or the place where the person considers to be his or her usual home. If a person had no usual residence, the person was to be counted where he or she was staying on April 1, 1990.

Persons temporarily away from their usual residence, whether in the United States or overseas, on a vacation or on a business trip, were counted at their usual residence. Persons who occupied more than one residence during the year were counted at the one they considered to be their usual residence. Persons who moved on or near Census Day were counted at the place they considered to be their usual residence.

**Persons in the Armed Forces**—Members of the Armed Forces were counted as residents of the area in which the installation was located, either on the installation or in the surrounding community. Family members of Armed Forces personnel were counted where they were living on Census Day (for example, with the Armed Forces person or at another location).

Each Navy ship not deployed to the 6th or 7th Fleet was attributed to the municipality that the Department of the Navy designated as its homeport. If the homeport included more than one municipality, ships berthed there on Census Day were assigned by the Bureau of the Census to the municipality in which the land immediately adjacent to the dock or pier was actually located. Ships attributed to the homeport, but not physically present and not deployed to the 6th or 7th Fleet, were assigned to the municipality named on the Department of the Navy's homeport list. These rules also apply to Coast Guard vessels.

Personnel assigned to each Navy and Coast Guard ship were given the opportunity to report a residence off the ship. Those who did report an off-ship residence in the communities surrounding the homeport were counted there; those who did not were counted as residents of

the ship. Personnel on Navy ships deployed to the 6th or 7th Fleet on Census Day were considered to be part of the overseas population.

**Persons on Maritime Ships**—Persons aboard maritime ships who reported an off-ship residence were counted at that residence. Those who did not were counted as residents of the ship, and were attributed as follows:

1. The port where the ship was docked on Census Day, if that port was in the United States or its territories.
2. The port of departure if the ship was at sea, provided the port was in the United States or its territories.
3. The port of destination in the United States or its territories, if the port of departure of a ship at sea was a foreign port.
4. The overseas population if the ship was docked at a foreign port or at sea between foreign ports. (These persons were not included in the overseas population for apportionment purposes.)

**Persons Away at School**—College students were counted as residents of the area in which they were living while attending college, as they have been since the 1950 census. Children in boarding schools below the college level were counted at their parental home.

**Persons in Institutions**—Persons under formally authorized, supervised care or custody, such as in Federal or State prisons; local jails; Federal detention centers; juvenile institutions; nursing, convalescent, and rest homes for the aged and dependent; or homes, schools, hospitals, or wards for the physically handicapped, mentally retarded, or mentally ill, were counted at these places.

**Persons Away From Their Usual Residence on Census Day**—Migrant agricultural workers who did not report a usual residence elsewhere were counted as residents of the place where they were on Census Day. Persons in worker camps who did not report a usual residence elsewhere were counted as residents of the camp where they were on Census Day.

In some parts of the country, natural disasters displaced significant numbers of households from their usual place of residence. If these persons reported a destroyed or damaged residence as their usual residence, they were counted at that location.

Persons away from their usual residence were counted by means of interviews with other members of their families, resident managers, or neighbors.

## DATA COLLECTION PROCEDURES

The 1990 census was conducted primarily through self-enumeration. The questionnaire packet included general information about the 1990 census and an

instruction guide explaining how to complete the questionnaire. Spanish-language questionnaires and instruction guides were available on request. Instruction guides also were available in 32 other languages.

## Enumeration of Housing Units

Each housing unit in the country received one of two versions of the census questionnaire:

1. A short-form questionnaire that contained a limited number of basic population and housing questions; these questions were asked of all persons and housing units and are often referred to as 100-percent questions.
2. A long-form questionnaire that contained the 100-percent items and a number of additional questions; a sampling procedure was used to determine those housing units that were to receive the long-form questionnaire.

Three sampling rates were employed. For slightly more than one-half of the country, one in every six housing units (about 17 percent) received the long-form or sample questionnaire. In functioning local governmental units (counties and incorporated places, and in some parts of the country, towns and townships) estimated to have fewer than 2,500 inhabitants, every other housing unit (50 percent) received the sample questionnaire in order to enhance the reliability of the sample data for these small areas. For census tracts and block numbering areas having more than 2,000 housing units in the Census Bureau's address files, one in every eight housing units (about 13 percent) received a sample questionnaire, providing reliable statistics for these areas while permitting the Census Bureau to stay within a limit of 17.7 million sample questionnaires, or a one-in-six sample, nationwide.

The mail-out/mail-back procedure was used mainly in cities, suburban areas, towns, and rural areas where mailing addresses consisted of a house number and street name. In these areas, the Census Bureau developed mailing lists that included about 88.4 million addresses. The questionnaires were delivered through the mail and respondents were to return them by mail. Census questionnaires were delivered 1 week before Census Day (April 1, 1990).

The update/leave/mail-back method was used mainly in densely populated rural areas where it was difficult to develop mailing lists because mailing addresses did not use house number and street name. The Census Bureau compiled lists of housing units in advance of the census. Enumerators delivered the questionnaires, asked respondents to return them by mail, and added housing units not on the mailing lists. This method was used mainly in the South and Midwest, and also included some high-rise, low-income urban areas. A variation of this method

was used in urban areas having large numbers of boarded-up buildings. About 11 million housing units were enumerated using this method.

The list/enumerate method (formerly called conventional or door-to-door enumeration) was used mainly in very remote and sparsely-settled areas. The United States Postal Service delivered unaddressed short-form questionnaires before Census Day. Starting a week before Census Day, enumerators canvassed these areas, checked that all housing units received a questionnaire, created a list of all housing units, completed long-form questionnaires, and picked up the completed short-form questionnaires. This method was used mainly in the West and Northeast to enumerate an estimated 6.5 million housing units.

## Followup

**Nonresponse Followup**—In areas where respondents were to mail back their questionnaires, an enumerator visited each address from which a questionnaire was not received.

**Coverage and EdR-Failure Followup**—In the mail-back areas, some households returned a questionnaire that did not meet specific quality standards because of incomplete or inconsistent information, or the respondent had indicated difficulty in deciding who was to be listed on the questionnaire. These households were contacted by telephone or by personal visit to obtain the missing information or to clarify who was to be enumerated in the household. In areas where an enumerator picked up the questionnaires, the enumerator checked the respondent-filled questionnaire for completeness and consistency.

## Special Enumeration Procedures

Special procedures and questionnaires were used for the enumeration of persons in group quarters, such as college dormitories, nursing homes, prisons, military barracks, and ships. The questionnaires (Individual Census Reports, Military Census Reports, and Shipboard Census Reports) included the 100-percent population questions but did not include any housing questions. In all group quarters, all persons were asked the basic population questions; in most group quarters, additional questions were asked of a sample (one-in-six) of persons.

## Shelter and Street Night (S-Night)

The Census Bureau collected data for various components of the homeless population at different stages in the 1990 census. "Shelter and Street Night" (S-Night) was a special census operation to count the population in four types of locations where homeless people are

found. On the evening of March 20, 1990, and during the early morning hours of March 21, 1990, enumerators counted persons in pre-identified locations:

1. Emergency shelters for the homeless population (public and private; permanent and temporary).
2. Shelters with temporary lodging for runaway youths.
3. Shelters for abused women and their children.
4. Open locations in streets or other places not intended for habitation.

Emergency shelters include all hotels and motels costing \$12 or less (excluding taxes) per night regardless of whether persons living there considered themselves to be homeless, hotels and motels (regardless of cost) used entirely to shelter homeless persons, and pre-identified rooms in hotels and motels used for homeless persons and families. Enumeration in shelters usually occurred from 6 p.m. to midnight; street enumeration, from 2 a.m. to 4 a.m.; abandoned and boarded-up buildings from 4 a.m. to 8 a.m.; and shelters for abused women, from 6 p.m. on March 20 to noon on March 21.

Other components, which some consider as part of the homeless population, were enumerated as part of regular census operations. These include persons doubled up with other families, as well as persons with no other usual home living in transient sites, such as commercial campgrounds, maternity homes for unwed mothers, and drug/alcohol abuse detoxification centers. In institutions, such as local jails and mental hospitals, the Census Bureau does not know who has a usual home elsewhere; therefore, even though some are literally homeless, these persons cannot be identified separately as a component of the homeless population.

There is no generally agreed-upon definition of "the homeless," and there are limitations in the census count that prevent obtaining a total count of the homeless population under any definition. As such, the Census Bureau does not have a definition and will not provide a total count of "the homeless." Rather, the Census Bureau will provide counts and characteristics of persons found at the time of the census in *selected* types of living arrangements. These selected components can be used as building blocks to construct a count of homeless persons appropriate to particular purposes as long as the data limitations are taken into account.

In preparation for "Shelter-and-Street-Night" enumeration, the regional census centers (RCC's) mailed a certified letter (Form D-33 (L)) to the highest elected official of each active functioning government of the United States (more than 39,000) requesting them to identify:

1. All shelters with sleeping facilities (permanent and temporary, such as church basements, armories, public buildings, and so forth, that could be open on March 20).

2. Hotels and motels used to house homeless persons and families.
3. A list of outdoor locations where homeless persons tend to be at night.
4. Places such as bus or train stations, subway stations, airports, hospital emergency rooms, and so forth, where homeless persons seek shelter at night.
5. The specific addresses of abandoned or boarded-up buildings where homeless persons were thought to stay at night.

The letter from the RCC's to the governmental units emphasized the importance of listing night-time congregating sites. The list of shelters was expanded using information from administrative records and informed local sources. The street sites were limited to the list provided by the jurisdictions. All governmental units were eligible for "Shelter and Street Night." For cities with 50,000 or more persons, the Census Bureau took additional steps to update the list of shelter and street locations if the local jurisdiction did not respond to the certified letter. Smaller cities and rural areas participated if the local jurisdiction provided the Census Bureau a list of shelters or open public places to visit or if shelters were identified through our inventory development, local knowledge update, or during the Special Place Prelist operation.

The Census Bureau encouraged persons familiar with homeless persons and the homeless themselves to apply as enumerators. This recruiting effort was particularly successful in larger cities.

For shelters, both long- and short-form Individual Census Reports (ICR's) were distributed. For street enumeration, only short-form ICR's were used. Persons in shelters and at street locations were asked the basic population questions. Additional questions about social and economic characteristics were asked of a sample of persons in shelters only.

Enumerators were instructed *not* to ask who was homeless; rather, they were told to count all persons (including children) staying overnight at the shelters, and everyone they saw on the street except the police, other persons in uniform, and persons engaged in employment or obvious money-making activities other than begging and panhandling.

At both shelter and street sites, persons found sleeping were not awakened to answer questions. Rather, the enumerator answered the sex and race questions by observation and estimated the person's age to the best of his or her ability. In shelters, administrative records and information from the shelter operator were used, when available, for persons who were already asleep.

Less than 1 percent of shelters refused to participate in the census count at first. By the end of the census period, most of those eventually cooperated and the

number of refusals had been reduced to a few. For the final refusals, head counts and population characteristics were obtained by enumerators standing outside such shelters and counting people as they left in the morning.

The "street" count was restricted to persons who were visible when the enumerator came to the open, public locations that had been identified by local jurisdictions. Homeless persons who were well hidden, moving about, or in locations other than those identified by the local governments were likely missed. The number missed will never be known and there is no basis to make an estimate of the number missed from census data. The count of persons in open, public places was affected by many factors, including the extra efforts made to encourage people to go to shelters for "Shelter and Street Night," the weather (which was unusually cold in many parts of the country), the presence of the media, and distrust of the census. Expectations of the number of homeless persons on the street cannot be based on the number seen during the day because the night-time situation is normally very different as more homeless persons are in shelters or very well hidden.

For both "Shelter-and-Street-Night" locations, the Census Bureau assumed that the usual home of those enumerated was in the block where they were found (shelter or street).

The "Shelter-and-Street-Night" operation replaced and expanded the 1980 Mission Night (M-Night) and Casual Count operations. These two operations were aimed at counting the population who reported having no usual residence. M-Night was conducted a week after Census Day, in April 1980. Enumerators visited hotels, motels, and similar places costing \$4 or less each night; missions, flophouses, local jails and similar places at which the average length of stay was 30 days or less; and nonshelter locations, such as bus depots, train stations, and all night movie theaters. Questions were asked of everyone, regardless of age. Enumerators conducted M-Night up to midnight on April 6, 1980, and returned the next morning to collect any forms completed after midnight.

The Casual Count operation was conducted in May 1980 at additional nonshelter locations, such as street corners, pool halls, welfare and employment offices. This operation lasted for approximately 2 weeks. Casual Count was conducted during the day only in selected large central cities. Only persons who appeared to be at least 15 years of age were asked if they had been previously enumerated. Casual Count was actually a coverage-improvement operation. It was not specifically an operation to count homeless persons living in the streets. Persons were excluded if they said they had a usual home outside the city because it was not cost effective to check through individual questionnaires in another city to try to find the person.

## PROCESSING PROCEDURES

Respondents returned many census questionnaires by mail to 1 of over 344 census district offices or to one of six processing offices. In these offices, the questionnaires were "checked in" and edited for completeness and consistency of the responses. After this initial processing had been performed, all questionnaires were sent to the processing offices.

In the processing offices, the household questionnaires were microfilmed and processed by the Film Optical Sensing Device for Input to Computers (FOSDIC). For most items on the questionnaire, the information supplied by the respondent was indicated by filling circles in predesignated positions. FOSDIC electronically "read" these filled circles from the microfilm copy of the questionnaire and transferred the information to computer tape. The computer tape did not include individual names, addresses, or handwritten responses.

The data processing was performed in several stages. All questionnaires were microfilmed, "read" by FOSDIC, and transferred to computer disk. Selected written

entries in the race question on both the short and long forms were keyed from the microfilm and coded using the data base developed from the 1980 census and subsequent content and operational tests. Keying of other written entries on the long forms occurred in the seven processing offices.

The information (for example, income dollar amounts or homeowner shelter costs) on these keyed files was merged with the FOSDIC data or processed further through one of three automated coding programs. The codes for industry, occupation, place-of-birth, migration, place-of-work, ancestry, language, relationship, race, and Hispanic origin were merged with the FOSDIC data for editing, weighting, and tabulating operations at Census Bureau headquarters. All responses to the questions on Individual Census Reports (ICR's), Military Census Reports (MCR's), and Shipboard Census Reports (SCR's) were keyed, not processed by microfilm or FOSDIC.



## APPENDIX E.

### Facsimiles of Respondent Instructions and Questionnaire Pages

# Your Guide for the 1990 U.S. Census Form

This guide gives helpful information on filling out your census form. If you need more help, call the local U.S. census office. **The telephone number is on the cover of the questionnaire.** After you have filled out your form, please return it in the **envelope** we have provided.

On the inside	Page
<b>How</b> to fill out your census form	<b>2</b>
<b>Example</b>	<b>2</b>
<b>Your</b> answers are confidential	<b>2</b>
<b>Instructions</b> for the census questions	<b>3-11</b>
<b>What</b> the census is about	<b>12</b>
<b>Why</b> the census asks certain questions	<b>12</b>

CENSUS '90

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS



D-4



## How to Fill Out Your Census Form

Please use a black lead pencil only. Black lead pencil is better to use than ballpoint or other pens. Most questions ask you to fill in the circle, or to print the information. See Example below.

Make sure you print answers for everyone in this household. If someone in the household, such as a roomer or boarder, does not want to give you all the information for the form, print at least the person's name and answer questions 2 and 3. A census taker will call to get the other information directly from the person.



There may be a question you cannot answer exactly. For example, you might not know the age of an elderly person or the price for which your house would sell. Ask someone else in your household; if no one knows, give your best estimate.

Instructions for individual questions begin on page 3 of this guide. They will help you to understand the questions and answer them correctly.

If you have a question about filling out the census form or need assistance, call the local U.S. census office. The telephone number is given on the cover of the questionnaire.

If you do not mail back your census form, a census taker will be sent out to assist you. But it saves time and your taxpayer dollars if you fill out the form yourself and mail it back.

### Example

a. Age	b. Year of birth	a. Age	b. Year of birth
 41	1949	 09	1981
<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2	<input type="radio"/> 8 <input type="radio"/> 9 <input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2	<input type="radio"/> 8 <input type="radio"/> 9 <input type="radio"/> 0 <input type="radio"/> 1
<input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
<input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8	<input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7	<input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8	<input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7
<input type="radio"/> 9 <input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 8 <input type="radio"/> 9 <input type="radio"/> 0	<input type="radio"/> 9 <input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 8 <input type="radio"/> 9 <input type="radio"/> 0

## Your Answers Are Confidential

The law authorizing the census (Title 13, U.S. Code) also provides that your answers are confidential. No one except census workers may see your completed form and they can be fined and/or imprisoned for any disclosure of your answers. Only after 72 years can your individual census form become available to other government agencies (whether federal, state, county, or local). Until then, no other person or business can see your individual report.

The same law that protects the confidentiality of your answers requires that you provide the information asked in this census to the best of your knowledge.

Information collected from the decennial census is used for a variety of statistical purposes. Census information is used to find out where funding is most needed for schools, health centers, highways, and other services. Census results are used by members of public and private groups—including community organizations—and by businesses and industries, as well as by agencies at all levels of government.

## Instructions for Questions 1a through 7

**1a.** List everyone who lives at this address in question 1a. If you are not sure if you should list a person, see the rules on page 1 of the census form. If you are still not sure, answer as best you can and fill in "Yes" for question H1a or H1b, as appropriate.

If there are more than seven people in your household, please list all the persons in question 1a, complete the form for seven people, and mail it back in the enclosed envelope. A census taker will call to obtain the information for the additional persons.

**b.** If everyone listed in question 1a usually lives at another address(es), print the address(es) in 1b.

**2.** Fill one circle to show how each person is related to the person in column 1.

If **Other relative** of the person in column 1, print the exact relationship such as son-in-law, daughter-in-law, grandparent, nephew, niece, mother-in-law, father-in-law, cousin, and so on.

If the **Stepson/stepdaughter** of the person in column 1 also has been legally adopted by the person in column 1, mark **Stepson/stepdaughter** but do not mark **Natural-born or adopted son/daughter**. In other words, **Stepson/stepdaughter** takes precedence over **Adopted son/daughter**.

**4.** Fill ONE circle for the race each person considers himself/herself to be.

If you fill the **Indian (Amer.)** circle, print the name of the tribe or tribes in which the person is enrolled. If the person is not enrolled in a tribe, print the name of the principal tribe(s).

If you fill the **Other API** circle (under **Asian or Pacific Islander (API)**), only print the name of the group to which the person belongs. For example, the **Other API** category includes persons who identify as Burmese, Fijian, Hmong, Indonesian, Laotian, Bangladeshi, Pakistani, Tongan, Thai, Cambodian, Sri Lankan, and so on.

If you fill the **Other race** circle, be sure to print the name of the race.

If the person considers himself/herself to be **White**, **Black** or **Negro**, **Eskimo** or **Aleut**, fill one circle only. Please do not print the race to the boxes.

The **Black or Negro** category also includes persons who identify as African American, Afro-American, Haitian, Jamaican, West Indian, Nigerian, and so on.

All persons, regardless of citizenship status, should answer this question.

**5.** Print age at last birthday in the space provided (print "00" for babies less than 1 year old). Fill in the matching circle below each box. Also, print year of birth in the space provided. Then fill in the matching circle below each box. For an illustration of how to complete question 5, see the Example on page 2 of this guide.

**6.** If the person's only marriage was annulled, mark **Never married**.

**7.** A person is of Spanish/Hispanic origin if the person's origin (ancestry) is Mexican, Mexican-Am., Chicano, Puerto Rican, Cuban, Argentinean, Colombian, Costa Rican, Dominican, Ecuadorian, Guatemalan, Honduran, Nicaraguan, Panamanian, Salvadoran, from other Spanish-speaking countries of the Caribbean or Central or South America, or from Spain.

If you fill the **Yes, other Spanish/Hispanic** circle, print one group.

A person who is not of Spanish/Hispanic origin should answer this question by filling the **No (not Spanish/Hispanic)** circle. Note that the term "**Mexican-Am.**" refers only to persons of Mexican origin or ancestry.

All persons, regardless of citizenship status, should answer this question.

## Instructions for Question H1a through H1b

**H1a.** Refer to the list of persons you entered in question 1a on page 1. If you left anyone out of your list because you were not sure if the person(s) should be listed, answer question H1a as **Yes**. Then enter the name(s) and reason(s) why you did not list the person(s) on the lines provided. Otherwise, answer question H1a as **No**.

**b.** If you included anyone on your list even though you were not sure that you should list the person(s), answer question H1b as **Yes**. Then enter the name(s) and reason(s) why you listed the person(s) on the lines provided. Otherwise, answer question H1b as **No**.

## Instructions for Questions H2 through H7b

### H2. Fill only one circle.

Count all occupied and vacant apartments in the house or building. Do not count stores or office space.

*Detached* means there is open space on all sides, or the house is joined only to a shed or garage. *Attached* means that the house is joined to another house or building by at least one wall that goes from ground to roof. An example of a *one-family house attached to one or more houses* is a house in a row of houses attached to one another.

A mobile home or trailer that has had one or more rooms added or built onto it should be counted as a *one-family detached house*; a porch or shed is not considered a room.

### H3. Count only whole rooms in your house, apartment, or mobile home used for living purposes, such as living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, family rooms, etc. Do not count bathrooms, kitchenettes, strip or pullman kitchens, utility rooms, foyers, halls, half-rooms, porches, balconies, unfinished attics, unfinished basements, or other unfinished space used for storage.

### H4. Housing is owned if the owner or co-owner lives in it. Mark **Owned by you or someone in this household with a mortgage or loan** if the house, apartment, or mobile home is mortgaged or there is a contract to purchase. Mark **Owned by you or someone in this household free and clear (without a mortgage)** if there is no mortgage or other debt. If the house, apartment, or mobile home is owned but the land is rented, mark this question to show the status of the house, apartment, or mobile home.

Mark **Rented for cash rent** if any money rent is paid, even if the rent is paid by persons who are not members of your household, or by a federal, state, or local government agency.

Mark **Occupied without payment of cash rent** if the unit is not owned or being bought by the occupants and if money rent is not paid or contracted. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. A house or apartment may be provided as part of wages or salary. Examples are: caretaker's or janitor's house or apartment; parsonage; tenant farmer or sharecropper houses for which the occupants do not pay cash rent; or military housing.

### H5a. Answer H5a and H5b if you live in a one-family house or a mobile home; include only land that you own or rent.

### b. A business is easily recognized from the outside; for example, a grocery store or barber shop. A medical office is a doctor's or dentist's office regularly visited by patients.

### H6. If this is a house, include the value of the house, the land it is on, and any other structures on the same property. If the house is owned but the land is rented, estimate the combined value of the house and the land. If this is a condominium unit, estimate the value for your house or apartment including your share of the common elements. If this is a mobile home, include the value of the mobile home and the value of the land. If you rent the land, estimate the value of the rented land and add it to the value of the mobile home.

### H7a. Report the rent agreed to or contracted for, even if the rent for your house, apartment, or mobile home is unpaid or paid by someone else.

If rent is paid:	Multiply rent by:	If rent is paid:	Divide rent by:
By the day . . . . .	30	4 times a year . . . . .	3
By the week . . . . .	4	2 times a year . . . . .	6
Every other week . . . . .	2	Once a year . . . . .	12

### b. Answer **Yes** if meals are included in the monthly rent payment, or you must contract for meals or a meal plan in order to live in this building.

## Instructions for Questions H8 through H19b

### H8. The person listed in column 1 refers to the person listed in the first column on page 2. This person should be the household member (or one of the members) in whose name the house, apartment, or mobile home is owned, being bought, or rented. If there is no such person, any adult household member can be the person in column 1. Mark when this person last moved into this house, apartment, or mobile home.

### H9. Include all rooms intended to be used as bedrooms in this house, apartment, or mobile home, even if they are currently being used for other purposes.

### H10. Mark **Yes, have all three facilities** if you have all the facilities mentioned; all facilities must be in your house, apartment, or mobile home, but not necessarily in the same room. Consider that you have hot water even if you have it only part of the time. Mark **No** if any of the three facilities is not present.

### H11. The kitchen sink, stove, and refrigerator must be located in the building but do not have to be in the same room. Portable cooking equipment is not considered as a range or cookstove.

### H12. Answer **Yes** only if the telephone is located in your house, apartment, or mobile home.

### H13. Count company cars (including police cars and taxicabs) and company trucks of one-ton capacity or less that are regularly kept at home and used by household members for nonbusiness purposes. Do not count cars or trucks permanently out of working order.

### H14. Fill the circle for the fuel used most to heat your house, apartment, or mobile home. In buildings containing more than one apartment you may obtain this information from the owner, manager, or janitor.

**Solar energy** is provided by a system that collects, stores, and distributes heat from the sun. **Other fuel** includes any fuel not separately listed; for example, purchased steam, fuel briquettes, waste material, etc.

### H15. If a well provides water for five or more houses, apartments, or mobile homes, mark **A public system**. If a well provides water for four or fewer houses, apartments, or mobile homes, fill one of the circles for **Individual well**.

**Drilled wells**, or small diameter wells, are usually less than 1½ feet in diameter. **Dug wells** are generally hand dug and are larger than 1½ feet wide.

### H16. A public sewer may be operated by a government body or private organization. A **septic tank or cesspool** is an underground tank or pit used for disposal of sewage.

### H17. Fill the circle corresponding to the period in which the original construction was completed, not the time of any later remodeling, additions, or conversions. In buildings containing more than one apartment, the owner, manager, or janitor may be of help in determining when the building was built.

If you live in a houseboat or a trailer or mobile home, fill the circle corresponding to the model year in which it was manufactured.

If you do not know the period when the building was first constructed, fill the circle for **Don't know**.

### H18. A **condominium** is a type of ownership in which the apartments, houses, or mobile homes in a building or development are individually owned, but the common areas, such as lobbies, halls, etc., are jointly owned. Cooperative occupants should mark **No**.

### H19a. Answer H19a and H19b if you live in a one-family house or mobile home.

### b. This property is the acreage on which the house is located; it includes adjoining land you rent for your use. Report sales made in 1989 from this property by you or previous occupants.

## Instructions for Questions H20 through H26

**H20.** If your house or apartment is rented, enter the costs for utilities and fuels only if you pay for them in addition to the rent entered in H7a.

If you live in a condominium, enter the costs for utilities and fuels only if you pay for them in addition to your condominium fee.

If your fuel and utility costs are already included in your rent or condominium fee, fill the included in rent or in condominium fee circle. Do not enter any dollar amounts.

The amounts to be reported should be the total amount for the past 12 months. Estimate as closely as possible when exact costs are not known. If you have lived in this house or apartment less than 1 year, estimate the yearly cost.

Report amounts even if your bills are unpaid or paid by someone else. If the bills include utilities or fuel used also by another apartment or a business establishment, estimate the amounts for your own house or apartment. If gas and electricity are billed together, enter the combined amount on the electricity line and bracket [ ] the two utilities.

**H21.** Report taxes for all taxing jurisdictions (city or town, county, state, school district, etc.) even if they are included in your mortgage payment, not yet paid or paid by someone else, or are delinquent. Do not include taxes paid due from previous years.

**H22.** When premiums are paid on other than a yearly basis, convert to a yearly basis. Enter the yearly amount even if no payment was made during the past 12 months.

**H23a.** The word mortgage is used as a general term to indicate all types of loans that are secured by real estate.

**b.** Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a to change it to a monthly amount.

Include payments on first mortgages and contracts to purchase only. Payments for second or junior mortgages and home equity loans should be reported in H24b.

**H24a.** A second or junior mortgage or home equity loan is secured by real estate.

**b.** Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see instructions for H7a and change it to a monthly amount. Include payments on all second or junior mortgages or home equity loans.

**H25.** A condominium fee is normally assessed by the condominium owners' association for the purpose of improving and maintaining the common areas. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a on how to change it to a monthly amount.

**H26.** Report amount even if your bills are unpaid or paid by someone else. Include payments for personal property taxes, land or site rent, registration fees and license fees. Do not include real estate taxes already reported in H21. The amount to be reported should be the total amount for an entire 12-month billing period even if made in two or more installments. Estimate as closely as possible when exact costs are not known.

## Instructions for Question 8

**8.** For persons born in the United States:

Print the name of the State in which this person was born. If the person was born in Washington, D.C., print District of Columbia. If the person was born in a U.S. territory or commonwealth, print Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Mariana.

For persons born outside the United States:

Print the name of the foreign country or area where the person was born. Use current boundaries, not boundaries at the time of the person's birth. Specify whether Northern Ireland or the Republic of Ireland (Ireland); East or West Germany; North or South Korea; England, Scotland, or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies).

## Instructions for Questions 9 through 13

**9.** A person should fill the Yes, U.S. citizen by naturalization circle only if he/she has completed the naturalization process and is now a United States citizen. If the person was born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Mariana, he/she should fill the Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Mariana circle. If the person was born outside the United States (or at sea) and has at least one American parent, he/she should fill the Yes, born abroad of American parent or parents circle.

**10.** If the person has entered the United States (that is, the 50 states and the District of Columbia) more than once, fill the circle for the latest year he/she came to stay.

**11.** Do not include enrollment in a trade or business school, company training, or tutoring unless the course would be accepted for credit at a regular elementary school, high school, or college.

A public school is any school or college that is controlled and supported primarily by a local, county, State, or Federal Government. Schools are private if supported and controlled primarily by religious organizations or other private groups.

**12.** Mark the category for the highest grade or level of schooling the person has successfully completed or the highest degree the person received. If the person is enrolled in school, mark the category containing the highest grade completed (the grade previous to the grade in which enrolled). Schooling completed in foreign or ungraded schools should be reported as the equivalent level of schooling in the regular American school system.

Persons who completed high school by passing an equivalency test, such as the General Educational Development (GED) examination, and did not attend college, should fill the circle for high school graduate.

Do not include vocational certificates or diplomas from vocational, trade, or business schools or colleges unless they were college level associate degrees or higher.

Some examples of professional school degrees include medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology. Do not include barber school, cosmetology, or other training for a specific trade.

Do not include honorary degrees awarded by colleges and universities to individuals for their accomplishments. Include only "earned" degrees.

**13.** Print the ancestry group. Ancestry refers to the person's ethnic origin or descent, "roots," or heritage. Ancestry also may refer to the country of birth of the person or the person's parents or ancestors before their arrival in the United States. All persons, regardless of citizenship status, should answer this question.

Persons who have more than one origin and cannot identify with a single ancestry group may report two ancestry groups (for example, German-Irish).

Be specific. For example, print whether West Indian, Asian Indian, or American Indian. West Indian includes persons whose ancestors came from Jamaica, Trinidad, Haiti, etc. Distinguish Cape Verdean from Portuguese; French Canadian from Canadian; and Dominican Republic from Dorenicia Island.

A religious group should not be reported as a person's ancestry.

## Instructions for Questions 14a through 19

- 14a.** Mark **Yes** if this person lived in this same house or apartment on April 1, 1985, even if he/she moved away and came back since then. Mark **No** if this person lived in the same building but in a different apartment (or in the same mobile home or trailer but on a different lot or trailer site).

- b.** If this person lived in a different house or apartment on April 1, 1985, give the location of this person's usual home at that time.

### Part (1)

If the person lived in the United States on April 1, 1985, print the name of the State (or District of Columbia) where he or she lived. Continue with parts (2) through (4).

If the person lived in a U.S. territory or commonwealth, print the name of the territory or commonwealth, such as Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Mariana. Then go to question 15a.

If the person lived outside the United States, print the name of the foreign country or area where he or she lived. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; England, Scotland or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies). Then go to question 15a.

### Part (2)

If the person lived in Louisiana, print the parish name. If the person lived in Alaska, print the borough name. If the person lived in New York City and the county name is not known, print the borough name. If the person lived in an independent city (not in any county) or in Washington, D.C., leave blank and enter the city name in part (3).

### Part (3)

If the person lived in New England, print the name of the town rather than the village name, unless the name of the town is not known. If the person lived outside the limits or boundaries of any city or town, print the name of the post office or the nearest town and mark **No**, lived outside the city/town limits in part (4).

### Part (4)

Mark **Yes** if the location is now inside the city/town limits even if it was not inside the limits on April 1, 1985; that is, if the area was annexed by the city/town since that time.

- 15.** Mark **Yes** if the person sometimes or always speaks a language other than English at home.

Do not mark **Yes** for a language spoken only at school or if speaking is limited to a few expressions or slang.

Print the name of the language spoken at home. If this person speaks more than one non-English language and cannot determine which is spoken more often, report the first language the person learned to speak.

- 17a.** For a person with service in the National Guard or a military reserve unit, fill one of the two **Yes**, active duty circles if and only if the person has ever been called up for active duty other than training; otherwise, mark **Yes**, service in Reserve or National Guard only. For a person whose only service was as a civilian employee or volunteer for the Red Cross, USO, Public Health Service, or War or Defense Department, mark **No**. Count World War II Merchant Marine Seaman service as active duty; do not count other Merchant Marine service as active duty.

- 18.** Mark **Yes** to part (a) if a health condition substantially limits this person in his or her choice of occupation or if the condition limits the amount of work that can be accomplished in a given period of time. Mark **Yes** to part (b) if the health condition prevents this person from holding any significant employment.

- 19.** Consider a person to have difficulty with these activities if any of the following situations apply: (1) it takes extra time or extra effort for the person to perform one or more of the activities, (2) there are times when the person cannot perform one or more of the activities, or (3) the person is completely unable to perform one or more of the activities.

## Instructions for Questions 20 through 23b

- 20.** Count all children born alive, including any who have died (even shortly after birth) or who no longer live with you. Do not include miscarriages or stillborn children or any adopted, foster, or stepchildren.

### 21a. Count as work — Mark **Yes**:

- Work for someone else for wages, salary, piece rate, commission, tips, or payments "in kind" (for example, food, lodging received as payment for work performed).
- Work in own business, professional practice, or farm.
- Any work in a family business or farm, paid or not.
- Any part-time work including babysitting, paper routes, etc.
- Active duty in Armed Forces.

Do not count as work — Mark **No**:

- Housework or yard work at home.
- Unpaid volunteer work.
- School work.
- Work done as a resident of an institution.

- 22a.** Include the street type (for example, St., Road, Ave.) and the street direction (if a direction such as "North" is part of the address). For example, print 1239 N. Main St. or 1239 Main St., N.W. not just 1239 Main.

If the only known address is a post office box, give a description of the work location. For example, print the name of the building or shopping center where the person works, the nearest intersection, the nearest street where the workplace is located, etc. DO NOT GIVE A POST OFFICE BOX NUMBER.

If the person worked at a military installation or military base that has no street address, report the name of the military installation or base.

If the person worked at several locations, but reported to the same location each day to begin work, print the address of the location where he or she reported. If the person did not report to the same location each day to begin work, print the address of the location where he or she worked most last week.

If the person's employer operates in more than one location (such as a grocery store chain or public school system), print the exact address of the location or branch where the person worked. If the exact address of a school is not known, print the name of the school.

If the person worked on a college or university campus and the exact address of the workplace is not known, print the name of the building where he or she worked.

- d.** If the person worked in New York City and the county is not known, print the name of the borough where the person worked.

If the person worked in Louisiana, print the name of the parish where the person worked.

If the person worked in Alaska, print the name of the borough where the person worked.

- e.** If the person worked in a foreign country or Puerto Rico, Guam, etc., print the name of the country in 22a and leave the other parts of question 22 blank.

- 23a.** If the person usually used more than one type of transportation to get to work (for example, rode the bus and transferred to the subway), fill the circle of the one method of transportation that he/she used for most of the distance during the trip.

- b.** If the person was driven to work by someone who then drove back home or to a nonwork destination, fill the circle for **Drove alone**.

DO NOT include persons who rode to school or some other nonwork destination in the count of persons who rode in the vehicle.

## Instructions for Questions 24a through 30

- 24a.** Give the time of day the person usually left home to go to work. DO NOT give the time that the person usually began his or her work.  
If the person usually left home to go to work sometime between 12:00 o'clock midnight and 12:00 o'clock noon, fill the a.m. circle.  
If the person usually left home to go to work sometime between 12:00 o'clock noon and 12:00 o'clock midnight, fill the p.m. circle.
- b.** Travel time is from door to door. Include time taken waiting for public transportation or picking up passengers in a carpool.
- 25.** If the person works only during certain seasons or on a day-by-day basis when work is available, mark No.
- 26a.** Mark Yes if the person tried to get a job or to start a business or professional practice at any time in the last 4 weeks; for example, registered at an employment office, went to a job interview, placed or answered ads, or did anything toward starting a business or professional practice.
- b.** Mark No, already has a job if the person was on layoff or was expecting to report to a job within 30 days.  
Mark No, temporarily ill if the person expects to be able to work within 30 days.  
Mark No, other reasons if the person could not have taken a job because he or she was going to school, taking care of children, etc.
- 27.** Look at the instructions for question 21a to see what to count as work. Mark Never worked if the person: (1) never worked at any kind of job or business, either full or part time, (2) never did any work, with or without pay, in a family business or farm, and (3) never served in the Armed Forces.
- 28a.** If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that had no company name, print the name of the individual worked for. If the person worked in his/her own business, print "self-employed."
- b.** Print two or more words to tell what the business, industry, or individual employer named in 28a did. If there is more than one activity, describe only the major activity at the place where the person worked. Enter what is made, what is sold, or what service is given.  
Some examples of what to enter:
- |   |                   |
|---|-------------------|
| Enter a description like the following -- | Do not enter --   |
| Metal furniture manufacturing             | Furniture company |
| Retail grocery store                      | Grocery store     |
| Petroleum refining                        | Oil company       |
| Cattle ranch                              | Ranch             |
- 29.** Print two or more words to describe the kind of work the person did. If the person was a trainee, apprentice, or helper, include that in the description.  
Some examples of what to enter:
- |   |                 |
|---|-----------------|
| Enter a description like the following -- | Do not enter -- |
| Production clerk                          | Clerk           |
| Carpenter's helper                        | Helper          |
| Auto engine mechanic                      | Mechanic        |
| Registered nurse                          | Nurse           |
- 30.** Mark **Employee of a PRIVATE NOT-FOR-PROFIT . . . organization** if the person worked for a cooperative, credit union, mutual insurance company, or similar organization.  
Employees of foreign governments, the United Nations, and other international organizations should mark **PRIVATE NOT-FOR-PROFIT . . . organization**.  
For persons who worked at a public school, college or university, mark the appropriate government category: for example, mark **State GOVERNMENT employee** for a state university, or mark **Local GOVERNMENT employee** for a county-run community college or a city-run public school.

## Instructions for Questions 31a through 32h

- 31a.** Look at the instructions for question 21a to see what to count as work.
- b.** Count every week in which the person did any work at all, even for an hour.
- 32.** Fill the Yes or No circle for each part and enter the amount received during 1989.  
If income from any source was received jointly by household members, report, if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and fill the No circle for the other person.
- a.** Include wages and salaries from all jobs before deductions. Be sure to include any tips, commissions, or bonuses. Owners of incorporated businesses should enter their salary here. Military personnel should include basic pay plus cash housing and/or subsistence allowance, flight pay, uniform allowances, reenlistment bonuses, etc.
- b.** Include **NONFARM** profit (or loss) from self-employment in sole proprietorships and partnerships. Exclude profit (or loss) of incorporated businesses you own.
- c.** Include **FARM** profit (or loss) from self-employment in sole proprietorships and partnerships. Exclude profit (or loss) of incorporated farm businesses you own. Also exclude amounts from land rented for cash but include amounts from land rented for shares.
- d.** Include interest received or credited to checking and savings accounts, money market funds, certificates of deposit (CDs), IRAs, KEOGHs, and government bonds.  
Include dividends received, credited, or reinvested from ownership of stocks or mutual funds.  
Include profit (or loss) from royalties and the rental of land, buildings or real estate, or from roomers or boarders. Income received by self-employed persons whose primary source of income is from renting property or from royalties should be included in questions 32b or 32c above. Include regular payments from an estate or trust fund.
- e.** Include Social Security (and/or Railroad Retirement) payments to retired persons, to dependents of deceased insured workers, and to disabled workers before Medicare deductions.
- f.** Include Supplemental Security Income received by aged, blind, or disabled persons, Aid to Families with Dependent Children, or income from other government programs such as general or emergency assistance. Do not include assistance received from private charities. Exclude assistance to pay for heating (cooling) costs.
- g.** Include retirement, disability, or survivor benefits received from companies and unions; Federal, State, and local governments, and the U.S. military. Include regular income from annuities and IRA or KEOGH retirement plans.
- h.** Include Veterans' (VA) disability compensation and educational assistance payments (VEAP), unemployment compensation, child support or alimony, and all other regular payments such as Armed Forces transfer payments; assistance from private charities; regular contributions from persons not living in the household, etc.  
Do not include the following as income in any item:
- Refunds or rebates of any kind
  - Withdrawals from savings of any kind
  - Capital gains or losses from the sale of homes, shares of stock, etc.
  - Inheritances or insurance settlements
  - Any type of loan
  - Pay in-kind such as food, free rent, etc.

## **What the Census Is About — Some Questions and Answers**

### **Why are we taking a census?**

The most important reason for taking a decennial census is to determine how many representatives each state will have in Congress.

### **What does the Census Bureau do with the information you provide?**

The individual information collected in the census is grouped together into statistical totals. Information such as the number of persons in a given area, their ages, educational background, the characteristics of their housing, etc., enable government, business, and industry to plan more effectively.

### **How long have we been taking the census?**

The first census was taken in 1790 in accordance with the requirement in the first article of the constitution. A census has been taken every 10 years since. The 1990 Decennial Census marks the 200th anniversary of the census.

### **How are you being counted?**

Census forms are delivered to all households a few days before census day. Households are requested to fill out the form and mail it back to the census office.

## **Why the Census Asks Certain Questions**

### **Here are a few reasons for asking some of the questions.**

*It is as important to get information about people and their houses as it is to count them.*

#### **Name?**

Names help make sure that everyone in a household is counted, but that no one is counted twice.

#### **Value or rent?**

Government and planning agencies use answers to these questions in combination with other information to develop housing programs to meet the needs of people at different economic levels.

#### **Complete plumbing?**

This question gives information on the quality of housing. The data are used with other statistics to show how the "level of living" compares in various areas and how it has changed over time.

#### **Place of birth?**

This question provides information used to study long-term trends as to where people move and to study migration patterns and differences in growth patterns.

#### **Job?**

Answers to the questions about the jobs people hold provide information on the extent and types of employment in different areas of the country. From this information, training programs can be developed and the need for new industries can be determined.

#### **Income?**

Income, more than anything else, determines how families or persons live. Income information makes it possible to compare the economic levels of different areas.

CENSUS '90

# OFFICIAL 1990 U.S. CENSUS FORM



Thank you for taking time to complete and return this census questionnaire. It's important to you, your community, and the Nation.

**The law requires answers but guarantees privacy.**

By law (Title 13, U.S. Code), you're required to answer the census questions to the best of your knowledge. However, the same law guarantees that your census form remains confidential. For 72 years—or until the year 2062—only Census Bureau employees can see your form. No one else—no other government body, no police department, no court system or welfare agency—is permitted to see this confidential information under any circumstances.

**How to get started—and get help.**

Start by listing on the next page the names of all the people who live in your home. Please answer all questions with a black lead pencil. You'll find detailed instructions for answering the census in the enclosed guide. If you need additional help, call the toll-free telephone number to the left, near your address.

**Please answer and return your form promptly.**

Complete your form and return it by April 1, 1990 in the postage-paid envelope provided. Avoid the inconvenience of having a census taker visit your home.

Again, thank you for answering the 1990 Census.  
**Remember: Return the completed form by April 1, 1990.**

**Para personas de habla hispana -**  
(For Spanish-speaking persons)

Si usted desea un cuestionario del censo en español, llame sin cargo alguno al siguiente número: **1-800-CUENTAN**  
(o sea 1-800-283-6826)

U.S. Department of Commerce  
BUREAU OF THE CENSUS  
FORM D-2

OMB No. 0607-0628  
Approval Expires 07/31/91

The 1990 census must count every person at his or her "usual residence." This means the place where the person lives and sleeps most of the time.

**1a. List on the numbered lines below the name of each person living here on Sunday, April 1, including all persons staying here who have no other home. IF EVERYONE at this address is staying here temporarily and usually lives somewhere else, follow the instructions given in question 1b below.**

### Include

- Everyone who usually lives here such as family members, housemates and roommates, foster children, roomers, boarders, and live-in employees
- Persons who are temporarily away on a business trip, on vacation, or in a general hospital
- College students who stay here while attending college
- Persons in the Armed Forces who live here
- Newborn babies still in the hospital
- Children in boarding schools below the college level
- Persons who stay here most of the week while working even if they have a home somewhere else
- Persons with no other home who are staying here on April 1

### Do NOT include

- Persons who usually live somewhere else
- Persons who are away in an institution such as a prison, mental hospital, or a nursing home
- College students who live somewhere else while attending college
- Persons in the Armed Forces who live somewhere else
- Persons who stay somewhere else most of the week while working

Print last name, first name, and middle initial for each person. Begin on line 1 with the household member (or one of the household members) in whose name this house or apartment is owned, being bought, or rented. If there is no such person, start on line 1 with any adult household member.

LAST	FIRST	INITIAL	LAST	FIRST	INITIAL
1			7		
2			8		
3			9		
4			10		
5			11		
6			12		

**1b. IF EVERYONE is staying here only temporarily and usually lives somewhere else, list the name of each person on the numbered lines above, fill this circle ☐ and print their usual address below. DO NOT PRINT THE ADDRESS LISTED ON THE FRONT COVER.**

House number	Street or road/rural route and box number	Apartment number
City	State	ZIP Code
County or foreign country	Names of nearest intersecting streets or roads	

**NOW PLEASE OPEN THE FLAP TO PAGE 2 AND ANSWER ALL QUESTIONS FOR THE FIRST 7 PEOPLE LISTED. USE A BLACK LEAD PENCIL ONLY.**



Please fill one column → for each person listed in Question 1a on page 1.	PERSON 1		PERSON 2	
	Last name  First name	Middle initial	Last name  First name	Middle initial
<b>2. How is this person related to PERSON 1?</b>  Fill ONE circle for each person.  If Other relative of person in column 1, fill circle and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.	START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented.  If there is no such person, start in this column with any adult household member.		If a RELATIVE of Person 1: <input type="radio"/> Husband/wife <input type="radio"/> Brother/sister <input type="radio"/> Natural-born or adopted son/daughter <input type="radio"/> Father/mother <input type="radio"/> Stepson/stepdaughter <input type="radio"/> Grandchild <input type="radio"/> Other relative If NOT RELATED to Person 1: <input type="radio"/> Roomer, boarder, or foster child <input type="radio"/> Unmarried partner <input type="radio"/> Housemate, roommate <input type="radio"/> Other nonrelative	
<b>3. Sex</b> Fill ONE circle for each person.	<input type="radio"/> Male <input type="radio"/> Female		<input type="radio"/> Male <input type="radio"/> Female	
<b>4. Race</b> Fill ONE circle for the race that the person considers himself/herself to be.  If Indian (Amer.), print the name of the enrolled or principal tribe.  If Other Asian or Pacific Islander (API), print one group, for example: Hmong, Fijian, Laotian, Thai, Tongan, Pakistani, Cambodian, and so on. If Other race, print race.	<input type="radio"/> White <input type="radio"/> Black or Negro <input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) <input type="radio"/> Eskimo <input type="radio"/> Aleut <input type="radio"/> Asian or Pacific Islander (API) <input type="radio"/> Chinese <input type="radio"/> Japanese <input type="radio"/> Filipino <input type="radio"/> Asian Indian <input type="radio"/> Hawaiian <input type="radio"/> Samoan <input type="radio"/> Korean <input type="radio"/> Guamanian <input type="radio"/> Vietnamese <input type="radio"/> Other API <input type="radio"/> Other race (Print race)		<input type="radio"/> White <input type="radio"/> Black or Negro <input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) <input type="radio"/> Eskimo <input type="radio"/> Aleut <input type="radio"/> Asian or Pacific Islander (API) <input type="radio"/> Chinese <input type="radio"/> Japanese <input type="radio"/> Filipino <input type="radio"/> Asian Indian <input type="radio"/> Hawaiian <input type="radio"/> Samoan <input type="radio"/> Korean <input type="radio"/> Guamanian <input type="radio"/> Vietnamese <input type="radio"/> Other API <input type="radio"/> Other race (Print race)	
<b>5. Age and year of birth</b> a. Print each person's age at last birthday. Fill in the matching circle below each box.  b. Print each person's year of birth and fill the matching circle below each box.	a. Age 0 0 0 0 0 0 1 0 1 0 1 0 2 0 2 0 3 0 3 0 4 0 4 0 5 0 5 0 6 0 6 0 7 0 7 0 8 0 8 0 9 0 9 0 b. Year of birth 1 0 8 0 0 0 0 0 9 0 1 0 1 0 2 0 2 0 3 0 3 0 4 0 4 0 5 0 5 0 6 0 6 0 7 0 7 0 8 0 8 0 9 0 9 0		a. Age 0 0 0 0 0 0 1 0 1 0 1 0 2 0 2 0 3 0 3 0 4 0 4 0 5 0 5 0 6 0 6 0 7 0 7 0 8 0 8 0 9 0 9 0 b. Year of birth 1 0 8 0 0 0 0 0 9 0 1 0 1 0 2 0 2 0 3 0 3 0 4 0 4 0 5 0 5 0 6 0 6 0 7 0 7 0 8 0 8 0 9 0 9 0	
<b>6. Marital status</b> Fill ONE circle for each person.	<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced		<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced	
<b>7. Is this person of Spanish/Hispanic origin?</b> Fill ONE circle for each person.  If Yes, other Spanish/Hispanic, print one group.	<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Am., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)		<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Am., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)	
<b>FOR CENSUS USE</b>	<input type="radio"/> <input type="radio"/>		<input type="radio"/> <input type="radio"/>	

PERSON 1		NOW PLEASE ANSWER QUESTIONS H1a-H26 FOR THIS HOUSEHOLD	
Last name		H1a. Did you leave anyone out of your list of persons for Question 1a on page 1 because you were not sure if the person should be listed — for example, someone temporarily away on a business trip or vacation, a newborn baby still in the hospital, or a person who stays here once in a while and has no other home?	
First name		<input type="radio"/> Yes, please print the name(s) and reason(s). <input type="radio"/> No	
Middle name		b. Did you include anyone in your list of persons for Question 1a on page 1 even though you were not sure that the person should be listed — for example, a visitor who is staying here temporarily or a person who usually lives somewhere else?	
If a RELATIVE of Person 1: <input type="radio"/> Husband/wife <input type="radio"/> Brother/sister <input type="radio"/> Natural-born or adopted son/daughter <input type="radio"/> Father/mother <input type="radio"/> Grandchild <input type="radio"/> Other relative <input type="radio"/> Stepson/stepdaughter		<input type="radio"/> Yes, please print the name(s) and reason(s). <input type="radio"/> No	
If NOT RELATED to Person 1: <input type="radio"/> Roomer/boarder <input type="radio"/> Unmarried partner <input type="radio"/> Housemate, roommate <input type="radio"/> Other nonrelative		<input type="radio"/> Yes, please print the name(s) and reason(s). <input type="radio"/> No	
<input type="radio"/> Male <input type="radio"/> Female		H2. Which best describes this building? Include all apartments, flats, etc., even if vacant. <input type="radio"/> A mobile home or trailer <input type="radio"/> A one-family house detached from any other house <input type="radio"/> A one-family house attached to one or more houses <input type="radio"/> A building with 2 apartments <input type="radio"/> A building with 3 or 4 apartments <input type="radio"/> A building with 5 to 9 apartments <input type="radio"/> A building with 10 to 19 apartments <input type="radio"/> A building with 20 to 49 apartments <input type="radio"/> A building with 50 or more apartments <input type="radio"/> Other	
<input type="radio"/> White <input type="radio"/> Black or Negro <input type="radio"/> Indian (Amer.) (Print the name of the individual or principal tribe.) <input type="radio"/> Eskimo <input type="radio"/> Aleut <input type="radio"/> Asian or Pacific Islander (API) <input type="radio"/> Chinese <input type="radio"/> Japanese <input type="radio"/> Filipino <input type="radio"/> Asian Indian <input type="radio"/> Hawaiian <input type="radio"/> Samoan <input type="radio"/> Korean <input type="radio"/> Guamanian <input type="radio"/> Vietnamese <input type="radio"/> Other API		H3. How many rooms do you have in this house or apartment? Do NOT count bathrooms, porches, balconies, loyers, halls, or half-rooms. <input type="radio"/> 1 room <input type="radio"/> 4 rooms <input type="radio"/> 7 rooms <input type="radio"/> 2 rooms <input type="radio"/> 5 rooms <input type="radio"/> 8 rooms <input type="radio"/> 3 rooms <input type="radio"/> 6 rooms <input type="radio"/> 9 or more rooms	
<input type="radio"/> Other race (Print race)		H4. Is this house or apartment — <input type="radio"/> Owned by you or someone in this household with a mortgage or loan? <input type="radio"/> Owned by you or someone in this household free and clear (without a mortgage)? <input type="radio"/> Rented for cash rent? <input type="radio"/> Occupied without payment of cash rent?	
a. Age 0 0 0 0 0 1 8 0 0 0 0 1 0 1 0 1 9 0 1 0 1 0 2 0 2 0 2 0 2 0 3 0 3 0 3 0 3 0 4 0 4 0 4 0 4 0 5 0 5 0 5 0 5 0 6 0 6 0 6 0 6 0 7 0 7 0 7 0 7 0 8 0 8 0 8 0 8 0 9 0 9 0 9 0 9 0		b. Year of birth 0 0 0 0 0 1 8 0 0 0 0 1 0 1 0 1 9 0 1 0 1 0 2 0 2 0 2 0 2 0 3 0 3 0 3 0 3 0 4 0 4 0 4 0 4 0 5 0 5 0 5 0 5 0 6 0 6 0 6 0 6 0 7 0 7 0 7 0 7 0 8 0 8 0 8 0 8 0 9 0 9 0 9 0 9 0	
<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced		H5. What is the value of this property that is, how much do you think this house and lot or condominium unit would sell for if it were for sale? <input type="radio"/> Less than \$10,000 <input type="radio"/> \$10,000 to \$14,999 <input type="radio"/> \$15,000 to \$19,999 <input type="radio"/> \$20,000 to \$24,999 <input type="radio"/> \$25,000 to \$29,999 <input type="radio"/> \$30,000 to \$34,999 <input type="radio"/> \$35,000 to \$39,999 <input type="radio"/> \$40,000 to \$44,999 <input type="radio"/> \$45,000 to \$49,999 <input type="radio"/> \$50,000 to \$54,999 <input type="radio"/> \$55,000 to \$59,999 <input type="radio"/> \$60,000 to \$64,999 <input type="radio"/> \$65,000 to \$69,999 <input type="radio"/> \$70,000 to \$74,999 <input type="radio"/> \$75,000 to \$79,999 <input type="radio"/> \$80,000 to \$84,999 <input type="radio"/> \$85,000 to \$89,999 <input type="radio"/> \$90,000 to \$94,999 <input type="radio"/> \$95,000 to \$99,999 <input type="radio"/> \$100,000 to \$124,999 <input type="radio"/> \$125,000 to \$149,999 <input type="radio"/> \$150,000 to \$174,999 <input type="radio"/> \$175,000 to \$199,999 <input type="radio"/> \$200,000 to \$249,999 <input type="radio"/> \$250,000 to \$299,999 <input type="radio"/> \$300,000 to \$399,999 <input type="radio"/> \$400,000 to \$499,999 <input type="radio"/> \$500,000 or more	
<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Am., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinian, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)		H6. What is the monthly rent? <input type="radio"/> Less than \$80 <input type="radio"/> \$80 to \$99 <input type="radio"/> \$100 to \$124 <input type="radio"/> \$125 to \$149 <input type="radio"/> \$150 to \$174 <input type="radio"/> \$175 to \$199 <input type="radio"/> \$200 to \$224 <input type="radio"/> \$225 to \$249 <input type="radio"/> \$250 to \$274 <input type="radio"/> \$275 to \$299 <input type="radio"/> \$300 to \$324 <input type="radio"/> \$325 to \$349 <input type="radio"/> \$350 to \$374 <input type="radio"/> \$375 to \$399 <input type="radio"/> \$400 to \$424 <input type="radio"/> \$425 to \$449 <input type="radio"/> \$450 to \$474 <input type="radio"/> \$475 to \$499 <input type="radio"/> \$500 to \$524 <input type="radio"/> \$525 to \$549 <input type="radio"/> \$550 to \$574 <input type="radio"/> \$575 to \$599 <input type="radio"/> \$600 to \$624 <input type="radio"/> \$625 to \$649 <input type="radio"/> \$650 to \$674 <input type="radio"/> \$675 to \$699 <input type="radio"/> \$700 to \$724 <input type="radio"/> \$725 to \$749 <input type="radio"/> \$750 to \$774 <input type="radio"/> \$775 to \$799 <input type="radio"/> \$800 to \$824 <input type="radio"/> \$825 to \$849 <input type="radio"/> \$850 to \$874 <input type="radio"/> \$875 to \$899 <input type="radio"/> \$900 to \$924 <input type="radio"/> \$925 to \$949 <input type="radio"/> \$950 to \$974 <input type="radio"/> \$975 to \$999 <input type="radio"/> \$1,000 or more	
<input type="radio"/> Yes <input type="radio"/> No		b. Does the monthly rent include any meals? <input type="radio"/> Yes <input type="radio"/> No	
FOR CENSUS USE			
A. Total persons		B. Type of unit	
<input type="radio"/> Occupied <input type="radio"/> Vacant		<input type="radio"/> First form <input type="radio"/> Regular <input type="radio"/> Contin. <input type="radio"/> Usual home elsewhere	
C1. Vacancy status		D. Months vacant	
<input type="radio"/> For rent <input type="radio"/> For sale/occ. <input type="radio"/> For sale only <input type="radio"/> For migrant workers <input type="radio"/> Rented or sold, not occupied <input type="radio"/> Other vacant		<input type="radio"/> Less than 1 <input type="radio"/> 6 up to 12 <input type="radio"/> 1 up to 2 <input type="radio"/> 12 up to 24 <input type="radio"/> 2 up to 6 <input type="radio"/> 25 or more	
C2. Is this unit boarded up?		E. Complete after	
<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> LR <input type="radio"/> TC <input type="radio"/> QA <input type="radio"/> JC <input type="radio"/> PF <input type="radio"/> RE <input type="radio"/> VT <input type="radio"/> MV <input type="radio"/> ED <input type="radio"/> Eb <input type="radio"/> PD <input type="radio"/> P3 <input type="radio"/> P6 <input type="radio"/> PL <input type="radio"/> P4 <input type="radio"/> IA <input type="radio"/> P2 <input type="radio"/> P5 <input type="radio"/> SM	
F. Cov.		G. DO	
<input type="radio"/> 1b <input type="radio"/> 1a <input type="radio"/> 2 <input type="radio"/> H1		<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8 <input type="radio"/> 9 <input type="radio"/> 0	

<p><b>H8.</b> When did the person listed in column 1 on page 2 move into this house or apartment?</p> <p> <input type="radio"/> 1989 or 1990  <input type="radio"/> 1985 to 1988  <input type="radio"/> 1980 to 1984  <input type="radio"/> 1970 to 1979  <input type="radio"/> 1960 to 1969  <input type="radio"/> 1959 or earlier         </p>	<p><b>H14.</b> Which FUEL is used MOST for heating this house or apartment?</p> <p> <input type="radio"/> Gas: from underground pipes serving the neighborhood  <input type="radio"/> Gas: bottled, tank, or LP  <input type="radio"/> Electricity  <input type="radio"/> Fuel oil, kerosene, etc.  <input type="radio"/> Coal or coke  <input type="radio"/> Wood  <input type="radio"/> Solar energy  <input type="radio"/> Other fuel  <input type="radio"/> No fuel used         </p>	<p><b>H20.</b> What are the yearly costs of utilities and taxes for this house or apartment? If you have lived here less than 1 year, estimate the yearly cost.</p> <p><b>a. Electricity</b></p> <p> <input type="text"/> \$ <input type="text"/> .00          Yearly cost — Dollars       </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee  <input type="radio"/> No charge or electricity not used       </p>
<p><b>H9.</b> How many bedrooms do you have; that is, how many bedrooms would you list if this house or apartment were on the market for sale or rent?</p> <p> <input type="radio"/> No bedroom  <input type="radio"/> 1 bedroom  <input type="radio"/> 2 bedrooms  <input type="radio"/> 3 bedrooms  <input type="radio"/> 4 bedrooms  <input type="radio"/> 5 or more bedrooms         </p>	<p><b>H15.</b> Do you get water from —</p> <p> <input type="radio"/> A public system such as a city water department, or private company?  <input type="radio"/> An individual drilled well?  <input type="radio"/> An individual dug well?  <input type="radio"/> Some other source such as a spring, creek, river, stream, etc.?         </p>	<p><b>b. Gas</b></p> <p> <input type="text"/> \$ <input type="text"/> .00          Yearly cost — Dollars       </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee  <input type="radio"/> No charge or gas not used       </p>
<p><b>H10.</b> Do you have COMPLETE plumbing facilities in this house or apartment; that is, 1) hot and cold piped water, 2) a flush toilet, and 3) a bathtub or shower?</p> <p> <input type="radio"/> Yes, have all three facilities  <input type="radio"/> No         </p>	<p><b>H16.</b> Is this building connected to a public sewer?</p> <p> <input type="radio"/> Yes, connected to public sewer  <input type="radio"/> No, connected to septic tank or cesspool  <input type="radio"/> No, use other means         </p>	<p><b>c. Water</b></p> <p> <input type="text"/> \$ <input type="text"/> .00          Yearly cost — Dollars       </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee  <input type="radio"/> No charge       </p>
<p><b>H11.</b> Do you have COMPLETE kitchen facilities; that is, 1) a sink with piped water, 2) a range or cookstove, and 3) a refrigerator?</p> <p> <input type="radio"/> Yes  <input type="radio"/> No         </p>	<p><b>H17.</b> About when was this building first built?</p> <p> <input type="radio"/> 1989 or 1990  <input type="radio"/> 1985 to 1988  <input type="radio"/> 1980 to 1984  <input type="radio"/> 1970 to 1979  <input type="radio"/> 1960 to 1969  <input type="radio"/> 1950 to 1949  <input type="radio"/> 1940 to 1949  <input type="radio"/> 1939 or earlier  <input type="radio"/> Don't know         </p>	<p><b>d. Oil, coal, kerosene, wood, etc.</b></p> <p> <input type="text"/> \$ <input type="text"/> .00          Yearly cost — Dollars       </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee  <input type="radio"/> No charge or these fuels not used       </p>
<p><b>H12.</b> Do you have a telephone in this house or apartment?</p> <p> <input type="radio"/> Yes  <input type="radio"/> No         </p>	<p><b>H18.</b> Is this house or apartment part of a condominium?</p> <p> <input type="radio"/> Yes  <input type="radio"/> No         </p> <p>If you live in an apartment building, skip to H20.</p>	
<p><b>H13.</b> How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of your household?</p> <p> <input type="radio"/> None  <input type="radio"/> 1  <input type="radio"/> 2  <input type="radio"/> 3  <input type="radio"/> 4  <input type="radio"/> 5  <input type="radio"/> 6  <input type="radio"/> 7 or more         </p>	<p><b>H19a.</b> Is this house on less than 1 acre?</p> <p> <input type="radio"/> Yes — Skip to H20  <input type="radio"/> No         </p> <p><b>b.</b> In 1989, what were the actual sales of all agricultural products from this property?</p> <p> <input type="radio"/> None  <input type="radio"/> \$1 to \$999  <input type="radio"/> \$1,000 to \$2,499  <input type="radio"/> \$2,500 to \$4,999  <input type="radio"/> \$5,000 to \$9,999  <input type="radio"/> \$10,000 or more         </p>	

**INSTRUCTION:**

Answer questions H21 TO H26, if this is a one-family house, a condominium, or a mobile home that someone in this household OWNS OR IS BUYING; otherwise, go to page 6.

H21. What were the real estate taxes on THIS property last year?

\$  .00  
Yearly amount — Dollars

OR

☐ None

H22. What was the annual payment for fire, hazard, and flood insurance on THIS property?

\$  .00  
Yearly amount — Dollars

OR

☐ None

H23a. Do you have a mortgage, deed of trust, contract to purchase, or similar debt on THIS property?

- ☐ Yes, mortgage, deed of trust, or similar debt Go to H23b  
☐ Yes, contract to purchase  
☐ No — Skip to H24a

b. How much is your regular monthly mortgage payment on THIS property? Include payment only on first mortgage or contract to purchase.

\$  .00  
Monthly amount — Dollars

OR

☐ No regular payment required Skip to H24a

c. Does your regular monthly mortgage payment include payments for real estate taxes on THIS property?

- ☐ Yes, taxes included in payment  
☐ No, taxes paid separately or taxes not required

d. Does your regular monthly mortgage payment include payments for fire, hazard, or flood insurance on THIS property?

- ☐ Yes, insurance included in payment  
☐ No, insurance paid separately or no insurance

H24a. Do you have a second or junior mortgage or a home equity loan on THIS property?

- ☐ Yes  
☐ No — Skip to H25

b. How much is your regular monthly payment on all second or junior mortgages and all home equity loans?

\$  .00  
Monthly amount — Dollars

OR

☐ No regular payment required

Answer ONLY if this is a CONDOMINIUM —

H25. What is the monthly condominium fee?

\$  .00  
Monthly amount — Dollars

Answer ONLY if this is a MOBILE HOME —

H26. What was the total cost for personal property taxes, site rent, registration fees, and license fees on this mobile home and its site last year? Exclude real estate taxes.

\$  .00  
Yearly amount — Dollars

Please turn to page 6. ➡

PERSON 1		PERSON 2	
Last name	First name	Last name	First name
8. In what U.S. State or foreign country was this person born? <u>7</u>		14a. Did this person live in this home or apartment 5 years ago (on April 1, 1985)? <input type="radio"/> Born after April 1, 1985 — Go to questions for the next person <input type="radio"/> Yes — Skip to 15a <input type="radio"/> No	
(Place of State or foreign country; or Puerto Rico, Guam, etc.)		b. Where did this person live 5 years ago (on April 1, 1985)? (1) Name of U.S. State or foreign country <u>7</u> (If outside U.S., print answer above and skip to 15a.) (2) Name of county in the U.S. <u>7</u> (3) Name of city or town in the U.S. <u>7</u> (4) Did this person live inside this city or town limits? <input type="radio"/> Yes <input type="radio"/> No, lived outside the city/town limits	
9. Is this person a CITIZEN of the United States? <input type="radio"/> Yes, born in the United States — Skip to 22 <input type="radio"/> Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Mariana <input type="radio"/> Yes, born abroad of American parent or parents <input type="radio"/> Yes, U.S. citizen by naturalization <input type="radio"/> No, not a citizen of the United States		18. Does this person have a physical, mental, or other health condition that has lasted for 6 or more months and which — a. Limits the kind or amount of work this person can do at a job? <input type="radio"/> Yes <input type="radio"/> No b. Prevents this person from working at a job? <input type="radio"/> Yes <input type="radio"/> No	
10. When did this person come to the United States to stay? <input type="radio"/> 1987 to 1990 <input type="radio"/> 1970 to 1974 <input type="radio"/> 1985 or 1986 <input type="radio"/> 1965 to 1969 <input type="radio"/> 1982 to 1984 <input type="radio"/> 1960 to 1964 <input type="radio"/> 1980 or 1981 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1975 to 1979 <input type="radio"/> Before 1950		19. Because of a health condition that has lasted for 6 or more months, does this person have any difficulty — a. Going outside the home alone, for example, to shop or visit a doctor's office? <input type="radio"/> Yes <input type="radio"/> No b. Taking care of his or her own personal needs, such as bathing, dressing, or getting around inside the home? <input type="radio"/> Yes <input type="radio"/> No	
11. At any time since February 1, 1990, has this person attended regular school or college? Include only nursery school, kindergarten, elementary school, and schooling which leads to a high school diploma or a college degree. <input type="radio"/> No, has not attended since February 1 <input type="radio"/> Yes, public school, public college <input type="radio"/> Yes, private school, private college		20. How many babies has she ever had, not counting stillbirths? Do not count her stepchildren or children she has adopted. None 1 2 3 4 5 6 7 8 9 10 11 12 or more <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	
12. How much school has this person COMPLETED? Fill ONE circle for the highest level COMPLETED or degree RECEIVED. If currently enrolled, mark the level of previous grade attended or highest degree received. <input type="radio"/> No school completed <input type="radio"/> Nursery school <input type="radio"/> Kindergarten <input type="radio"/> 1st, 2nd, 3rd, or 4th grade <input type="radio"/> 5th, 6th, 7th, or 8th grade <input type="radio"/> 9th grade <input type="radio"/> 10th grade <input type="radio"/> 11th grade <input type="radio"/> 12th grade, NO DIPLOMA <input type="radio"/> HIGH SCHOOL GRADUATE — high school DIPLOMA or the equivalent (For example: GED) <input type="radio"/> Some college but no degree <input type="radio"/> Associate degree in college — Occupational program <input type="radio"/> Associate degree in college — Academic program <input type="radio"/> Bachelor's degree (For example: BA, AB, BS) <input type="radio"/> Master's degree (For example: MA, MS, MEd, MEd, MEd, MEd) <input type="radio"/> Professional school degree (For example: MD, DDS, DVM, LLB, JD) <input type="radio"/> Doctorate degree (For example: PhD, EdD)		21a. Did this person work at any time LAST WEEK? <input type="radio"/> Yes — Fill the circle if this person worked full time or part time. (Count part-time work such as delivering papers, or helping without pay in a family business or farm. Also count active duty in the Armed Forces.) <input type="radio"/> No — Fill this circle if this person did not work, or did only own housework, school work, or volunteer work. — Skip to 25	
13. What is this person's ancestry or ethnic origin? (See instruction guide for further information.) For example: German, Italian, Afro-American, Croatian, Cape Verdean, Dominican, Ecuadorian, Haitian, Cuban, French Canadian, Jamaican, Korean, Lebanese, Mexican, Nigerian, Irish, Polish, Slovak, Taiwanese, Thai, Ukrainian, etc.		21b. How many hours did this person work LAST WEEK (at all jobs)? Subtract any time off; add overtime or extra hours worked. <u>      </u> Hours	
		22. At what location did this person work LAST WEEK? If this person worked at more than one location, print where he or she worked most last week. a. Address (Number and street) <u>7</u> (If the exact address is not known, give a description of the location such as the building name or the nearest street or intersection.) b. Name of city, town, or post office <u>7</u> c. Is the work location inside the limits of that city or town? <input type="radio"/> Yes <input type="radio"/> No, outside the city/town limits d. County <u>7</u> e. State <u>7</u> f. ZIP Code <u>7</u>	
		14. When was this person born? <input type="radio"/> Born before April 1, 1975 — Go to 17a <input type="radio"/> Born April 1, 1975 or later — Go to questions for the next person	
		17a. Has this person ever been on active-duty military service in the Armed Forces of the United States or ever been in the United States military Reserves or the National Guard? If service was in Reserves or National Guard only, see instruction guide. <input type="radio"/> Yes, now on active duty <input type="radio"/> Yes, on active duty in past, but not now <input type="radio"/> Yes, service in Reserves or National Guard only — Skip to 18 <input type="radio"/> No — Skip to 18	
		b. Was active-duty military service during — Fill a circle for each period in which this person served. <input type="radio"/> September 1980 or later <input type="radio"/> May 1975 to August 1980 <input type="radio"/> Vietnam era (August 1964—April 1975) <input type="radio"/> February 1955—July 1964 <input type="radio"/> Korean conflict (June 1950—January 1955) <input type="radio"/> World War II (September 1940—July 1947) <input type="radio"/> World War I (April 1917—November 1918) <input type="radio"/> Any other time	
		c. In total, how many years of active-duty military service has this person had? <u>      </u> Years	

**23a. How did this person usually get to work LAST WEEK?** If this person usually used more than one method of transportation during the trip, fill the circle of the one used for most of the distance.

☐ Car, truck, or van    ☐ Motorcycle  
☐ Bus or trolley bus    ☐ Bicycle  
☐ Streetcar or trolley car    ☐ Walked  
☐ Subway or elevated    ☐ Worked at home  
☐ Railroad    ☐ Skip to 28  
☐ Ferryboat    ☐ Other method  
☐ Taxicab

If "car, truck, or van" is marked in 23a, go to 23b. Otherwise skip to 24a.

**23b. How many people, including this person, usually rode to work in the car, truck, or van LAST WEEK?**

☐ Drove alone    ☐ 5 people  
☐ 2 people    ☐ 6 people  
☐ 3 people    ☐ 7 to 9 people  
☐ 4 people    ☐ 10 or more people

**24a. What time did this person usually leave home to go to work LAST WEEK?**

a.m.  
 p.m.

**24b. How many minutes did it usually take this person to get from home to work LAST WEEK?**

Minutes — Skip to 28

**25. Was this person TEMPORARILY absent or on layoff from a job or business LAST WEEK?**

☐ Yes, on layoff  
☐ Yes, on vacation, temporary illness, labor dispute, etc.  
☐ No

**26a. Has this person been looking for work during the last 4 weeks?**

☐ Yes  
☐ No — Skip to 27

**26b. Could this person have taken a job LAST WEEK if one had been offered?**

☐ No, already has a job  
☐ No, temporarily ill  
☐ No, other reasons (in school, etc.)  
☐ Yes, could have taken a job

**27. When did this person last work, even for a few days?**

☐ 1990    ☐ 1980 to 1984 } Go to 28  
☐ 1989    ☐ 1979 or earlier }  
☐ 1988    ☐ Never worked }  
☐ 1986 to 1987    ☐ Skip to 32

**28-31. CURRENT OR MOST RECENT JOB ACTIVITY.** Describe clearly this person's chief job activity or business last week. If this person had more than one job, describe the one at which this person worked the most hours. If this person had no job or business last week, give information for his/her last job or business since 1985.

**28. Industry or Employer**

a. For whom did this person work?  
 If now on active duty in the Armed Forces, fill this circle ☐ and print the branch of the Armed Forces.

(Name of company, business, or other employer)

b. What kind of business or industry was this?  
 Describe the activity at location where employed.

(For example: hospital, newspaper publishing, medical office, auto engine manufacturing, retail bakery)

c. Is this mainly — Fill ONE circle

☐ Manufacturing    ☐ Other (agriculture, construction, service, government, etc.)  
☐ Wholesale trade  
☐ Retail trade

**29. Occupation**

a. What kind of work was this person doing?

(For example: registered nurse, personnel manager, supervisor of order department, gasoline engine assembler, sales clerk)

b. What were this person's most important activities or duties?

(For example: patient care, directing firing policies, supervising order clerks, assembling engines, firing cables)

**30. Was this person — Fill ONE circle**

☐ Employee of a PRIVATE FOR-PROFIT company or business or of an individual, for wages, salary, or commissions  
☐ Employee of a PRIVATE NOT-FOR-PROFIT, non-exempt, or charitable organization  
☐ Local GOVERNMENT employee (city, county, etc.)  
☐ State GOVERNMENT employee  
☐ Federal GOVERNMENT employee  
☐ SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm  
☐ SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm  
☐ Working WITHOUT PAY in family business or farm

**31a. Last year (1989), did this person work, even for a few days, at a paid job or in a business or farm?**

☐ Yes  
☐ No — Skip to 32

**31b. How many weeks did this person work in 1989?**  
 Count paid vacation, paid sick leave, and military service.

Weeks

**31c. During the weeks WORKED in 1989, how many hours did this person usually work each week?**

Hours

**32. INCOME IN 1989 —**  
 Fill the "Yes" circle below for each income source received during 1989. Otherwise, fill the "No" circle. If "Yes," enter the total amount received during 1989. For income received jointly, see instruction page. If exact amount is not known, please give best estimate. If net income was a loss, write "Loss" above the dollar amount.

a. Wages, salary, commissions, bonuses, or tips from all jobs — Report amount before deductions for taxes, bonds, dues, or other items.

☐ Yes — \$ \_\_\_\_\_ .00  
☐ No — Annual amount — Dollars

b. Self-employment income from own nonfarm business, including proprietorship and partnership — Report NET income after business expenses.

☐ Yes — \$ \_\_\_\_\_ .00  
☐ No — Annual amount — Dollars

c. Farm self-employment income — Report NET income after operating expenses. Include earnings as a tenant farmer or sharecropper.

☐ Yes — \$ \_\_\_\_\_ .00  
☐ No — Annual amount — Dollars

d. Interest, dividends, net rental income or royalty income, or income from estates and trusts — Report even small amounts credited to an account.

☐ Yes — \$ \_\_\_\_\_ .00  
☐ No — Annual amount — Dollars

e. Social Security or Railroad Retirement

☐ Yes — \$ \_\_\_\_\_ .00  
☐ No — Annual amount — Dollars

f. Supplemental Security Income (SSI), Aid to Families with Dependent Children (AFDC), or other public assistance or public welfare payments.

☐ Yes — \$ \_\_\_\_\_ .00  
☐ No — Annual amount — Dollars

g. Retirement, survivor, or disability pensions — Do NOT include Social Security.

☐ Yes — \$ \_\_\_\_\_ .00  
☐ No — Annual amount — Dollars

h. Any other sources of income received regularly such as Veterans' (VA) payments, unemployment compensation, child support, or alimony — Do NOT include lump-sum payments such as money from an inheritance or the sale of a home.

☐ Yes — \$ \_\_\_\_\_ .00  
☐ No — Annual amount — Dollars

**33. What was this person's total income in 1989?**  
 Add entries in questions 32a through 32h; subtract any losses. If total amount was a loss, write "Loss" above amount.

☐ None OR \$ \_\_\_\_\_ .00  
 Annual amount — Dollars

Please turn the page and answer questions for Person 2 listed on page 1. If this is the last person listed in question 1a on page 1, go to the back of the form.

# APPENDIX F.

## Data Products and User Assistance

### CONTENTS

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The 1990 census data products, being released during 1991-94, are available in a variety of new and traditional media. The Census Bureau has increased the product options available to data users in an effort to meet a variety of requirements and maximize the usefulness of the data. For example, laser discs, called CD-ROM (compact disc—read-only memory), are a new data delivery medium.

The Census Bureau also has expanded services and sources of assistance available to data users. For example, the State Data Center Program has been expanded to include over 1,400 organizations to provide data and services to the public.

This appendix provides a detailed introduction to the 1990 census data products and related materials, such as maps and reference publications. It concludes by describing sources of assistance and other Census Bureau data available to the public.

### DATA PRODUCTS

Printed reports and computer tape files traditionally are the most widely used products. The Census Bureau also offers data on microfiche, on CD-ROM laser discs, and through its online service, CENDATA™. These various products are described below. For information about prices and how to order, write or call Customer Services. (See the "Sources of Assistance" section for the address and phone number.)

The data products present statistics about the subjects covered in the 1990 census questionnaires. These subjects are listed in figure 1, page F-8. As the figure shows, there are 100-percent subjects (those covered in questions asked of everyone or about every housing unit) and sample subjects (those covered in questions asked at about one out of every six housing units). Generally, a data product presents either 100-percent data prepared by tabulating the responses to the 100-percent questions from all questionnaires, or sample data prepared by tabulating only the responses to the 100-percent and sample questions from the "long-form" questionnaires. Two report series, 1990 CPH-3 and 1990 CPH-4 (see figure 2, page F-9), present both 100-percent and sample data.

### Printed Reports

Printed reports are the most convenient and readily available source of data for most census users. The Census Bureau releases the reports in several series (see figure 2) that are grouped under three broad titles: *1990 Census of Population and Housing* (1990 CPH), *1990 Census of Population* (1990 CP), and *1990 Census of Housing* (1990 CH). There also are reports, not reflected in figure 2, for the outlying areas of the Pacific. The reports are sold by the Superintendent of Documents, U.S. Government Printing Office. (See the "Sources of Assistance" section for the address and phone number.)

In several series, there are separate reports for each State. The geographic coverage of the State reports is listed in figure 2. The United States summaries for these report series contain, for the most part, data for the United States, regions, divisions, States, metropolitan areas (MA's), urbanized areas (UA's), counties, American Indian and Alaska Native areas, places with 10,000 or more persons, and other large substate areas (for example, county subdivisions, such as towns and townships, with 10,000 or more persons in selected States).

Report series that present data for small areas, such as census tracts, contain limited subject-matter detail (for example, counts of people by age ranges—under 5 years, 5 to 9 years, etc.—rather than by single years). Report series that include greater amounts of subject-matter detail include less geographic detail.

### Computer Tape Files

The Census Bureau provides more data on tape and other machine-readable products than in printed reports. These products are sold by the Census Bureau's Customer Services. There are several general types of data files released on computer tape (available on both reels and cartridges). They are introduced below, and more information is presented in figures 3 and 4, pages F-12 through F-14.

**Public Law 94-171 Data**—This data file presents the counts designed and formatted for use in legislative redistricting. These counts also are available on CD-ROM and paper listings. Excerpts are available on CENDATA™. The counts, for areas as small as blocks, census tracts, and voting districts, include totals for population, race groups, persons of Hispanic origin, population 18 years and over, and housing units. (See figure 4.)

**Summary Tape Files (STF's)**— These computer tape files provide statistics with greater subject-matter detail than printed reports. They also present statistics for some types of areas, such as block groups and blocks, that are not included in the reports. (See figure 3.)

Here are some important features of STF's:

- Each STF presents a particular set of data tables for specific types of geographic areas.
- Each STF has three or more file types (indicated by a letter suffix attached to the STF number) that differ in the geographic levels reported, but contain the same data detail.
- STF's 1 and 2 contain 100-percent data, and STF's 3 and 4 offer sample data.
- STF's 1 and 3 report on smaller areas and offer less data detail than STF's 2 and 4.
- STF's 1 through 4 offer greater data detail than the 1980 STF's 1 through 4.

**Subject Summary Tape Files (SSTF's)**—These files are the source of the subject reports and provide greater subject-matter detail than the STF's. They present data for the United States, regions, and divisions, and, in some cases, also for States, counties, and large cities. (See figure 4.)

**Public Use Microdata Sample (PUMS) Files**—These computer tape files (see figure 4) contain data from samples of long-form housing-unit records ("microdata") for large geographic areas. Each sample housing-unit record includes essentially all the 1990 census data collected about each person in a sample household and the characteristics of the housing unit. Information that could be used to identify an individual or a housing unit is not included in the file.

Microdata files enable users to prepare customized tabulations and cross-tabulations of most items on the census questionnaire. There are two standard PUMS files:

- A file presenting a 5-percent sample of housing units in which each household record includes codes to let the user know in what area, such as a group of counties, a single county, or a place, the household is located. Each area identified must have a population of at least 100,000 and boundaries that do not cross State lines.
- A file presenting a 1-percent sample of housing units. Its household records include codes associating them with MA's and other large areas, the boundaries of which may cross State lines. (For the 1980 census, there were two files with 1-percent samples. The 1-percent sample showing data for selected urbanized areas and other large areas will not be produced for the 1990 census.)

There also is a special 3-percent "elderly" file with the same geography as the 5-percent sample. Included are households with at least one person age 60 or more and all members of those households.

**Other Special Computer Tape Files**—Other files include the Census/Equal Employment Opportunity (EEO) File and the County-to-County Migration File. (See figure 4.) The Census Bureau may prepare additional special files.

## Microfiche

All printed reports are offered on microfiche from Customer Services soon after they are published. Plans to prepare microfiche versions of selected other products were canceled, so that more products could be produced on CD-ROM.

## Compact Disc—Read-Only Memory (CD-ROM)

For the 1990 census, the Public Law (P.L.) 94-171 file; an extract of STF 1B that presents selected statistics for blocks; and STF's 1A, 1C, 3A, 3B, and 3C are also available on CD-ROM. The Census Bureau also offers on CD-ROM: PUMS Files, SSTF's, Census EEO File, and County-to-County Migration File. (One 4 3/4-inch CD-ROM, a type of optical or laser disc, can hold the contents of approximately 1,600 flexible diskettes, or three or four high-density computer tapes.)

## Online Information Systems

The Census Bureau began CENDATA™, its online information service, in 1984. CENDATA™ is accessible through two information vendors, CompuServe and DIALOG. A number of Census Bureau reports, in whole or in part, are offered online. For the 1990 census, CENDATA™ provides up-to-date information about the availability of data products and carries selections of State, county, MA, and place data from the P.L. 94-171 tape file and STF's 1 and 3. CENDATA™ also offers the entire Census EEO File.

## Custom Data Products

These products are for users who require unique tabulations that are not included in standard products; for example, information for locally defined geographic areas. Users also can order special microdata files.

The cost of preparing custom products must be paid by the users who request them. Any data that the Census Bureau provides in these products are subject to the same standards applied to other data to ensure that confidential individual information is not revealed.



**User-Defined Areas Program (UDAP) Tabulations—**UDAP can provide a set of predefined data tables for locally defined areas that do not correspond to standard 1990 census geographic areas. Users identify the geographic areas of interest to them by delineating boundaries around groupings of census blocks on 1990 census County Block Maps or by electronically submitting the geographic components of their area of interest. (A contact for more information is given in the "Sources of Assistance" section.)

**Special Tabulations—**The Census Bureau can prepare special data tabulations for any specific geographic or subject-matter area. Users should rely on standard reports, tapes, microfiche, or user-defined area tabulations whenever possible, since special tabulations tend to be substantially more expensive and take time to arrange and produce. (Contacts for more information are given in the "Sources of Assistance" section.)

## GEOGRAPHIC PRODUCTS

### Maps

Census Bureau maps are necessary for virtually all uses of small-area 1990 census data. They are needed to locate the specific geographic areas for which the census provides data and to study the spatial relationship of the data for analytic purposes. The Census Bureau prepares a variety of 1990 census maps. Among the most useful are these series:

**County Block Maps—**These maps show census blocks and their numbers; boundaries for statistical and governmental entities, such as census tracts and places; and physical features. The P.L. 94-171 version of these maps also shows voting district boundaries in those States that furnished them. The maps are prepared on electrostatic plotters by county (or equivalent entity) with one or more map sheets each, depending on the size and shape of the area and the density of the block pattern. An average county requires 20 map sheets. The maps may be purchased from Customer Services.

**County Subdivision Outline Maps—**Maps in this State-based series present the boundaries of the counties, county subdivisions, places, American Indian and Alaska Native areas (including off-reservation trust lands), tribal designated statistical areas, and tribal jurisdiction statistical areas. Electrostatic-plotter copies are available for purchase from Customer Services. Also, they appear on multiple page-size sheets in the State reports of these series: 1990 CPH-1, 1990 CPH-2, 1990 CPH-5, 1990 CP-1, 1990 CP-2, 1990 CH-1, and 1990 CH-2.

**Census Tract/Block Numbering Area (BNA) Outline Maps—**Maps in this county-based series depict census tract or BNA boundaries and numbers, and the features

underlying the boundaries. They also show governmental units in relation to the census tracts/BNA's. The Superintendent of Documents sells printed copies.

**Urbanized Area Outline/Boundary Maps—**Maps in this urbanized area-based series depict the boundaries of the urbanized area and the features underlying the boundaries. They also show the boundaries for American Indian and Alaska Native areas (AIANA's), States, counties, county subdivisions (MCD's/CCD's), places (incorporated and census designated), the map series subject area, and selected base features and their names at a small scale. Electrostatic-plotter copies are available for purchase from Customer Services. Also, they appear on multiple page-size sheets in the State reports of the 1990 CPH-2 series and the Supplementary Report, 1990 CPH-S-1-2, *Urbanized Areas of the United States and Puerto Rico: 1990*.

**Voting District Outline Maps—**Maps in this county-based series depict voting district boundaries (for those counties for which States furnished boundary information) and the features underlying the boundaries. They also show governmental unit boundaries in relation to the voting districts. They are prepared on electrostatic plotters and sold by Customer Services.

### Geographic Publications

The *Geographic Identification Code Scheme* report in the 1990 CPH-R series will not be printed. Persons interested in this report are encouraged to use the TIGER/GICS™ tape file (which also will be available on CD-ROM) described below. Listings similar to the tables that would have been included in the report may be offered. Contact Customer Services, Data User Services Division, Bureau of the Census, Washington, DC 20233, telephone 301-763-4100.

The *Congressional District Atlas, 103rd Congress of the United States* is a two-volume, 1,200-page atlas depicting the boundaries and number of the districts for the 103rd Congress as defined following the 1990 decennial census. This is the first Congress defined following the 1990 decennial census and, therefore, illustrates the most significant changes of the decade, including the reapportionment of the U.S. House of Representatives. Congressional district boundaries following governmental unit boundaries such as an incorporated place of a minor civil division, are illustrated using symbology identified in the map legend. Wherever possible, features used as congressional district boundaries are identified by their feature name or their feature type. The Census Bureau may produce subsequent atlases if court ordered or State mandated redistricting creates new congressional district boundaries. The Atlas is sold by the Superintendent of Documents (stock no. 003-024-08683-2; \$42).

## Machine-Readable Geographic Files

All 1990 census summary tape files include 1990 census geographic area codes, FIPS codes, certain area names, land and inland water area in square kilometers, geographic coordinates for an internal point for each entity, and other geographic information.

The Census Bureau developed an automated geographic data base, known as the TIGER (Topologically Integrated Geographic Encoding and Referencing) System, to produce the geographic products for the 1990 census. TIGER provides coordinate-based digital map information for the entire United States, Puerto Rico, the U.S. Virgin Islands, and the Pacific territories over which the United States has jurisdiction.

The TIGER System has significantly improved the utility of 1990 census maps and geographic reference products. Extract files generated from the TIGER System permit users, with appropriate software, to perform such tasks as linking the statistical data in the P.L. 94-171 file or the STF's and displaying selected characteristics on maps or a video display screen at different scales and with whatever boundaries they select for any geographic area of the country. For example, a map for a particular county could show the distribution of the voting age population by city block.

The first extract of selected geographic and cartographic information intended for computer applications, such as plotting maps and building geographic information systems, is called the TIGER/Line™ files. TIGER/Line™ files (released on tape and CD-ROM) contain attributes for the segments of each boundary and feature (for example, roads, railroads, and rivers), including 1990 census geographic codes for adjacent areas, latitude/longitude coordinates of segment end points and the curvature of segments, the name and type of the feature, and the relevant census feature class code identifying the feature segment by category. TIGER/Line™ files also furnish address ranges and associated ZIP Codes for each side of street segments that have city-style (house number/street name) addresses; provide the names of landmarks, such as lakes and golf courses; and include other information. The 1992 version also includes school district codes, 1990 census urbanized area codes, codes for districts of the 103rd Congress, and address range coverage expanded to include all areas that have city-style addresses.

TIGER/GICS™ file is another extract. This file contains a total of 12 files, organized on a national or State-by-State basis, for a variety of geographic entities, such as metropolitan areas and their components as of the 1990 census, 1990 census urbanized areas and their components, American Indian and Alaska Native areas and their related states and counties, as well as more familiar entities including counties with their county subdivisions and places). This file contains high-level geographic names, codes, and relationship information. It can be used to link geographic entity names to the

codes in the TIGER/Line™, TIGER/SDTS™ and other TIGER extract files. It also contains 1990 census population and housing counts, population density (CD-ROM version only, but can be calculated using the tape version), and area measurement information (including land area, total water area and separate measurements for each of the four components of water—Inland, Great Lakes, Coastal, and Territorial), as well as the latitude and longitude for an internal point within each geography entity. The TIGER/GICS™ also includes corrections to names for selected entities and corrections to the FIPS 55 codes for county subdivisions and places. The first 300 characters of each record in this file are the same as those in the Data Dictionary for the Summary Tape Files; and additional 100 characters provide the above mentioned corrections and components of water. Listings of the files in the TIGER/GICS™ may be offered. Call Customer Services at 301-763-4100.

Other TIGER System extracts, such as TIGER/Census Tract Comparability™ file and TIGER/UA Limit file, are released on computer tape and, in some cases, CD-ROM. For information on TIGER extract files, contact Customer Services.

## REFERENCE MATERIALS

The Census Bureau issues several reference publications for data users. Some are sold by the Superintendent of Documents; others are distributed free by Customer Services. Addresses and phone numbers for the Superintendent of Documents and Customer Services are given in the following section.

- *1990 Census of Population and Housing, Guide.* This guide, in the 1990 CPH-R report series, provides detailed information about all aspects of the census and a comprehensive glossary of census terms. Sold by the Superintendent of Documents, U.S. Government Printing Office. (Part A, Text: stock no. 003-024-08574-7, \$11. Part B, Glossary: stock no. 003-024-08679-4, \$5.50.)
- *1990 Census of Population and Housing Tabulation and Publication Program.* A free report describing 1990 census products, comparing 1990 products with those of 1980, and more. Request from Customer Services.
- *Census '90 Basics.* A free booklet covering how the 1990 census data were collected and processed, the full range of data products, the maps and geographic files, and more, but with less detail than the Guide (above). Request from Customer Services.
- *Census ABC's—Applications in Business and Community.* A free booklet that highlights key information about the 1990 census and illustrates a variety of ways the data can be used. Request from Customer Services.

- **Maps and More.** A free, tabloid-size booklet that describes the geographic entities for which the Census Bureau tabulates data. The booklet provides information on the types of geographic entities, how their boundaries are established, and how they relate to each other. It also covers how these entities differ among the censuses and surveys and describes the geographic products available from the Census Bureau. Request from Customer Services.
- **Strength in Numbers.** A free, tabloid-size booklet designed to assist people in using 1990 census data in redistricting. Among other features, it includes illustrations of maps and Public Law 94-171 counts. Request from Customer Services.
- **TIGER: The Coast-to-Coast Digital Map Data Base.** A free booklet describing the structure and uses of the Census Bureau's TIGER System. Request from Customer Services.
- **Census and You.** The Census Bureau's monthly newsletter for data users. It reports on the latest 1990 census developments, selected new publications and computer tape files, other censuses and surveys, developments in services to users, and upcoming conferences and training courses. Subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office.
- **Monthly Product Announcement.** A free monthly listing of all new Census Bureau publications; microfiche; maps; data files on tape, diskettes, or CD-ROM; and technical documentation. To subscribe, contact Customer Services.
- **Census Catalog and Guide.** A comprehensive annual description of data products, statistical programs, and services of the Census Bureau. It provides abstracts of the publications, data files, microfiche, maps, and items online. In addition, the Catalog/Guide offers such features as information about censuses and surveys and telephone contact lists of data specialists at the Census Bureau, the State Data Centers, and other data processing service centers. It is sold by the Superintendent of Documents, U.S. Government Printing Office.

Users also can get listings of new Census Bureau products, updated daily, by subscribing to the *Daily List*. This information and selected statistics are available online through CENDATA™, the Census Bureau's online information service. For more information, contact Customer Services.

## SOURCES OF ASSISTANCE

### U.S. Bureau of the Census

The Census Bureau's Customer Services sells most of the machine-readable data products, microfiche, and maps described earlier. (The 1990 census printed reports

are sold by the Superintendent of Documents, as noted below.) Also, users may consult with specialists at the Census Bureau's Washington headquarters and its 12 regional offices. From time to time, the specialists also conduct workshops, seminars, and training courses.

**Washington, DC, Contacts—**To order products, for a telephone contacts list of Census Bureau specialists, and for general information: Customer Services, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4100 (fax number, 301-763-4794).

For User-Defined Areas Program (UDAP) information: UDAP Staff, Decennial Management Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4282.

For special tabulation information: Population—Rosemarie Cowan, Population Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-5476; Housing—Housing and Household Economic Statistics, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-8553.

### Regional Office Contacts—

Atlanta, GA	404-730-3833
Boston, MA	617-424-0510
Charlotte, NC	704-344-6144
Chicago, IL	312-353-0980
Dallas, TX	214-767-7105
Denver, CO	303-969-7750
Detroit, MI	313-259-1875
Kansas City, KS	913-551-6711
Los Angeles, CA	818-904-6339
New York, NY	212-264-4730
Philadelphia, PA	215-597-8313
Seattle, WA	206-728-5314

### Superintendent of Documents, U.S. Government Printing Office

The Superintendent of Documents handles the sale of most of the Federal Government's publications, including 1990 census reports. To order reports and for information: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, telephone 202-783-3238.

### Other Sources of Products and Services

**State Data Centers—**The Census Bureau furnishes data products, training in data access and use, technical assistance, and consultation to all States, the District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands. State Data Centers, in turn, offer publications for reference, printouts from computer tape, specially prepared reports, maps, and other products and assistance to data users. For a list of the State Data Centers, see the *Census Catalog and Guide* or contact Customer

**Services.** The list also notes organizations in States participating in the Census Bureau's Business/Industry Data Center (BIDC) Program. The BIDC's help business people, economic development planners, and other data users obtain and use data.

**Census Information Center (CIC)**—The CIC program provides data-related services for nationally based nonprofit organizations that represent minorities or other segments of the population who have been historically undercounted in decennial censuses. The participants include social service, business, professional, civil rights, educational, and religious groups. Through the project, five nonprofit groups now offer their clientele reports, computer tape printouts, and other information from the Census Bureau. To learn more about the program, write to the Data User Services Division, Bureau of the Census, Washington, DC 20233, or call 301-763-1580.

**National Clearinghouse**—The National Clearinghouse for Census Data Services is a listing of private companies and other organizations that offer assistance in obtaining and using data released by the Census Bureau. For a list of participants in the National Clearinghouse, see the *Census Catalog and Guide* or contact Customer Services.

**Depository Libraries**—There are 1,400 libraries that receive (from the Government Printing Office) Federal publications that they think their patrons will need. Often some of these publications are Census Bureau reports. The Census Bureau provides free reports to an additional 120 census depository libraries. Also, many libraries purchase census reports and maps for their areas. The *Census Catalog and Guide* includes a list of all depository libraries.

## OTHER CENSUS BUREAU RESOURCES

The Census Bureau has more to offer than just the results of the census of population and housing. Through other censuses, surveys, and estimates programs, it compiles and issues (in reports, computer tape, and other media) data on subjects as diverse as appliance sales, neighborhood conditions, and exports to other countries. Here are examples of the information published about—

- **People:** Age, race, sex, income, poverty, child care, child support, fertility, noncash benefits, education, commuting habits, pension coverage, unemployment, ancestry.
- **Business and industry:** Number of employees, total payroll, sales and receipts, products manufactured or sold.
- **Housing and construction:** Value of new construction, numbers of owners and renters, property value or rent paid, housing starts, fuels used, mortgage costs.

- **Farms:** Number, acreage, livestock, crop sales.
- **Governments:** Revenues and expenditures, taxes, employment, pension funds.
- **Foreign trade:** Exports and imports, origin and destination, units shipped.
- **Other nations:** Population, birth rates, death rates, literacy, fertility.

The other censuses, such as agriculture, retail trade, manufactures, and governments, are collected for years ending in "2" and "7." Surveys and estimates programs generate results as often as every month.

Many of the monthly "economic indicators" that measure how the Nation is doing come directly or indirectly from the Census Bureau. Examples: employment and unemployment; housing starts; wholesale and retail trade; manufacturers' shipments, inventories, and orders; export and import trade; and sales of single-family homes.

The other statistical activities of the Census Bureau are described below. Data users will find more information about them and descriptions of their data products in the annual *Census Catalog and Guide*. Also, special guides and brochures are prepared for most of them. Contact the Census Bureau's Customer Services for more information.

## Current Demographic and Housing Programs

Two types of current programs complement the 10-year census: population estimates and surveys. The total population of the United States is estimated monthly; the population of States, counties, and metropolitan areas is estimated annually; and the population of places and other governmental units is estimated every 2 years. Projections of future population are made at the national and State levels.

The Census Bureau's many household surveys update population and housing characteristics at the national level and sometimes for States and metropolitan areas, as well. These surveys also obtain many characteristics not included in the 10-year census. The Current Population Survey is taken monthly; the American Housing Survey national sample is taken biennially; the American Housing Survey metropolitan sample is taken in 44 areas, 11 per year in a 4-year cycle; most other surveys are annual or less frequent.

## Economic Censuses and Surveys

The economic censuses provide statistics about business establishments once every 5 years, covering years ending in "2" and "7." The 1992 Economic Censuses include the censuses of retail trade; wholesale trade; service industries; transportation, communications, and utilities; manufactures; mineral industries; construction

industries; and financial, insurance, and real estate industries. Also included are related programs, such as statistics on minority- and women-owned businesses, enterprise statistics, and censuses of economic activity in Puerto Rico and some of the outlying areas under U.S. jurisdiction.

Several key statistics are tabulated for all industries covered in the censuses. They are number of establishments, number of employees, payroll, and measure of output (sales or receipts, and value of shipments or of work done). Other items vary from sector to sector.

The Census Bureau also has programs that provide current statistics on such measures as total sales of particular kinds of businesses or production of particular products. These programs include monthly, quarterly, and annual surveys, the results of which appear in publication or online series such as *Current Business Reports* and *Current Industrial Reports*. The County Business Patterns program offers annual statistics based on data compiled primarily from administrative records.

### **Agriculture Census and Surveys**

The agriculture census is conducted concurrently with the economic censuses. It is the only source of uniform agriculture data at the county level. It provides data on such subjects as the number and size of farms; land use and ownership; livestock, poultry, and crops; and value of products sold.

Results of three surveys—the 1988 Farm and Ranch Irrigation Survey, 1988 Census of Horticulture Specialties, and 1988 Agricultural Economics and Land Ownership Survey—are published in conjunction with the 1987 Census of Agriculture.

### **Governments Census and Surveys**

The census of governments, also for years ending in “2” and “7,” covers all types of governments: Federal, State, county, municipal (place), township (county subdivision), school district, and special district. It provides

data on such subjects as number of public employees, payrolls, revenue, and expenditures.

Annual and quarterly surveys cover the same principal subjects but generate data only for States and the largest local governments.

### **Foreign Trade Statistics**

Monthly U.S. merchandise trade data compiled by the Census Bureau summarize export and import transactions and are based on the official documents filed by shippers and receivers. These figures reflect the flow of merchandise but not intangibles like services and financial commitments. The trade figures trace commodity movements out of and into the U.S. Customs jurisdiction, which includes Puerto Rico and the U.S. Virgin Islands as well as the 50 States and the District of Columbia. Data are published separately on trade between the United States and Puerto Rico, the U.S. Virgin Islands, and other U.S. territories.

### **Other Statistical Activities**

The Census Bureau also offers international data. It maintains an international data base which is available to the public on computer tape and is used to produce the biennial *World Population Profile* report. It prepares studies dealing with the demographic and economic characteristics of other countries and world regions.

Statistical compendia are another important data product. These publications (sometimes also offered in machine-readable form) draw data from many sources and reorganize them for convenient use. The most widely used compendia are the annual *Statistical Abstract of the United States*, the *County and City Data Book* (published every 5 years), and the *State and Metropolitan Area Data Book* (published approximately every 4 years).

Figure 1. 1990 Census Content

100-PERCENT COMPONENT	
<b>Population</b>	<b>Housing</b>
Household relationship	Number of units in structure
Sex	Number of rooms in unit
Race	Tenure—owned or rented
Age	Value of home or monthly rent
Marital status	Congregate housing (meals included in rent)
Hispanic origin	Vacancy characteristics
SAMPLE COMPONENT	
<b>Population</b>	<b>Housing</b>
<i>Social characteristics:</i>	Year moved into residence
Education—enrollment and attainment	Number of bedrooms
Place of birth, citizenship, and year of entry into U.S.	Plumbing and kitchen facilities
Ancestry	Telephone in unit
Language spoken at home	Vehicles available
Migration (residence in 1985)	Heating fuel
Disability	Source of water and method of sewage disposal
Fertility	Year structure built
Veteran status	Condominium status
<i>Economic characteristics:</i>	Farm residence
Labor force	Shelter costs, including utilities
Occupation, industry, and class of worker	
Place of work and journey to work	
Work experience in 1989	
Income in 1989	
Year last worked	

NOTE. Questions dealing with the subjects covered in the 100-percent component were asked of all persons and housing units. Those covered by the sample component were asked of a sample of the population and housing units.

Figure 2. 1990 Census Printed Reports

Series	Title	Report(s) Issued for	Description	Geographic areas
<b>1990 CENSUS OF POPULATION AND HOUSING (1990 CPH)</b>				
<b>100-Percent Data</b>				
1990 CPH-1	Summary Population and Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Population and housing unit counts, and summary statistics on age, sex, race, Hispanic origin, household relationship, units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CPH-2	Population and Housing Unit Counts	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Total population and housing unit counts for 1990 and previous censuses	States, counties, county subdivisions, places, State component parts of metropolitan areas (MA's) and urbanized areas (UA's), and summary geographic areas (for example, urban and rural)
<b>100-Percent and Sample Data</b>				
1990 CPH-3	Population and Housing Characteristics for Census Tracts and Block Numbering Areas	MA's, and the nonmetropolitan balance of each State, Puerto Rico, and U.S. Virgin Islands	Statistics on 100-percent and sample population and housing subjects	In MA's: census tracts/block numbering areas (BNA's), places of 10,000 or more inhabitants, and counties. In the remainder of each State: census tracts/BNA's, places of 10,000 or more, and counties
1990 CPH-4	Population and Housing Characteristics for Congressional Districts of the 103rd Congress	States and DC	Statistics on 100-percent and sample population and housing subjects	Congressional districts (CD's) and, within CD's, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, and American Indian and Alaska Native areas
<b>Sample Data</b>				
1990 CPH-5	Summary Social, Economic, and Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population and housing subjects	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
<b>1990 CENSUS OF POPULATION (1990 CP)</b>				
<b>100-Percent Data</b>				
1990 CP-1	General Population Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural

Figure 2. 1990 Census Printed Reports—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
<b>1990 CENSUS OF POPULATION (1990 CP)—Con.</b>				
<b>100-Percent Data—Con.</b>				
1990 CP-1-1A	<b>General Population Characteristics for American Indian and Alaska Native Areas</b>	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, off-reservation trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CP-1-1B	<b>General Population Characteristics for Metropolitan Areas</b>	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CP-1-1C	<b>General Population Characteristics for Urbanized Areas</b>	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
<b>Sample Data</b>				
1990 CP-2	<b>Social and Economic Characteristics</b>	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and the State portion of American Indian areas
1990 CP-2-1A	<b>Social and Economic Characteristics for American Indian and Alaska Native Areas</b>	U.S.	Statistics generally on sample population subjects	American Indian and Alaska Native areas, as for CP-1-1A
1990 CP-2-1B	<b>Social and Economic Characteristics for Metropolitan Areas</b>	U.S.	Statistics generally on sample population subjects	Individual MA's, as for CP-1-1B
1990 CP-2-1C	<b>Social and Economic Characteristics for Urbanized Areas</b>	U.S.	Statistics generally on sample population subjects	Individual UA's, as for CP-1-1C
1990 CP-3	<b>Population Subject Reports</b>	Selected subjects	Reports on selected population census subjects	Generally limited to the U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places



Figure 2. 1990 Census Printed Reports—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
<b>1990 CENSUS OF HOUSING (1990 CH)</b>				
<b>100-Percent Data</b>				
1990 CH-1	<b>General Housing Characteristics</b>	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy char- acteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural
1990 CH-1-1A	<b>General Housing Characteristics for American Indian and Alaska Native Areas</b>	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy char- acteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, trust lands, tribal jurisdiction statis- tical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statisti- cal areas, and Alaska Native Regional Corporations
1990 CH-1-1B	<b>General Housing Characteristics for Metropolitan Areas</b>	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy char- acteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CH-1-1C	<b>General Housing Characteristics for Urbanized Areas</b>	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy char- acteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
<b>Sample Data</b>				
1990 CH-2	<b>Detailed Housing Characteristics</b>	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample housing subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county sub- divisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and State parts of American Indian areas
1990 CH-2-1A	<b>Detailed Housing Characteristics for American Indian and Alaska Native Areas</b>	U.S.	Statistics generally on sample housing subjects	American Indian and Alaska Native areas, as in 1990 CH-1-1A
1990 CH-2-1B	<b>Detailed Housing Characteristics for Metropolitan Areas</b>	U.S.	Statistics generally on sample housing subjects	Individual MA's, as in 1990 CH-1-1B
1990 CH-2-1C	<b>Detailed Housing Characteristics for Urbanized Areas</b>	U.S.	Statistics generally on sample housing subjects	Individual UA's, as in 1990 CH-1-1C
1990 CH-3	<b>Housing Subject Reports</b>	Selected subjects	Reports on selected hous- ing census subjects	Generally limited to U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 3. 1990 Census Summary Tape Files

Summary Tape File  
(STF 1A, 1B, etc.)  
and data type  
(100 percent or  
sample)<sup>1</sup>

		Geographic areas	Description
STF 1 (100 percent)	A <sup>2</sup>	States, counties, county subdivisions, places, census tracts/block numbering areas (BNA's), block groups (BG's). Also Alaska Native areas and State parts of American Indian areas	Over 900 cells/items of 100-percent population and housing counts and characteristics for each geographic area
	B <sup>2</sup>	States, counties, county subdivisions, places, census tracts/BNA's, BG's, blocks. Also Alaska Native areas and State parts of American Indian areas	
	C <sup>2</sup>	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, metropolitan areas (MA's), urbanized areas (UA's), American Indian and Alaska Native areas	
	D	Congressional districts (CD's) of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, Alaska Native areas, and American Indian areas	
STF 2 (100 percent)	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/BNA's	Over 2,100 cells/items of 100-percent population and housing counts and characteristics for each geographic area. Each of the STF 2 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin
	B	States (including summaries such as urban and rural), counties, places of 1,000 or more inhabitants, county subdivisions, State parts of American Indian areas, and Alaska Native areas	
	C	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	
STF 3 (Sample)	A <sup>2</sup>	States, counties, county subdivisions, places, census tracts/BNA's, BG's. Also Alaska Native areas and State parts of American Indian areas	Over 3,300 cells/items of sample population and housing characteristics for each geographic area
	B <sup>2</sup>	Five-digit ZIP Codes within each State	
	C <sup>2</sup>	U.S., regions, divisions, States, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, American Indian and Alaska Native areas, MA's, UA's	
	D	CD's of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States	

Figure 3. 1990 Census Summary Tape Files—Con.

Summary Tape File  
(STF 1A, 1B, etc.)  
and data type  
(100 percent or  
sample)<sup>1</sup>

	Geographic areas	Description
STF 4 (Sample)	A In MA's: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's	
	B State (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, all county subdivisions in New England MA's, State parts of American Indian areas, and Alaska Native areas	Over 8,500 cells/items of sample population and housing characteristics for each geographic area. Each of the STF 4 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin.
	C U.S., regions, divisions, States (including urban and rural and metropolitan and nonmetropolitan components), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	

**Note: STF 420 Place of Work 20 Destinations File.** This is a new file for 1990. Comparable data were included as part of STF 4 in 1980, but for 1990 this is a separate file and must be ordered and purchased separately from STF 4. The file contains 20 place of work destinations for each county or county equivalent, minor civil division, place of 10,000 or more persons, and census tract or block numbering area. Data are also provided for each major race and for workers of Hispanic origin cross-classified by race. The geographic level of the destinations varies. A destination may be a place, county, balance of county, metropolitan area, or balance of metropolitan area.

<sup>1</sup>Similar STF's will be prepared for Puerto Rico and the U.S. Virgin Islands.

<sup>2</sup>Also available on laser disc (CD-ROM). STF 1B CD-ROM presents only part of the data for blocks and other areas in the tape file.

**Figure 4. Other 1990 Census Data Products**

<b>Title</b>	<b>Description</b>	<b>Geographic areas</b>
Subject Summary Tape Files	Various computer tape files used to produce the subject reports (1990 CP-3 and 1990 CH-3 series)	U.S., regions, divisions, States, metropolitan areas (MA's), and large counties and places
Public Law 94-171 Data File (redistricting data)	Counts by total, race, and Hispanic origin for the total population and population 18 years old and over, and counts of housing units. Available on tape, CD-ROM, and diskettes	States, counties, county subdivisions, places, census tracts/ block numbering areas (BNA's), block groups (BG's), and blocks; voting districts where States have identified them for the Census Bureau; and American Indian and Alaska Native areas
Census/ Equal Employment Opportunity (EEO) File	Sample tabulations showing detailed occupations and educational attainment data by age; cross tabulated by sex, Hispanic origin, and race. Also, supplemental files with additional tabulations are available	Counties, MA's, places of 50,000 or more inhabitants
County-to-County Migration File	Summary statistics for all intra-state county-to-county migration streams and significant inter-state county-to-county migration streams. Each record will include codes for the geographic area of destination, and selected characteristics of the persons who made up the migration stream	States, counties
Public Use Microdata Sample (PUMS) Files	Machine-readable files containing a sample of individual long-form census records showing most population and housing characteristics but with identifying information removed	
5 Percent—County Based		County groups, counties, county subdivisions, and places with 100,000 or more inhabitants
1 Percent—Metropolitan Areas (1990)		MA's and other large areas with 100,000 or more inhabitants
3 Percent—Elderly	As above, but includes only households with at least one person age 60 or more	Same as for 5-percent sample
User-Defined Areas Tabulations	A set of standard tabulations provided on printouts, tapes, or other products with maps and narrative (if requested)	User-defined areas created by aggregating census blocks
Special Tabulations	User-defined tabulations for specified geographic areas provided on printouts, tapes, or other products	User-defined areas or standard areas

# APPENDIX G. Record Layout of Machine-Readable Data Dictionary

## CONTENTS

Geographic Description.....	G-1
Table (Matrix) Description.....	G-2

This appendix provides the record layout for the machine-readable data dictionary file that accompanies each data tape. This data dictionary was developed as a "generic" dictionary that, with some programming, could be converted for use with specific software packages.

## GEOGRAPHIC DESCRIPTION

### Geographic Record 1—Field Mnemonic, Size, and Type

Position	Description
1-2	Identifier "G1" (Geographic Record 1)
3	Blank
4-11	Field mnemonic (left justified)
12	Blank
13-14	Field size (right justified)
15	Blank
16-18	Data type (left justified)
	Note: Legal entries are A, N, and A/N
19	Blank
20-24	Begin position (right justified) (Begin position in relation to the entire record)
25	Blank
26-30	Relative begin position (right justified) (Begin position in relation to the record segment)

### Example 1

```
G1 FILEID      8 A/N      1      1 0
G2      1 File Identification
```

### Example 2

```
G1 PSADC      2 A/N      289      289 0
G2 289 Political/Statistical Area Description Code
G3 289      01 State or State equivalent - no status is appended to the name
G3 289      01 of the entity in census publications and related data products
G3 289      04 Borough - county equivalent in Alaska; "Borough" is appended to
G3 289      04 to the name of the entity in census publications and related da
G3 289      04 ta products
G3 289      05 Census area - county equivalent in Alaska; "Census Area" is ap
G3 289      05 pended to the name of the entity in census publications and re
G3 289      05 lated data products
```

### Geographic Record 1—Con.

31	Blank
32	Number of implied decimals
33-80	Blank

### Geographic Record 2—Field Description

Position	Description
1-2	Identifier "G2" (Geographic Record 2)
3	Blank
4-8	Begin position (right justified) (repeat from 20-24 above)
9	Blank
10-80	Field Description (left justified)

### Geographic Record 3—Code Identification

Position	Description
1-2	Identifier "G3" (Geographic Record 3)
3	Blank
4-8	Begin position (right justified) (repeat from 20-24 in G1)
9	Blank
10-17	Codes (right justified)
18	Blank
19-80	Code identification (left justified)

### Geographic Description Examples<sup>1</sup>

Examples of the geographic records are shown below. In example 1, there are no G3 records. G3 records will appear only for fields which have code listings in the technical documentation.

<sup>1</sup>Examples are for illustrative purposes and are not specific to this STF.

## TABLE (MATRIX) DESCRIPTION

### Table Record 1—Table Number and Characteristics

Position	Description
1-2	Identifier "T1" (Table Record 1)
3	Blank
4-9	Table (matrix) number (left justified)
10	Blank
11-17	Begin position (right justified) <sup>2</sup> (Begin position in relation to the entire record)
18	Blank
19-25	Relative begin position (right justified) <sup>2</sup> (Begin position in relation to the record segment)
26	Blank
27-28	Cell size for this table (matrix) (right justified)
29	Blank
30	Number of implied decimals for cells in this table (matrix)
31	Blank
32-38	Number of cells in this table (matrix) (right justified) <sup>2</sup>
39	Blank
40-42	Number of variables (right justified)
43-80	Blank

### Table Record 2—Table Title

Position	Description
1-2	Identifier "T2" (Table Record 2)
3	Blank
4-9	Table (matrix) number (left justified)
10	Blank
11-80	Table (matrix) title (left justified)

### Table Record 3—Universe Description

Position	Description
1-2	Identifier "T3" (Table Record 3)
3	Blank

#### Example 3. Matrix Example

Sex (2) by Marital Status(5) [10]

T1 P14	4423	4423	9	0	10	2
T2 P14	SEX BY MARITAL STATUS					
T3 P14	Persons 15 years and over					
T4 P14	SEX					
T4 P14	Male					2
T4 P14	Female					
T5 P14	MARITAL STATUS					
T5 P14	Never married					5
T5 P14	Now married, except separated					
T5 P14	Separated					
T5 P14	Widowed					
T5 P14	Divorced					

<sup>1</sup>Examples are for illustrative purposes and are not specific to this STF.

<sup>2</sup>These positions have been increased to accommodate all record sizes. Previous products had less characters; future products (STF 3 PR, STF 3 VI, STF 4, etc.) will have the above structure.

### Table Record 3—Con.

4-9	Table (matrix) number (left justified)
10	Blank
11-80	Universe Description (left justified)

### Table Record 4-N—Table Variable Descriptions

Position	Description
1-2	Identifier "Tn" n= sequence number of variable in the table being described.
3	Blank
4-9	Table (matrix) number (left justified)
10	Blank
11-76	Variable name (left justified)
77	Blank
78-80	Number of categories for this variable (right justified)
Note: Subsequent "T" records with the same "n" will have the variable categories described in positions 11-80.	

### Filler Record

Position	Description
1-2	Identifier "F1" (Filler Record)
3	Blank
4-7	"FILL"
8-10	Blank
11-17	Begin Position (right justified) (Begin position in relation to the entire record) <sup>2</sup>
18	Blank
19-25	Relative Begin Position (right justified) (Begin position in relation to the record segment) <sup>2</sup>
26	Blank
27-30	Total number of "FILL" blanks
31-80	Blank

### Matrix Example<sup>1</sup>

See example 3 below.

# APPENDIX H. Code Lists

These code lists apply to subject characteristics that the Census Bureau will include in its standard 1990 census data products. However, not all code lists may be applicable for this file.

## CONTENTS

Ancestry .....	H-1
Group Quarters .....	H-17
Hispanic Origin .....	H-22
Industry .....	H-24
Language .....	H-30
Occupation .....	H-37
Place of Birth .....	H-50
Race .....	H-54

## ANCESTRY

This section contains the code list for ancestry categories. Each person enumerated in the census had the opportunity to enter two distinct ancestry identities which indicated his or her ethnic origin. Each entry received one of the unique three-digit codes listed below. All codes are listed below. However, not all ancestry entries are listed. The ancestry codes can be aggregated to create commonly recognized national groupings. For example, the code for Walloon can be collapsed with other "Belgian" entries to form a national grouping representative of an area in Europe. National groupings can also be collapsed to represent continental areas. For example, Belgium can be added to France and other European clusters to form a representation of that continent. "n.e.c." is the abbreviation for not elsewhere classified.

000-099	WESTERN EUROPE (EXCEPT SPAIN)	000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
000-001	ALSATIAN	011-014	BRITISH
000-001	Alsace Lorraine	011	BRITISH
		011	Great Britain
002	ANDORRAN	011	United Kingdom
002	Andorra	012	BRITISH ISLES
		013	CHANNEL ISLANDER
003-004	AUSTRIAN	013	Guernsey Islander
003	AUSTRIAN	013	Jersey Islander
003	Austria	014	GIBRALTAR
004	TIROL		
004	Tirol	015	CORNISH
		015	Cornwall
005-007	BASQUE	016	CORSICAN
005	BASQUE	016	Corsica
005	Euskalduna		
005	Euzkadi	017-019	CYPRIOT
006	FRENCH BASQUE	017	CYPRIOT
007	SPANISH BASQUE	017	Cyprus
007	Vasco	018	GREEK CYPRIOTE
		019	TURKISH CYPRIOTE
008-010	BELGIAN		
008	BELGIAN	020	DANISH
008	Belgium	020	Denmark
009	FLEMISH		
009	Flanders	021	DUTCH
009	Fleming	021	Holland
009	Vlaamand	021	Netherlands
010	WALLOON		

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.	000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
022	ENGLISH	046-048	GREEK
022	Anglican	046	GREEK
022	England	046	Greece
022	Mayflower	047	CRETAN
		048	CYCLADES
023	FAEROE ISLANDER	048	Dodecanese Islander
023	Faeroe Islands	048	Peloponnesian
024-025	FINNISH	049	ICELANDER
024	FINNISH	049	Iceland
024	Finland		
025	KARELIAN	050	IRISH
		050	Black Irish
026-027	FRENCH	050	Clare
026	FRENCH	050	Cork
026	France	050	Donegal
026	Gascon	050	Dubliner
026	Huguenot	050	Eire
026	Normandy	050	Galway
027	LORRAINE	050	Ireland
		050	Irish Free State
028	BRETON	050	Kerry
028	Breizh	050	Kildare
028	Bretagne	050	Kilkenny
028	Brittany	050	Laoighis
		050	Leitrim
029	FRISIAN	050	Leix
029	Friesian Islands	050	Limerick
		050	Longford
030-031	FRIULIAN	050	Louth
030	FRIULIAN	050	Mayo
030	Friuli	050	Meath
030	Furian	050	Monaghan
031	LADIN	050	Offaly
		050	Roscommon
032-045	GERMAN	050	Sligo
032	GERMAN	050	Tipperary
032	Germany	050	Waterford
033	BAVARIA	050	Westmeath
034	BERLIN	050	Wexford
035	HAMBURG	050	Wicklow
036	HANNOVER		
037	HESSIAN	051-074	ITALIAN
038	LUBECKER	051	ITALIAN
039	POMERANIAN	051	Istria
040	PRUSSIAN	051	Italy
041	SAXON	052	TRIESTE
042	SUDETENLANDER	053	ABRUZZI
043	WESTPHALIAN	054	APULIAN
044	EAST GERMAN	054	Apulia
045	WEST GERMAN	056	BASILICATA
045	Palatinate	056	Lucania
045	Rhineland	056	CALABRIAN
		057	AMALFIN
		057	Campania



000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.	000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
058	EMILIA ROMAGNA	082	NORWEGIAN
059	ROME	082	Jan Meyen Islander
059	Lazio	082	Norway
059	Vatican City	082	Spitsbergen
060	LIGURIAN	082	Svalbard Islander
061	LOMBARDIAN		
062	MARCHE	083	OCCITAN
063	MOLISE	083	Provence
064	NEAPOLITAN		
065	PIEDMONTESE	084-086	PORTUGUESE
066	PUGLIA	084	PORTUGUESE
067	SARDINIAN	084	Lusitania
068	SICILIAN	084	Luso
068	Sicily	084	Portugal
069	TOSCANA	085	AZORES ISLANDER
069	Tuscany	086	MADEIRA ISLANDER
070	TRENTINO		
071	UMBRIAN	087	SCOTCH-IRISH
072	VALLE DAOST	087	Scot-Irish
073	VENETIAN		
073	Venezia Giulia	088	SCOTTISH
074	SAN MARINO	088	Orkney Islander
		088	Pict
075	LAPP	088	Scot
075	Lapland	088	Scotland
075	Samelot	088	Shetland Islander
076	LIECHTENSTEINER	089-090	SWEDISH
076	Liechtenstein	089	SWEDISH
		089	Sweden
077	LUXEMBURGER	090	ALAND ISLANDER
077	Luxemburg		
		091-096	SWISS
078	MALTESE	091	SWISS
078	Gozo	091	Switzerland
078	Malta	092	SUISSE
		093	SWITZER
079	MANX	093-094	Schweiz
079	Isle of Man	095	ROMANSCH
		096	SUISSE ROMANE
080	MONEGASQUE	096	Ticino
080	Monaco		
		097	WELSH
081	NORTH IRISH	097	Wales
081	Antrim		
081	Armagh	098	SCANDINAVIAN
081	Derry	098	Nordic
081	Down	098	Scandinavia
081	Fermanagh		
081	Londonderry	099	CELTIC
081	Northern Ireland	099	Celtic
081	Orangeman		
081	Tyrone		
081	Ulster		

100-180	EASTERN EUROPE AND SOVIET UNION	100-180	EASTERN EUROPE AND SOVIET UNION—Con.
100	ALBANIAN	115-116	ESTONIAN
100	Albania	115	ESTONIAN
100	Arberesh	115	Estonia
100	Gheg	116	LIVONIAN
100	Italo Albanian		
100	Kosovo	117-119	FINNO UGRIAN
100	Tosc	117	FINNO UGRIAN
		117	Komi
101	AZERBAIJANI	117	Mari
101	Adjerbaijani	117	Udmurt
101	Azerbaidzhan	118	MORDOVIAN
101	Azeri	119	VOYTAK
102	BELORUSSIAN	120-121	GRUZIJA
102	Byelorussian	120-121	Gruzins
103	BULGARIAN	122-123	GERMAN FROM RUSSIA
103	Bulgaria	122	GERMAN FROM RUSSIA
103	Bulgaro Macedonian	123	VOLGA
103	Eastern Rumelian	123	Black Sea German
		123	Volhynian German
104-105	CARPATHO RUSYN		
104	CARPATHO RUSYN	124	ROM
104	Carpatho Rus	124	Boyash
104	Carpatho Russian	124	Cali
104	Carpatho Ruthenian	124	Dom
105	CARPATHIAN	124	Gitanos
		124	Gypsy
106	RUSYN	124	Kalderash
106	Rus	124	Luri
106	Rusin	124	Manouche
106	Rusnak	124	Nat
		124	Romnichal
107	RUTHENIAN	124	Senti
107	Ruthenia	124	Xoraxaya
108	COSSACK	125-126	HUNGARIAN
108	Don Cossack	125	HUNGARIAN
108	Orenburg Cossack	125	Hungary
108	Terek Cossack	125	Szekler
108	Ural Cossack	126	MAGYAR
109-110	CROATIAN	127	KALMYK
109	Croatia	127	Kalmuck
109	Dalmatian		
109-110	Zadar	128	LATVIAN
		128	Latvia
111-113	CZECH	128	Lettish
111	CZECH		
112	BOHEMIAN	129	LITHUANIAN
113	MORAVIAN	129	Jmoud
		129	Lithuania
114	CZECHOSLOVAKIAN		
114	Czechoslovakia	130	MACEDONIAN
114	Czechoslovakia	130	Macedonia

100-180	EASTERN EUROPE AND SOVIET UNION—Con.	100-180	EASTERN EUROPE AND SOVIET UNION—Con.
130	Slavophone	152	SERBIAN
131	MONTENEGRIN	152	Serb
131	Orna Gora	153	SLOVAK
132-141	NORTH CAUCASIAN	153	Slovakian
132	NORTH CAUCASIAN	153	Slovjak
132	Abkhazian	154-155	SLOVENE
132	Adyge	154	SLOVENE
132	Avar	154	Slovene
132	Caucasus Mountains	154	Slovenian
132	Chechen	154	Slovenski
132	Daghestan	155	SORBIAN/WEND
132	Darghinian	155	Lusatian Serb
132	Gortsy	155	Sorb
132	Ingush	155	Wend
132	Kabardinian	155	Wendish
132	Lezghian		
132	Tavlintsy	156-163	SOVIET TURKIC
133	NORTH CAUCASIAN TURKIC	156	SOVIET TURKIC
133	Adzharian	156	Soviet Turk
133	Balkar	157	BASHKIR
133	Cherkess	158	CHUVASH
133	Circassian	159	GAGAUZ
133	Karachay	160	MESKNETIAN
133-139	Kumyk	161-162	TUVINIAN
140-141	OSSETIAN	163	YAKUT
142-143	POLISH	164	SOVIET UNION
142	POLISH	164	Union of Soviet Socialist Republics
142	Gorali		
142	Masurian	165-167	TATAR
142	Poland	165	TATAR
142	Polonia	165	Crimean Tatar
142	Polska	165	Kazan Tatar
143	KASHUBIAN	165	Nogay Tatar
		165	Polish Tatar
144-147	ROMANIAN	165-166	Volga Tatar
144	ROMANIAN	167	SOVIET CENTRAL ASIA
144	Romania	167	Kurile Islander
144	Transylvania	167	Sakhalin Islander
145	BESSARABIAN	167	Siberian
145	Dobruja		
146	MOLDAVIAN	168-170	TURKESTANI
147	WALLACHIAN	168	TURKESTANI
147	Vlach	168	Karakalpak
		168	Kazak
148-151	RUSSIAN	168	Kirghiz
148	RUSSIAN	168	Tadzhik
148	Black Russian	168	Turcoman
148	Great Russian	168	Turkestan
148	Red Russian	168	Turkmen
148	Rossiya	168	Turkoman
148-149	Russia	168	Ulgar
150-151	MUSCOVITE	169-170	UZBEG

100-180	EASTERN EUROPE AND SOVIET UNION—Con.	200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.
171-174	UKRAINIAN	201	ANDALUSIAN
171	UKRAINIAN	202	ASTURIAN
171	Little Russian	203	CASTILLIAN
171	Malorussian		
171	Ukraine	204-209	CATALONIAN
172	LEMKO	204	CATALONIAN
172	Lemkian	204	Catalonia
173	BLOKO	205	BALEARIC ISLANDER
174	HUSEL	205	Mallorca
		206	GALLEGO
175	WINDISH	207	VALENCIAN
175	Prekmurje	208-209	CANARY ISLANDER
175	Windisch		
		210-218	MEXICAN
176-177	YUGOSLAVIAN	210	MEXICAN
176	YUGOSLAVIAN	211	MEXICAN AMERICAN
176	Jugoslavia	212	MEXICANO
177	HERZEGOVINIAN	213	CHICANO
177	Bosanci	214-217	LA RAZA
177	Bosnian Muslim	218	MEXICAN STATE
177	Bosnjaci	218	Aguascalientes
		218	Baja California
178-180	SLAVIC	218	Campeche
178	SLAVIC	218	Chiapas
178	Slav	218	Chihuahua
179-180	SLAVONIAN	218	Coahuila
		218	Colima
181-199	EUROPE, N.E.C.	218	Distrito Federal
181	EUROPE, N.E.C.	218	Durango
181	Central European	218	Guanajuato
181-182	Middle European	218	Guerrero
183	NORTHERN EUROPEAN	218	Hidalgo
183-184	North Europe	218	Jalisco
185	SOUTHERN EUROPEAN	218	Mexico
185-186	South Europe	218	Michoacan
187	WESTERN EUROPEAN	218	Morelos
187-189	West Europe	218	Nayarit
190	EASTERN EUROPEAN	218	Nuevo Leon
190	Byzantine	218	Oaxaca
190	East Europe	218	Puebla
191-192	BUKOVINA	218	Queretaro
193-194	SILESIAN	218	Quintana Roo
195	EUROPEAN	218	San Luis Potosi
196	GALICIAN	218	Sinaloa
196-199	Galkia	218	Sonora
		218	Tabasco
200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)	218	Tamaulipas
		218	Tlaxcala
200-203	SPANIARD	218	Vera Cruz
200	SPANIARD	218	Yucatan
200	Espanola	218	Zacatecas
200	Iberian		
200	Spain	219-221	COSTA RICAN
		219	Costa Rica
		219-221	Costarricense

200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.	200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.
222	GUATEMALAN	249	Sudamerica
222	Guatemala	250-260	LATIN AMERICAN
223	HONDURAN	250	LATIN AMERICAN
223	Honduras	250	America Latina
224	NICARAGUAN	250	Latinoamericana
224	Nicaragua	251	LATIN
225	PANAMANIAN	252-260	LATINO
225	Panama	261-270	PUERTO RICAN
226	SALVADORAN	261	Boricua
226	El Salvador	261	Borinquena
226	Salvadorian	261	New York Puerto Rican
226		261	Puerto Rico
226		261-270	Puertorriqueno
227-228	CENTRAL AMERICAN	271-274	CUBAN
227-228	Central America	271	Cuba
229-230	CANAL ZONE	271	Cubana
231	ARGENTINEAN	271-274	Guajiro
231	Argentina	275	DOMINICAN
232	BOLIVIAN	275	Dominican Republic
232	Bolivia	275	Dominicana
233	CHILEAN	275	Santo Domingo
233	Chile	276-290	HISPANIC
234	COLOMBIAN	276-290	Hispano
234	Antiochio	291-299	SPANISH
234	Colombia	292	CALIFORNIO
235	ECUADORIAN	293	TEJANO
235	Ecuador	293	Tejana
235	Galapagos Islander	294	NUEVO MEXICANO
236	PARAGUAYAN	295-299	SPANISH AMERICAN
236	Paraguay	300-359	WEST INDIES (EXCEPT HISPANIC)
237	PERUVIAN	300	BAHAMIAN
237	Peru	300	Bahamas
238	URUGUAYAN	301	BARBADIAN
238	Uruguay	301	Barbados
239	VENEZUELAN	302	BELIZEAN
239	Venezuela	302	Belize
240-248	CRIOLLO	302	British Honduran
240-248	Criolla	303	BERMUDAN
249	SOUTH AMERICAN	303	Bermuda
249	America Del Sur	304-307	CAYMAN ISLANDER
		308-309	JAMAICAN
		308-309	Jamaica

<b>300-359</b>	<b>WEST INDIES (EXCEPT HISPANIC)—Con.</b>	<b>300-359</b>	<b>WEST INDIES (EXCEPT HISPANIC)—Con.</b>
310-313	DUTCH WEST INDIES	332-334	FRENCH WEST INDIES
310	DUTCH WEST INDIES	332	FRENCH WEST INDIES
310	Black Dutch	332	French West Indian
310	Netherlands Antilles	333	GUADELOUPE ISLANDER
311	ARUBA ISLANDER	333	Martinicois
311	Bonaire Islander	333	Martinique Islander
311	Curacao Islander	334	CAYENNE
312-313	ST. MAARTEN ISLANDER	334	French Gulana
312	Saba Islander	334	French Gulanese
312-313	St. Eustatius Islander	334	Guyane
314-316	TRINIDADIAN TOBAGONIAN	335	WEST INDIAN
314	TRINIDADIAN TOBAGONIAN	335	West Indies
315	TRINIDADIAN	335	Arawak
316	TOBAGONIAN	335	Caribs
317-320	U.S. VIRGIN ISLANDER	335	Caribbean
317	U.S. VIRGIN ISLANDER	335	Garifuna
318	ST. CROIX ISLANDER	336-359	HAITIAN
318	Crucian	336-359	Haiti
318	Santa Cruz	360-399	CENTRAL AND SOUTH AMERICA (EXCEPT HISPANIC)
319	ST. JOHN ISLANDER	360-364	BRAZILIAN
320	ST. THOMAS ISLANDER	360-364	Brazil
321-331	BRITISH WEST INDIES	365-369	SAN ANDRES
321	BRITISH VIRGIN ISLANDER	370-374	GUYANESE
321	Tortolan	370	British Gulana
321	Virgin Gorda	370-374	Guyana
321	Aneгада	375-379	PROVIDENCIA
321	Jost Van Dyke	380-399	SURINAM
321	Peter and Norman	380	Dutch Gulana
322	BRITISH WEST INDIAN	380-399	Netherlands Gulana
322	British West Indies	400-499	NORTH AFRICA AND SOUTHWEST ASIA
323	TURKS AND CAICOS ISLANDER	400-401	ALGERIAN
324	ANGUILLA ISLANDER	400-401	Algeria
325	ANTIGUA AND BARBUDA	402-403	EGYPTIAN
325	Antigua	402	Copt
325	Barbuda	402	Egypt
326	Redonda Islander	402-403	Fellahin
326	MONTSERRAT ISLANDER	404-405	LIBYAN
327	KITTS-NEVIS ISLANDER	404-405	Libya
327	St. Christopher Islander	406-407	MOROCCAN
327	Sombrero Islander	406	MOROCCAN
327	St. Kitts	406	Moor
327	Nevis	407	IFNI
328	DOMINICA ISLANDER		
329	GRENADIAN		
329	Grenada Islander		
330	VINCENT-GRENADINE ISLANDER		
330	St. Vincent Island		
330	Vincetian		
330	Grenadines Islander		
331	ST. LUCIA ISLANDER		

400-499	NORTH AFRICA AND SOUTHWEST ASIA—Con.	400-499	NORTH AFRICA AND SOUTHWEST ASIA—Con.
406-410	TUNISIAN	435	YEMENI
406-410	Tunisia	435	Yemen Arab Republic
411	NORTH AFRICAN	436-441	OMANI
412	ALHUCEMAS	436	OMANI
412	Ceuta	437	MUSCAT
412	Chafarinas	438	TRUCIAL STATES
412	Mellila	438	Trucial Oman
413	BERBER	439-440	QATAR
414	RIO DE ORO	441	BEDOUIN
414	Saguia El Hamra	442-464	KURDISH
415	BAHRAINI	442-443	KURDISH
415	Bahrain	444-464	KURIA MURIA ISLANDER
416	IRANIAN	465-469	PALESTINIAN
416	Iran	465	PALESTINIAN
416	Parsi	466	GAZA STRIP
416	Persia	467-469	WEST BANK
417-418	IRAQI	470-479	SOUTH YEMEN
417-418	Iraq	470	SOUTH YEMEN
419-420	ISRAELI	470	Democratic Republic of Yemen
419-420	Israel	471-479	ADEN
421-422	JORDANIAN	480-481	UNITED ARAB EMIRATES
421	JORDANIAN	480	Abu Dhabi
421	Hashemite	480	Ajman
421	Jordan	480	Dubai
422	TRANSJORDAN	480	Fujairah
423-424	KUWAITI	480	Ras Al Kaimah
423-424	Kuwait	480	Sharjah
425-426	LEBANESE	480-481	Umm Al Qaiwain
425	Lebanon	482-489	ASSYRIAN
425-426	Maronite	482	Aramean
427-428	SAUDI ARABIAN	482	Assyria
427-428	Saudi Arabia	482	Chaldean
429-430	SYRIAN	482	Chaldo
429	Djebel Druze	482	Jacobite
429	Latakia	482	Kaldany
429-430	Syria	482	Kaldu
431-433	ARMENIAN	482	Kasodem
431-433	Armenia	482	Kasdu
434	TURKISH	482	Neatorian
434	Turkey	482-489	Telkeffee
		490-494	MIDEAST
		490-494	Middle Eastern
		495-499	ARAB
		495	ARAB
		495	Arabia
		496-499	ARABIC

<b>500-599</b>	<b>SUBSAHARAN AFRICA</b>
500-501	ANGOLAN
500	Angola
500-501	Cabinda
502-503	BENIN
502	Dahomey
502-503	Fon
504-505	BOTSWANA
504-505	Bechuana
506-507	BURUNDIAN
506-507	Urundi
508-509	CAMEROONIAN
508	Cameroon
508-509	Fako
510-511	CAPE VERDEAN
510	Brava
510-511	Cape Verde Islander
512	CENTRAL AFRICAN REPUBLIC
512	Ubangi Shari
513-514	CHADIAN
513-514	Chad
515-518	CONGOLESE
515	CONGOLESE
516-518	CONGO BRAZZAVILLE
519	DJIBOUTI
519	Afars And Issas
519	Jibuti
520-521	EQUATORIAL GUINEA
520	EQUATORIAL GUINEA
520	Rio Muni
521	CORSICO ISLANDER
521	Annobon Islander
521	Bioko Islander
521	Elobels Islander
521	Fernando Po Islander
522-524	ETHIOPIAN
522	ETHIOPIAN
522	Abyssinia
522	Ethiopia
523-524	ERITREAN
525-526	GABONESE
525-526	Gabon
527-528	GAMBIAN
527-528	Gambia

<b>500-599</b>	<b>SUBSAHARAN AFRICA—Con.</b>
529	GHANIAN
529	Ashanti
529	Ghana
529	Gold Coast
529	TWI
530	GUINEAN
530	Guinea
531	GUINEA BISSAU
532-533	IVORY COAST
534-537	KENYAN
534-537	Kenya
538-540	LESOTHO
538-540	Basuto
541-542	LIBERIAN
541-542	Liberia
543-544	MADAGASCAN
543-544	Madagascar
545	MALAWIAN
545	Malawi
546	MALIAN
546	Mali
547-548	MAURITANIAN
547-548	Mauritania
549	MOZAMBICAN
549	Mozambique
550	NAMIBIAN
550	Namibia
551-552	NIGER
553-560	NIGERIAN
553	NIGERIAN
553	Nigeria
554	FULAH
554	Fulani
555	HAUSA
556	IBO
557	TIV
558-560	YORUBA
561-563	RWANDAN
561-563	Rwanda



<b>500-599</b>	<b>SUBSAHARAN AFRICA—Con.</b>	<b>500-599</b>	<b>SUBSAHARAN AFRICA—Con.</b>
564-565	SENEGALESE	591	Zaire
564	Dakar	592	ZAMBIAN
564-565	Senegal	592	Zambia
566-567	SIERRA LEONEAN	593	ZIMBABWEAN
566-567	Sierra Leone	593	Rhodesia
568	SOMALIAN	593	Zimbabwe
568	Somali Republic		
568	Somalia	594-595	AFRICA ISLANDS (EXCEPT MADAGASCAR)
569	SWAZILAND	594	AFRICA ISLANDS
570-573	SOUTH AFRICAN	594	Comoros Islander
570	SOUTH AFRICAN	594	Principe Islander
571	UNION OF SOUTH AFRICA	594	Reunion Islander
571	Orange Free State	594	Sao Tome Islander
571	Pretoria	594	Seychelles Islander
571	Transkei	594	St. Helena Islander
571	Transvaal	594	St. Pierre Islander
572	AFRIKANER	594	Tristan De Cunha Islander
572	Boer	595	MAURITIAN
573	NATALIAN	595	Mauritius Islander
574-575	ZULU	596-599	SUBSAHARAN AFRICAN, N.E.C.
574-575	Zululand	596	CENTRAL AFRICAN
576-581	SUDANESE	596	Central Africa
576	SUDANESE	596	Middle Congo
576	Sudan	597	EAST AFRICAN
577	DINKA	597	East Africa
578	NUER	597	Galla
579	FUR	597	Kikuyu
579	Darfur	597	Masai
580-581	BAGGARA	598	WEST AFRICAN
582-585	TANZANIAN	598	West Africa
582	TANZANIAN	599	AFRICAN
582	Tanzania	599	Africa
583	TANGANYIKAN	600-699	SOUTH ASIA
584-585	ZANZIBAR ISLANDER	600-602	AFGHANISTAN
586-587	TOGO	600	AFGHANISTAN
586-587	Togoland	601	BALUCHISTAN
588	UGANDAN	602	PATHAN
588	Lugbara	603-606	BANGLADESHI
588	Uganda	603	Bangladesh
589-590	UPPER VOLTAN	603-606	East Pakistan
589	UPPER VOLTAN	607-608	BHUTANESE
590	VOLTA	607-608	Bhotan
591	ZAIRIAN	609-614	NEPALI
591	Belgian Congo	609-614	Nepal
591	Congo Kinshasa	615-679	ASIAN INDIAN
		615	ASIAN INDIAN
		615	Behar

<b>600-699</b>	<b>SOUTH ASIA—Con.</b>	<b>700-799</b>	<b>OTHER ASIA—Con.</b>
615	Dravidian	703-705	CAMBODIAN
615	Hindu	703	CAMBODIAN
615	Indo Aryan	703	Cambodia
615	Sikh	703	Kampuchea
616-617	KASHMIR	704-705	KHMER
618-619	BENGALI		
620-621	EAST INDIAN	706-711	CHINESE
622	ANDAMAN ISLANDER	706	CHINESE
622-623	Nocobar Islander	706	China
624-625	ANDHRA PRADESH	706	Jehol
626-627	ASSAMESE	706	Sino Chinese
628-629	GOANESE	706	Yao
630-631	GUJARATI	707	CANTONESE
632-633	KARNATAKAN	708	MANCHURIA
634-635	KERALAN	709-711	MANDARIN
636-637	MADHYA PRADESH		
638-639	MAHARASHTRAN	712-713	MONGOLIAN
640-641	MADRAS	712	Buriat
642-643	MYSORE	712-713	Mongolia
644-645	NAGALAND		
646-647	ORISSA	714-715	TIBETAN
648-649	PONDICHERRY	714-715	Tibet
650-651	PUNJAB		
652-653	RAJASTHAN	716-717	HONG KONG
654-655	SIKKIM	716	Hong Kong Chinese
656-657	TAMIL NADU	716	Eastern Archipelago
658-674	UTTAR PRADESH	716-717	Riau Islander
675-679	EAST INDIES		
		718-719	MACAO
680-689	PAKISTANI		
680	Jammu	720-729	FILIPINO
680	Pakistan	720	Cebuanos
680	Sind	720	Philippines
680-689	West Pakistan	720-729	Tagalog
690-694	SRI LANKAN	730-739	INDONESIAN
690	SRI LANKAN	730	INDONESIAN
690	Ceylon	730	Ascension Islander
690	Sri Lanka	730	Bangka
691	SINGHALESE	730	Billiton
692-694	VEDDAH	730	Celebes Islander
		730	Dutch East Indian
695-699	MALDIVIAN	730	Indonesia
695	Kampuchean	730	Molucca Islander
695-699	Maldivian Islander	730	Portuguese Timor
		730	Spice Islander
<b>700-799</b>	<b>OTHER ASIA</b>	730-731	Sulawesi Islander
700-702	BURMESE	732-733	BORNEO
700	BURMESE	734-735	JAVA
700	Cachin	736-739	SUMATRA
700	Karen		
700	Mon	740-745	JAPANESE
700-701	Palaung	740	JAPANESE
702	SHAN	740	Japan
		740	Nipponese
		741	ISSEI

**700-799 OTHER ASIA—Con.**

742 NISEI  
 743 SANSEI  
 744 YONSEI  
 745 GONSEI

746-747 RYUKYU ISLANDER  
 746-747 Northern Ryukyu Islander

748-749 OKINAWAN  
 748-749 Okinawa

750-764 KOREAN  
 750 Chosen  
 750-764 Korea

765-767 LAOTIAN  
 765 LAOTIAN  
 765 Lao  
 765 Laos  
 766-767 MEQ

768-769 HMONG  
 768 Hmongtana  
 768 Laohmong  
 768-769 Mong

770 MALAYSIAN  
 770 Malaysia  
 770 Sakai  
 770 Semang  
 770 Senoi

771-773 NORTH BORNEO  
 771 Brunei  
 771 Sabah  
 771-773 Sarawak

774-775 SINGAPOREAN  
 774-775 Singapore

776-781 THAI  
 776 THAI  
 776 Siam  
 776 Thailand  
 777 BLACK THAI  
 777 Thai Dam  
 778-781 WESTERN LAO

782 TAIWANESE  
 782 Taiwan

783-784 FORMOSAN  
 783-784 Formosa

**700-799 OTHER ASIA—Cont.**

785-789 VIETNAMESE  
 785 VIETNAMESE  
 785 Anam  
 785 Vietnam  
 786 KATU  
 787 MA  
 788-789 MNONG

790-791 MONTAGNARD  
 790-791 Cham

792 INDO CHINESE  
 792 Indochina

793 EURASIAN  
 793 Indo-European

794 AMERASIAN

795-799 ASIAN  
 795 Asia  
 795-799 Orient

**800-899 PACIFIC**

800-802 AUSTRALIAN  
 800 AUSTRALIAN  
 800 Australia  
 800 New South Wales  
 800 Northern Territory  
 800 Queensland  
 800 Victoria  
 801 TASMANIAN  
 802 AUSTRALIAN ABORIGINE

803-807 NEW ZEALANDER  
 803-807 New Zealand

808-810 POLYNESIAN  
 808 POLYNESIAN  
 808 Norfolk Island  
 809 KAPINGAMARANGAN  
 809 Nukuoroan  
 810 MAORI

811-813 HAWAIIAN  
 811 HAWAIIAN  
 811 Mixed Hawaiian  
 811-812 Native Hawaiian  
 813 PART HAWAIIAN

814, 861 SAMOAN  
 814 SAMOAN  
 814 Samoa  
 861 PART-SAMOAN

<b>800-899</b>	<b>PACIFIC—Con.</b>	<b>800-899</b>	<b>PACIFIC—Con.</b>
815	TONGAN	830	Satawalese
815	Tonga	830	Ulithian
		830	Woleaian
816	TOKELADAN		
816	Tokelau Islander	831	KIRIBATESE
		831	Gilbertese
817	COOK ISLANDER		
818	TAHITIAN	832-833	NAURUAN
818	French Polynesia	832	NAURUAN
818	Society Islander	833	TARAWA ISLANDER
819	NIUEAN	834-839	TINIAN
820	MICRONESIAN	840	MELANESIAN
820	Micronesia Islander		
820	U.S. Trust Territory of the Pacific	841-842	FIJIAN
		841-842	Fiji
821-822	GUAMANIAN	843-844	NEW GUINEAN
821	GUAMANIAN	843	NEW GUINEAN
821	Guam	844	PAPUAN
822	CHAMORRO ISLANDER		
823	SAIPANESE	845	SOLOMON ISLANDER
823	Northern Marianas Islander	845	British Solomons
823	Saipan Islander		
		846	NEW CALEDONIAN
824	PALAUAN		
		847-849	VANUATUAN
825	MARSHALLESE	847	New Hebrides Islander
825	Marshall Islander	847-849	Ni Vanuatu
826	KOSRAEAN	850-859	PACIFIC ISLANDER
		850	Campbell Islander
827	PONAPEAN (POHNPEIAN)	850	Christmas Islander
827	Mokilese	850	Kermadec Islander
827	Ngatikese	850	Midway Islander
827	Pingelapese	850	Phoenix Islander
		850-859	Wake Islander
828	TRUKESE (CHUUKES)	860	PACIFIC
828	Hall Islander	860	Oceania
828	Mortlockese		
828	Namanouito	861	See SAMOAN (code 814)
828	Pulapese		
828	Pulasukese	862	CHAMOLINIAN
828	Pufawatase		
828	Tamatamian		
828	Ulul	863-899	RESERVE CODE
		864	RESERVE CODE 1
829	YAPESE	865	RESERVE CODE 2
		866	RESERVE CODE 3
		867	RESERVE CODE 4
830	CAROLINIAN	868	RESERVE CODE 5
830	Eauripikese	869	RESERVE CODE 6
830	Faklan	870	RESERVE CODE 7
830	Ifalukese	871	RESERVE CODE 8
830	Lamotrekese	872	RESERVE CODE 9

800-899	PACIFIC—Con.	900-994	NORTH AMERICA (EXCEPT HISPANIC)—Con.
873	RESERVE CODE 10		
874	RESERVE CODE 11	925	ANGLO
875	RESERVE CODE 12	925	Swamp Yankee
876	RESERVE CODE 13	925-926	Wasp
877	RESERVE CODE 14	927	APPALACHIAN
878	RESERVE CODE 15	927	Hillbilly
879	RESERVE CODE 16	928	ARYAN
880	RESERVE CODE 17		
881	RESERVE CODE 18	928	PENNSYLVANIA GERMAN
882	RESERVE CODE 19	928	Amish
883	RESERVE CODE 20	929	Pennsylvania Dutch
884	RESERVE CODE 21	929	Mennonite
885	RESERVE CODE 22	929	Hutterite
886	RESERVE CODE 23		
887	RESERVE CODE 24	930	GREENLANDER
888	RESERVE CODE 25		
889	RESERVE CODE 26	931-934	CANADIAN
890	RESERVE CODE 27	931	CANADIAN
891	RESERVE CODE 28	931	Albertan
892	RESERVE CODE 29	931	British Columbia
893	RESERVE CODE 30	931	Canada
894	RESERVE CODE 31	931	Labrador
895	RESERVE CODE 32	931	Manitoba
896	RESERVE CODE 33	931	New Brunswick
897	RESERVE CODE 34	931	Ontario
898	RESERVE CODE 35	931	Prince Edward Islander
899	RESERVE CODE 36	931	Saskatchewan
		931-932	Yukon
900-994	NORTH AMERICA (EXCEPT HISPANIC)	933	NEWFOUNDLAND
		934	NOVA SCOTIA
900-912	AFRICAN AMERICAN	935	FRENCH CANADIAN
900	AFRO AMERICAN	935	Canadien
901	AFRO	935	Franco American
902	AFRICAN AMERICAN	935	Quebec
903	BLACK	935	Quebecois
904	NEGRO		
905	NONWHITE	936-938	ACADIAN/CAJUN
906	COLORED	936	ACADIAN
906	Bilalian	936	Acadia
906	Nigritian	937-938	CAJUN
907	CREOLE		
908-912	MULATTO	939	AMERICAN
913-923	NATIVE AMERICAN	940-992	UNITED STATES
913	CENTRAL AMERICAN INDIAN	940	UNITED STATES
914-918	SOUTH AMERICAN INDIAN	941	ALABAMA
919	CHEROKEE	942	ALASKA
920	AMERICAN INDIAN	943	ARIZONA
921	ALEUT	944	ARKANSAS
922	ESKIMO	945	CALIFORNIA
923	INUIT	946	COLORADO
		947	CONNECTICUT
924-928	WHITE	948	DISTRICT OF COLUMBIA
924	WHITE	949	DELAWARE
924	Caucasian	950	FLORIDA

900-994	NORTH AMERICA (EXCEPT HISPANIC)—Con.	995-999	RESIDUAL AND NO RESPONSE
951	IDAHO	995	MIXTURE
952	ILLINOIS	996-997	UNCODABLE ENTRIES
953	INDIANA	998	OTHER RESPONSES
954	IOWA	998	Adventist
955	KANSAS	998	Agnostic
956	KENTUCKY	998	Apostolic
957	LOUISIANA	998	Ashkenazim Jew
958	MAINE	998	Atheist
959	MARYLAND	998	Bahai
960	MASSACHUSETTS	998	Baptist
961	MICHIGAN	998	Brethren
962	MINNESOTA	998	Buddhist
963	MISSISSIPPI	998	Catholic
964	MISSOURI	998	Christian
965	MONTANA	998	Christian Scientist
966	NEBRASKA	998	Congregationalist
967	NEVADA	998	Episcopal
968	NEW HAMPSHIRE	998	Evangelist
969	NEW JERSEY	998	Hebrew
970	NEW MEXICO	998	Holiness
971	NEW YORK	998	Islam
972	NORTH CAROLINA	998	Jain
973	NORTH DAKOTA	998	Jehovah's Witnesses
974-975	OHIO	998	Jewish
976	OKLAHOMA	998	Latter Day Saints
977	OREGON	998	Lutheran
978	PENNSYLVANIA	998	Methodist
979	RHODE ISLAND	998	Mormon
980	SOUTH CAROLINA	998	Muslim
981	SOUTH DAKOTA	998	Orthodox
982	TENNESSEE	998	Pentecostal
983	TEXAS	998	Presbyterian
984	UTAH	998	Protestant
985	VERMONT	998	Quaker
986	VIRGINIA	998	Roman Catholic
987	WASHINGTON	998	Salvation Army
988	WEST VIRGINIA	998	Sephardic
989	WISCONSIN	998	Seventh Day Adventist
990	WYOMING	998	Shlite
991-992	GEORGIA	998	Unitarian
993	SOUTHERNER	998	Yiddish
994	NORTH AMERICAN	998	Zoroastrian
994	North America	998	NOT REPORTED

## GROUP QUARTERS

This section contains the alphabetical code list for group quarters. The group quarters code list was used by special place prelist enumerators to classify each type of group quarters. Each group quarters code is a two-digit number followed by either an "I" (institutional) or "N" (noninstitutional) suffix. The group quarters codes listed in the second column are for staff residing in group quarters.

GG codes	Staff residents GG codes	
87-N	--	<b>A. College Quarters Off Campus</b> (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
		<b>B. Correctional Institutions</b>
22-I	22-N	1. <i>Federal Detention Centers</i> : Including Park Police, Bureau of Indian Affairs, Immigration and Naturalization Service (INS) centers, INS detention centers operated within local jails, and State and Federal prisons. INS detention centers also include INS Federal Alien Detention Facilities, INS Service Processing Centers, and INS Contract Detention Centers used to detain aliens under exclusion or deportation proceedings and aliens who require custodial departures.
21-I	21-N	2. <i>Federal Prisons</i> : Including criminally insane wards operated by a Federal prison within a mental or general hospital. If ward is not operated by a prison, code according to paragraph H4. For detention centers within Federal prisons, see B1 above.
23-I	23-N	3. <i>Halfway Houses</i> : Operated for correctional purposes, including probation and restitution centers, prerelease centers, and community-residential treatment centers.
27-I	27-N	4. <i>Local (County/City) Jails and Other Local Confinement Facilities</i> : Including work farms used to hold persons awaiting trial or serving time on relatively short sentences (usually of a year or less), and jails run by private businesses under contract.
95-I	95-N	5. <i>Military Stockades, Jails</i>
28-I	28-N	6. <i>Police Lockups</i> : Temporary-holding facilities or other facilities that hold persons only if they have not been formally charged in court (usually detained less than 48 hours).
24-I	24-N	7. <i>State Prisons</i> : Prisons run by private businesses (under contract); including criminally insane wards operated by a State prison within a mental or general hospital. If ward is not operated by a prison, code according to paragraph H4.
20-I	20-N	8. <i>Other Types of Correctional Institutions</i> : Including private correctional facilities and correctional facilities specifically for alcohol/drug abuse. (Use only as a last resort if no other type code applies.)
91-N	--	<b>C. Crews of Civilian Vessels</b>
		<b>D. Dormitories</b>
92-N	--	1. <i>Agriculture Workers' Dormitories on Farms</i> : Including migratory farm workers' camps on farms, bunkhouses for ranch hands, and other dormitories on farms including those on "tree farms."
87-N	--	2. <i>College Student Dormitories, and Fraternity and Sorority Houses (on campus)</i> : Including residential quarters for those in religious orders.
86-N	--	3. <i>Dormitories for Nurses and Interns in General and Military Hospitals</i>
97-N	--	4. <i>Military Quarters on Base</i> : Including barracks, bachelor officers quarters, unaccompanied officer personnel housing, unaccompanied enlisted personnel housing, and similar noninstitutional group living quarters for military personnel.
93-N	--	5. <i>Other Workers' Dormitories</i> : Including logging camps, construction workers' camps, fire-house dormitories, job-training camps, energy enclave (Alaska only), Alaskan pipeline camps, nonfarm migratory workers' camps, such as workers who lay oil and gas pipelines.
		6. <i>Runaway, Neglected, and Homeless Children</i> : Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.

GQ codes	Staff residents GQ codes
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**E. Elderly:** Skilled nursing facilities, intermediate care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, nursing, convalescent, and rest homes including soldiers', sailors', veterans', and fraternal or religious homes for the aged, with or without nursing care.

NOTE: Do not include dormitories for nurses' and interns'; see paragraph D3.

**1. Public Ownership**

- |      |      |  |
|------|------|--|
| 62-I | 62-N | a. Federal ownership: Including Veterans' Administration, domiciliary homes, and U.S. Naval homes.                   |
| 63-I | 63-N | b. State ownership   |
| 64-I | 64-N | c. County or city ownership  |
| 65-I | 65-N | d. Don't know if Federal, State, or county-city ownership (Use only as a last resort if no other type code applies.) |

**2. Private Ownership**

- |      |      |   |
|------|------|---|
| 66-I | 66-N | a. Private not-for-profit   |
| 67-I | 67-N | b. Private for profit   |
| 68-I | 68-N | c. Don't know if for profit or not (Use only as a last resort if no other type code applies.) |

- |      |      |  |
|------|------|--|
| 61-I | 61-N | <b>3. Don't Know if Federal, State, Local, or Private Ownership</b> (Use only as a last resort if no other type code applies.) |
|------|------|--|

**F. Emergency Shelter/Street Night Enumeration ("S-NIGHT")**

- |      |    |  |
|------|----|--|
| 82-N | -- | <b>1. Shelters for the Homeless with Sleeping Facilities:</b> Including emergency housing, missions and flophouses, Salvation Army shelters, hotels and motels charging \$12 or less a night (excluding taxes), hotels and motels used entirely for homeless persons, the group of rooms in hotels and motels used partially for the homeless, and similar places known to have persons with no usual home elsewhere who stay overnight. |
|------|----|--|

- |      |    |  |
|------|----|--|
| 83-N | -- | <b>2. Runaway, Neglected, and Homeless Children:</b> Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles. |
|------|----|--|

**3. Street Enumeration Pre-designated Sites**

- |      |    |  |
|------|----|--|
| 84-N | -- | a. Nonstructure locations, other than commerce places: Including street corners, parks, bridges, abandoned and boarded-up buildings, noncommercial campsites ("tent cities"), and similar sites. |
|------|----|--|

- |      |    |  |
|------|----|--|
| 85-N | -- | b. Commerce places: Including railroad stations, airports, bus depots, subway stations, all-night movie theaters, all-night restaurants, emergency hospital waiting rooms, and other similar pre-designated sites. |
|------|----|--|

- |      |    |  |
|------|----|--|
| 75-N | -- | <b>4. Shelters for Abused Women</b> (Shelters against domestic violence) |
|------|----|--|

**G. Group Homes:** Including those providing community-based care and supportive services such as halfway houses for the groups listed below. (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)

- |      |    |  |
|------|----|--|
| 76-N | -- | <b>1. Drug/Alcohol Abuse:</b> Including group homes, detoxification centers, quarterway houses such as residential treatment facilities that work closely with an accredited hospital, halfway houses, recovery homes for ambulatory, and mentally competent recovering alcoholics who may be re-entering the work force. (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.) |
|------|----|--|

- |      |    |  |
|------|----|--|
| 29-N | -- | <b>2. Maternity</b> (Homes for unwed mothers) (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.) |
|------|----|--|

**3. Mentally Ill**

- |      |    |  |
|------|----|--|
| 16-N | -- | a. Federal   |
| 17-N | -- | b. State   |
| 18-N | -- | c. Private   |
| 19-N | -- | d. Don't know if public/private ownership (Use only as a last resort if no other type code applies.) |



GQ	Staff
codes	residents
	GQ codes

# **G. Group Homes—Con.**

## **4. Mentally Retarded**

- |      |    |  |
|------|----|--|
| 55-N | -- | a. Federal   |
| 57-N | -- | b. State   |
| 58-N | -- | c. Private   |
| 59-N | -- | d. Don't know if public/private ownership (Use only as a last resort if no other type code applies.) |

## **5. Physically Handicapped**

- |      |    |  |
|------|----|--|
| 72-N | -- | a. Public ownership  |
| 73-N | -- | b. Private ownership   |
| 74-N | -- | c. Don't know if public/private ownership (Use only as a last resort if no other type code applies.) |

**6. Runaway, Neglected, and Homeless Children:** Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.

- |      |    |   |
|------|----|---|
| 79-N | -- | 7. Other Group Homes: Including communes, foster care homes and job corps centers with 10 or more unrelated children. Do not include emergency housing for persons with no other home. See paragraph F1. (Use only as a last resort if no other type code applies.) |
|------|----|---|

# **H. Hospitals/Schools for the Handicapped**

- |      |      |   |
|------|------|---|
| 86-N | --   | 1. Dormitories for Nurses and Interns in General and Military Hospitals   |
| 70-I | 70-N | 2. Drug/Alcohol Abuse: Including hospitals, and hospital wards in psychiatric and general hospitals. These facilities/wards are in a medical setting equipped and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical/nursing care from a formally trained staff. For group homes, see paragraph G.   |
|      |      | 3. Hospitals for Chronically Ill  |
| 54-I | 86-N | a. Military hospitals or wards for chronically ill  |
| 55-I | 86-N | b. Other hospitals or wards for chronically ill: Including tuberculosis hospitals or wards, wards in general and Veterans' Administration hospitals for the chronically ill, neurological wards, hospices; wards for patients with Hansen's Disease (leprosy) and other incurable diseases; and other unspecified wards for the chronically ill. Do not include mental or alcohol/drug abuse hospitals or wards.  |
|      |      | 4. Mentally Ill (Psychiatric): Hospitals or wards, including wards for the criminally insane not operated by a prison and psychiatric wards of general hospitals and veterans' hospitals. This is a medical setting designed for the treatment of mental illness. Patients receive supervised and medical/nursing care from a formally trained staff. Code wards for the mentally retarded according to paragraph H5. Do not include hospitals or wards for alcohol/drug abuse; see paragraph H2. |
| 46-I | 46-N | a. Federal ownership  |
| 47-I | 47-N | b. State or local ownership   |
| 48-I | 48-N | c. Private ownership  |
| 45-I | 45-N | d. Don't know if Federal, State, local, or private ownership (Use only as a last resort if no other type code applies.)   |
|      |      | 5. Mentally Retarded: Schools, hospitals, wards, including wards in hospitals for the mentally ill, and intermediate care facilities for the mentally retarded. This is in a suitably-equipped setting and with supervised and medical/nursing care from a formally trained staff.  |
| 41-I | 41-N | a. Federal ownership  |
| 43-I | 43-N | b. State or local ownership   |

GQ codes	Staff residents GQ codes
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#### H. Hospitals/Schools for the Handicapped—Con.

- |      |      |   |
|------|------|---|
| 42-I | 42-N | c. Private ownership  |
| 40-I | 40-N | d. Don't know if Federal, State, local, or private ownership (Use only as a last resort if no other type code applies.)   |
|      |      | 6. <i>Physically Handicapped:</i> Including schools, hospitals, or wards in a suitably-equipped medical setting and designed primarily for the physically handicapped who receive supervised care and medical/nursing care from a formally trained staff.                         |
|      |      | a. Institutions for the deaf  |
| 38-I | 38-N | (1) Public ownership  |
| 39-I | 39-N | (2) Private ownership   |
| 37-I | 37-N | (3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)   |
|      |      | b. Institutions for the blind   |
| 35-I | 35-N | (1) Public ownership  |
| 36-I | 36-N | (2) Private ownership   |
| 34-I | 34-N | (3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)   |
|      |      | c. Orthopedic wards and institutions for physically handicapped: Including accident victims, and persons with polio, cerebral palsy, and muscular dystrophy.  |
| 32-I | 32-N | (1) Public ownership  |
| 33-I | 33-N | (2) Private ownership   |
| 31-I | 31-N | (3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)   |
| 53-I | 56-N | 7. <i>Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere:</i> Including maternity, neonatal, pediatric (including wards for boarder babies), military, surgical wards, and other purpose wards of hospitals and wards for infectious diseases. |
|      |      | Note: Do not include long-term care rooms for the elderly in wards or buildings on the grounds of hospitals, see paragraph E.   |

#### I. Hotels/Motels: "S-Night" locations, see paragraph F.

#### J. Juvenile Institutions: Including homes, schools, and hospitals.

- |      |      |  |
|------|------|--|
|      |      | 1. <i>Long-Term Care</i> (length of stay usually more than 30 days)  |
|      |      | a. Neglected, abused, and dependent children: Including orphanages, homes, or residential care.  |
| 03-I | 03-N | (1) Public ownership   |
| 04-I | 04-N | (2) Private ownership  |
| 02-I | 02-N | (3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)  |
| 05-I | 05-N | b. Emotionally disturbed children: Including residential treatment centers (psychiatric care provided).  |
|      |      | c. Delinquent children: Placed by court, parents, or social service agency, in residential training school or home, including industrial schools, camps, or farms. |
| 12-I | 12-N | (1) Public ownership: Committed by courts.   |
| 15-I | 15-N | (2) Private ownership: Some are committed by courts, others are referred by parents or social service agencies because of delinquent behavior.                     |
| 11-I | 11-N | (3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)  |

GQ codes	Staff residents GQ codes
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**J. Juvenile Institutions:** Including homes, schools, and hospitals—Con.

**2. Short-term** (length of stay usually 30 days or less)

10-I	10-N
------	------

a. Delinquent children: Including those receiving temporary care in detention or diagnostic centers pending court disposition of case.

b. Runaway, neglected, and homeless children: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.

01-I	01-N
------	------

3. *Don't Know Type of Juvenile Institution:* Including homes, schools, hospitals, or wards for children. (Use only as a last resort if no other type code applies.)

**K. Military Quarters**

**1. On Base**

97-N	—
------	---

a. Barracks, bachelor officers quarters, unaccompanied officer personnel housing, unaccompanied enlisted personnel housing, and similar noninstitutional group living quarters for military personnel

96-N	--
------	----

b. Transient quarters (noninstitutional) for temporary residents (military or civilian)

86-N	—
------	---

c. Dormitories for nurses and interns in general military hospitals

54-I	86-N
------	------

d. Hospitals or wards for chronically ill

95-I	95-N
------	------

e. Stockades and jails

98-N	—
------	---

**2. Military Ships**

90-N	—
------	---

**L. Natural Disaster:** Including those temporarily displaced by a natural disaster, such as "Hurricane Hugo."

89-N	--
------	----

**M. Religious Group Quarters:** Including convents, monasteries, and rectories. Members of religious orders who live in a dormitory at a hospital or college were classified according to the type of place where they live, such as 86-N if at a general hospital, or 87-N if at a college. (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)

80-N	—
------	---

**N. Rooming and Boarding Houses**

(Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)

**O. Schools for the Handicapped:** See paragraphs H5 and H6.

**P. Shelter/Street Night Enumeration ("S-Night"):** See paragraph F.

94-N	--
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**Q. Other Nonhousehold Living Situations:** Including places not covered by other GQ codes shown herein, such as commercial or public campgrounds, campgrounds at racetracks, fairs, and carnivals, hostels, and similar transient sites. (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.)

**R. Staff of Institutions:** Including staff personnel residing in group quarters. Code according to the appropriate type of group quarters shown under the column "Staff residents GQ codes." Staff residents are coded with an "N" suffix.

Note: Do not assign GQ codes to staff residents in group quarters where a "--" is shown.

## HISPANIC ORIGIN

This section contains the code list used to code write-in entries for the Hispanic origin question. A set of three-digit numerical codes was used to identify FOSDIC circles for the Hispanic origin categories listed in the Hispanic origin item on the questionnaire. These codes and their respective Hispanic origin categories are: Not Spanish/Hispanic-001, Mexican-002, Puerto Rican-003, Cuban-004, and Other Spanish/Hispanic-005. For sample (long-form) questionnaires, a separate set of three-digit numerical codes was used to code write-in entries provided by respondents to the "Yes, other Spanish/Hispanic" category of the Hispanic origin item. The list of origins with their associated three-digit codes is shown below. "n.e.c." is the abbreviation for not elsewhere classified.

<b>000-001, 006-199</b>	<b>NOT SPANISH/HISPANIC</b>	<b>231-249</b>	<b>SOUTH AMERICAN—Con.</b>
000-001	Not Spanish/Hispanic (FOSDIC circle)	234	Colombian
006-199	Not Spanish/Hispanic	235	Ecuadorian
		236	Paraguayan
		237	Peruvian
<b>200-209</b>	<b>SPANIARD</b>	238	Uruguayan
200	Spaniard	239	Venezuelan
201	Andalusian	240	Reserve Spanish/Hispanic 6
202	Asturian	241	Reserve Spanish/Hispanic 7
203	Castilian	242	Reserve Spanish/Hispanic 8
204	Catalonian	243	Reserve Spanish/Hispanic 9
205	Balearic Islander	244	Reserve Spanish/Hispanic 10
206	Gallego	245	Reserve Spanish/Hispanic 11
207	Valencian	246	Reserve Spanish/Hispanic 12
208	Canarian	247	South American Indian
209	Spanish Basque	248	Criollo
		249	South American
<b>002, 210-220</b>	<b>MEXICAN</b>	<b>250-260</b>	<b>LATIN AMERICAN</b>
002	Mexican (FOSDIC circle)	250	Latin American
210	Mexican	251	Latin
211	Mexican American	252	Latino
212	Mexicano	253	Reserve Spanish/Hispanic 13
213	Chicano	254	Reserve Spanish/Hispanic 14
214	La Raza	255	Reserve Spanish/Hispanic 15
215	Mexican American Indian	256	Reserve Spanish/Hispanic 16
216	Reserve Spanish/Hispanic 1	257	Reserve Spanish/Hispanic 17
217	Reserve Spanish/Hispanic 2	258	Reserve Spanish/Hispanic 18
218	Mexico	259	Reserve Spanish/Hispanic 19
219	Reserve Spanish/Hispanic 3	260	Reserve Spanish/Hispanic 20
220	Reserve Spanish/Hispanic 4		
<b>221-230</b>	<b>CENTRAL AMERICAN</b>	<b>003, 261-270</b>	<b>PUERTO RICAN</b>
221	Costa Rican	003	Puerto Rican (FOSDIC circle)
222	Guatemalan	261	Puerto Rican
223	Honduran	262	Reserve Spanish/Hispanic 21
224	Nicaraguan	263	Reserve Spanish/Hispanic 22
225	Panamanian	264	Reserve Spanish/Hispanic 23
226	Salvadoran	265	Reserve Spanish/Hispanic 24
227	Central American	266	Reserve Spanish/Hispanic 25
228	Central American Indian	267	Reserve Spanish/Hispanic 26
229	Canal Zone	268	Reserve Spanish/Hispanic 27
230	Reserve Spanish/Hispanic 5	269	Reserve Spanish/Hispanic 28
		270	Reserve Spanish/Hispanic 29
<b>231-249</b>	<b>SOUTH AMERICAN</b>		
231	Argentinean		
232	Bolivian		
233	Chilean		

**004, 271-274 CUBAN**

004 Cuban (FOSDIC circle)  
 271 Cuban  
 272 Reserve Spanish/Hispanic 30  
 273 Reserve Spanish/Hispanic 31  
 274 Reserve Spanish/Hispanic 32

**275-289 DOMINICAN**

275 Dominican  
 276 Reserve Spanish/Hispanic 33  
 277 Reserve Spanish/Hispanic 34  
 278 Reserve Spanish/Hispanic 35  
 279 Reserve Spanish/Hispanic 36  
 280 Reserve Spanish/Hispanic 37  
 281 Reserve Spanish/Hispanic 38  
 282 Reserve Spanish/Hispanic 39  
 283 Reserve Spanish/Hispanic 40  
 284 Reserve Spanish/Hispanic 41  
 285 Reserve Spanish/Hispanic 42

**275-289 DOMINICAN—Con.**

286 Reserve Spanish/Hispanic 43  
 287 Reserve Spanish/Hispanic 44  
 288 Reserve Spanish/Hispanic 45  
 289 Reserve Spanish/Hispanic 46

**005, 290-999 OTHER SPANISH/HISPANIC**

005 Other Spanish/Hispanic (FOSDIC circle)  
 290 Hispanic  
 291 Spanish  
 292 Californio  
 293 Tejano  
 294 Nuevo Mexicano  
 295 Spanish American  
 296 Spanish American Indian  
 297 Meso American Indian  
 298 Mestizo  
 299-999 Other Spanish/Hispanic, n.e.c.

## INDUSTRY

The list presents the industrial classification developed for the 1990 Census of Population and Housing. There are 235 categories for the employed, with 1 additional category for the experienced unemployed, and 7 additional categories for the Armed Forces. These categories are aggregated into 13 major groups. The classification is developed from the 1987 Standard Industrial Classification. "n.e.c." is the abbreviation for not elsewhere classified.

### **000-039      AGRICULTURE, FORESTRY, AND FISHERIES**

000-010      Agricultural production, crops (01)  
011      Agricultural production, livestock (02)  
012      Veterinary services (074)  
013-020      Landscape and horticultural services (078)  
021-030      Agricultural services, n.e.c. (071, 072, 075, 076)  
031      Forestry (08)  
032-039      Fishing, hunting, and trapping (09)

### **040-059      MINING**

040      Metal mining (10)  
041      Coal mining (12)  
042      Oil and gas extraction (13)  
043-059      Nonmetallic mining and quarrying, except fuel (14)

### **060-099      CONSTRUCTION (15, 16, 17)**

### **100-399      MANUFACTURING**

#### **100-229      Nondurable Goods**

100-129      Food and kindred products  
100      Meat products (201)  
101      Dairy products (202)  
102-109      Canned, frozen and preserved fruits and vegetables (203)  
110      Grain mill products (204)  
111      Bakery products (205)  
112-119      Sugar and confectionery products (206)  
120      Beverage industries (208)  
121      Miscellaneous food preparations and kindred products (207, 209)  
122-129      Not specified food industries

#### **130-131      Tobacco manufactures (21)**

132-150      Textile mill products  
132-139      Knitting mills (225)  
140      Dyeing and finishing textiles, except wool and knit goods (226)  
141      Carpets and rugs (227)  
142-149      Yarn, thread, and fabric mills (221-224, 228)  
150      Miscellaneous textile mill products (229)

151-159      Apparel and other finished textile products  
151      Apparel and accessories, except knit (231-238)  
152-159      Miscellaneous fabricated textile products (239)

160-170      Paper and allied products  
160      Pulp, paper, and paperboard mills (261-263)  
161      Miscellaneous paper and pulp products (267)  
162-170      Paperboard containers and boxes (265)

<b>100-399</b>	<b>MANUFACTURING—Con.</b>
<b>171-179</b>	<b>Printing, publishing, and allied industries</b>
171	Newspaper publishing and printing (271)
172-179	Printing, publishing, and allied industries, except newspapers (272-279)
<b>180-199</b>	<b>Chemicals and allied products</b>
180	Plastics, synthetics, and resins (282)
181	Drugs (283)
182-189	Soaps and cosmetics (284)
190	Paints, varnishes, and related products (285)
191	Agricultural chemicals (287)
192-199	Industrial and miscellaneous chemicals (281, 286, 289)
<b>200-209</b>	<b>Petroleum and coal products</b>
200	Petroleum refining (291)
201-209	Miscellaneous petroleum and coal products (296, 299)
<b>210-219</b>	<b>Rubber and miscellaneous plastics products</b>
210	Tires and inner tubes (301)
211	Other rubber products, and plastics footwear and belting (302-306)
212-219	Miscellaneous plastics products (308)
<b>220-229</b>	<b>Leather and leather products</b>
220	Leather tanning and finishing (311)
221	Footwear, except rubber and plastic (313, 314)
222-229	Leather products, except footwear (315-317, 319)
<b>230-399</b>	<b>Durable Goods</b>
<b>230-241</b>	<b>Lumber and wood products, except furniture</b>
230	Logging (241)
231	Sawmills, planing mills, and millwork (242, 243)
232-240	Wood buildings and mobile homes (245)
241	Miscellaneous wood products (244, 249)
<b>242-249</b>	<b>Furniture and fixtures (25)</b>
<b>250-269</b>	<b>Stone, clay, glass, and concrete products</b>
250	Glass and glass products (321-323)
251	Cement, concrete, gypsum, and plaster products (324, 327)
252-260	Structural clay products (325)
261	Pottery and related products (326)
262-269	Miscellaneous nonmetallic mineral and stone products (328, 329)
<b>270-309</b>	<b>Metal Industries</b>
270	Blast furnaces, steelworks, rolling and finishing mills (331)
271	Iron and steel foundries (332)
272-279	Primary aluminum industries (3334, part 334, 3353-3355, 3363, 3365)
280	Other primary metal industries (3331, 3339, part 334, 3351, 3356, 3357, 3364, 3366, 3369, 339)
281	Cutlery, handtools, and general hardware (342)
282-289	Fabricated structural metal products (344)
290	Screw machine products (345)
291	Metal forgings and stampings (346)
292-299	Ordnance (348)
300	Miscellaneous fabricated metal products (341, 343, 347, 349)
301-309	Not specified metal industries

<b>100-399</b>	<b>MANUFACTURING—Con.</b>
310-339	Machinery and computing equipment
310	Engines and turbines (351)
311	Farm machinery and equipment (352)
312-319	Construction and material handling machines (353)
320	Metalworking machinery (354)
321	Office and accounting machines (3578, 3579)
322-330	Computers and related equipment (3571-3577)
331	Machinery, except electrical, n.e.c. (355, 356, 358, 359)
332-339	Not specified machinery
340-350	Electrical machinery, equipment, and supplies
340	Household appliances (363)
341	Radio, TV, and communication equipment (365, 366)
342-349	Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
350	Not specified electrical machinery, equipment, and supplies
351-370	Transportation equipment
351	Motor vehicles and motor vehicle equipment (371)
352-359	Aircraft and parts (372)
360	Ship and boat building and repairing (373)
361	Railroad locomotives and equipment (374)
362-369	Guided missiles, space vehicles, and parts (376)
370	Cycles and miscellaneous transportation equipment (375, 379)
371-389	Professional and photographic equipment, and watches
371	Scientific and controlling instruments (381, 382 except 3827)
372-379	Medical, dental, and optical instruments and supplies (3827, 384, 385)
380	Photographic equipment and supplies (386)
381-389	Watches, clocks, and clockwork operated devices (387)
390	Toys, amusement, and sporting goods (394)
391	Miscellaneous manufacturing industries (39 except 394)
392-399	Not specified manufacturing industries
<b>400-499</b>	<b>TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES</b>
400-439	Transportation
400	Railroads (40)
401	Bus service and urban transit (41, except 412)
402-409	Taxicab service (412)
410	Trucking service (421, 423)
411	Warehousing and storage (422)
412-419	U.S. Postal Service (43)
420	Water transportation (44)
421	Air transportation (45)
422-431	Pipe lines, except natural gas (46)
432-439	Services incidental to transportation (47)
440-449	Communications
440	Radio and television broadcasting and cable (483, 484)
441	Telephone communications (481)
442-449	Telegraph and miscellaneous communications services (482, 489)
450-499	Utilities and sanitary services
450	Electric light and power (491)



**400-499      TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES—Con.**

451	Gas and steam supply systems (492, 496)
452-469	Electric and gas, and other combinations (493)
470	Water supply and irrigation (494, 497)
471	Sanitary services (495)
472-499	Not specified utilities

**500-579      WHOLESALE TRADE**

500-539	Durable Goods
500	Motor vehicles and equipment (501)
501	Furniture and home furnishings (502)
502-509	Lumber and construction materials (503)
510	Professional and commercial equipment and supplies (504)
511	Metals and minerals, except petroleum (505)
512-520	Electrical goods (506)
521-529	Hardware, plumbing and heating supplies (507)
530	Machinery, equipment, and supplies (508)
531	Scrap and waste materials (5093)
532-539	Miscellaneous wholesale, durable goods (509 except 5093)

540-579	Nondurable Goods
540	Paper and paper products (511)
541	Drugs, chemicals and allied products (512, 516)
542-549	Apparel, fabrics, and notions (513)
550	Groceries and related products (514)
551	Farm-product raw materials (515)
552-559	Petroleum products (517)
560	Alcoholic beverages (518)
561	Farm supplies (5191)
562-570	Miscellaneous wholesale, nondurable goods (5192-5199)
571-579	Not specified wholesale trade

**580-699      RETAIL TRADE**

680	Lumber and building material retailing (521, 523)
681	Hardware stores (525)
682-689	Retail nurseries and garden stores (526)
690	Mobile home dealers (527)
691	Department stores (531)
692-699	Variety stores (533)
600	Miscellaneous general merchandise stores (539)
601	Grocery stores (541)
602-609	Dairy products stores (545)
610	Retail bakeries (546)
611	Food stores, n.e.c. (542, 543, 544, 549)
612-619	Motor vehicle dealers (551, 552)
620	Auto and home supply stores (553)
621	Gasoline service stations (554)
622	Miscellaneous vehicle dealers (555, 556, 557, 559)
623-629	Apparel and accessory stores, except shoe (56, except 565)
630	Shoe stores (566)
631	Furniture and home furnishings stores (571)
632	Household appliance stores (572)
633-639	Radio, TV, and computer stores (5731, 5734)
640	Music stores (5735, 5736)
641	Eating and drinking places (58)
642-649	Drug stores (591)
650	Liquor stores (592)

<b>580-699</b>	<b>RETAIL TRADE—Con.</b>
651	Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)
652-659	Book and stationery stores (5942, 5943)
660	Jewelry stores (5944)
661	Gift, novelty, and souvenir shops (5947)
662	Sewing, needlework and piece goods stores (5949)
663-669	Catalog and mail order houses (5961)
670	Vending machine operators (5962)
671	Direct selling establishments (5963)
672-680	Fuel dealers (596)
681	Retail florists (5992)
682-690	Miscellaneous retail stores (593, 5948, 5993-5995, 5999)
691-699	Not specified retail trade
<b>700-720</b>	<b>FINANCE, INSURANCE, AND REAL ESTATE</b>
700	Banking (60 except 603 and 606)
701	Savings institutions, including credit unions (603, 606)
702-709	Credit agencies, n.e.c. (61)
710	Security, commodity brokerage, and investment companies (62, 67)
711	Insurance (63, 64)
712-720	Real estate, including real estate-insurance offices (65)
<b>721-760</b>	<b>BUSINESS AND REPAIR SERVICES</b>
721	Advertising (731)
722-730	Services to dwellings and other buildings (734)
731	Personnel supply services (736)
732-739	Computer and data processing services (737)
740	Detective and protective services (7381, 7382)
741	Business services, n.e.c. (732, 733, 735, 7383-7389)
742-749	Automotive rental and leasing, without drivers (751)
750	Automotive parking and carwashes (752, 7542)
751	Automotive repair and related services (753, 7549)
752-759	Electrical repair shops (762, 7694)
760	Miscellaneous repair services (763, 764, 7692, 7699)
<b>761-799</b>	<b>PERSONAL SERVICES</b>
761	Private households (88)
762-769	Hotels and motels (701)
770	Lodging places, except hotels and motels (702, 703, 704)
771	Laundry, cleaning, and garment services (721 except part 7219)
772-779	Beauty shops (723)
780	Barber shops (724)
781	Funeral service and crematories (726)
782-789	Shoe repair shops (725)
790	Dressmaking shops (part 7219)
791-799	Miscellaneous personal services (722, 729)
<b>800-811</b>	<b>ENTERTAINMENT AND RECREATION SERVICES</b>
800	Theaters and motion pictures (781-783, 792)
801	Video tape rental (784)
802-809	Bowling centers (793)
810-811	Miscellaneous entertainment and recreation services (791, 794, 799)

**812-899****PROFESSIONAL AND RELATED SERVICES**

812-819 Offices and clinics of physicians (801, 803)  
820 Offices and clinics of dentists (802)  
821 Offices and clinics of chiropractors (8041)  
822-829 Offices and clinics of optometrists (8042)  
830 Offices and clinics of health practitioners, n.e.c. (8043, 8049)  
831 Hospitals (806)  
832-839 Nursing and personal care facilities (805)  
840 Health services, n.e.c. (807, 808, 809)  
841 Legal services (81)  
842-849 Elementary and secondary schools (821)  
850 Colleges and universities (822)  
851 Vocational schools (824)  
852-859 Libraries (823)  
860 Educational services, n.e.c. (829)  
861 Job training and vocational rehabilitation services (833)  
862 Child day care services (part 835)  
863-869 Family child care homes (part 835)  
870 Residential care facilities, without nursing (836)  
871 Social services, n.e.c. (832, 839)  
872 Museums, art galleries, and zoos (84)  
873-879 Labor unions (863)  
880 Religious organizations (866)  
881 Membership organizations, n.e.c. (861, 862, 864, 865, 869)  
882-899 Engineering, architectural, and surveying services (871)  
890 Accounting, auditing, and bookkeeping services (872)  
891 Research, development, and testing services (873)  
892 Management and public relations services (874)  
893-899 Miscellaneous professional and related services (899)

**900-939****PUBLIC ADMINISTRATION**

900 Executive and legislative offices (911-913)  
901-909 General government, n.e.c. (919)  
910-920 Justice, public order, and safety (92)  
921 Public finance, taxation, and monetary policy (93)  
922-929 Administration of human resources programs (94)  
930 Administration of environmental quality and housing programs (95)  
931 Administration of economic programs (96)  
932-939 National security and international affairs (97)

**940-991****ACTIVE DUTY MILITARY**

940-959 Armed Forces  
940 Army  
941 Air Force  
942-949 Navy  
950 Marines  
951 Coast Guard  
952-959 Armed Forces, Branch not specified  
960-991 Military Reserves or National Guard

**992-999****EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY INDUSTRY**

992-999 Unemployed, last worked 1984 or earlier

## LANGUAGE

This section contains the code list of languages other than English spoken at home. Each entry was given a three-digit code. If more than one language was reported, only the first language reported was coded. The languages were coded originally into nearly 400 different language categories. The following list contains the principal name for each code. Since many languages and language groups are known by several names, additional illustrative names are shown for some languages. A complete list of all reported language names and categories into which they were coded may be obtained from the Census Bureau at the cost of reproduction.

000-600	NOT IN UNIVERSE	633	WELSH
601	JAMAICAN CREOLE	634	BRETON
602	KRIO	635	IRISH GAELIC
603	HAWAIIAN PIDGIN	636	SCOTTIC GAELIC
604	PIDGIN	637	GREEK
605	GULLAH	638	ALBANIAN
606	SARAMACCA	639	RUSSIAN
		640	BIELORUSSIAN
607	GERMAN	641	UKRAINIAN
607	Austrian	642	CZECH
607	Swiss	643	KASHUBIAN
608	PENNSYLVANIA DUTCH	644	LUSATIAN
609	YIDDISH	644	Sorbian
		644	Wendish
610	DUTCH		
610	Flemish	645	POLISH
		646	SLOVAK
611	AFRIKAANS	647	BULGARIAN
612	FRISIAN	648	MACEDONIAN
613	LUXEMBOURGIAN		
614	SWEDISH	649	SERBOCROATIAN
615	DANISH	649	Slavic
616	NORWEGIAN	649	Yugoslav
617	ICELANDIC		
618	FAROESE	650	CROATIAN
619	ITALIAN	651	SERBIAN
		652	SLOVENE
620	FRENCH	653	LITHUANIAN
620	Wallon	654	LETTISH
		655	ARMENIAN
621	PROVENÇAL		
622	PATOIS	656	PERSIAN
		656	Farsi
623	FRENCH CREOLE	656	Pushto
623	Haitian Creole		
		657	PASHTO
624	CAJUN	657	Afghan
625	SPANISH		
626	CATALONIAN	658	KURDISH
627	LADINO	659	BALUCHI
628	PACHUCO	660	TADZHIK
629	PORTUGUESE	661	OSSETE
630	PAPIA MENTAE	662	SANSKRIT
631	RUMANIAN		
		663	HINDI AND RELATED
632	RHAETO-ROMANIC	663	Hindi
632	Romansch	663	India
		663	Urdu

664	BENGALI	706	MUNDA
665	PANJABI	707	BURUSHASKI
666	MARATHI		
667	GUJARATHI	708	CHINESE
668	BIHARI	708	Cantonese
669	RAJASTHANI	708	Yueh
670	ORIYA	708	Min
671	BHILI		
672	ASSAMESE	709	HAKKA
673	KASHMIRI	709	Fukien
674	NEPALI	709	K'echia
675	SINDHI		
676	MALDIVIAN	710	KAN
677	SINHALESE	710	Nan Chang
678	ROMANY		
679	FINNISH	711	HSIANG
680	ESTONIAN	711	Hunan
681	LAPP		
682	HUNGARIAN	712	MANDARIN
		712	Honan
683	OTHER URALIC LANGUAGES	712	Hopei
683	Cheremis	712	Pei
683	Mordvin		
683	Samoyed	713	FUCHOW
683	Ugric	713	Min Pei
683	Yenisei		
		714	FORMOSAN
684	CHUVASH	714	Min Nan
685	KARAKALPAK		
686	KAZAKH	715	WU
687	KIRGHIZ	716	TIBETAN
688	KARACHAY	717	BURMESE
688	Tatar	717	Tonkin
689	UIGHUR	718	KAREN
689	Uzbek	719	KACHIN
690	AZERBAIJANI	720	THAI
691	TURKISH	720	Kam
692	TURKMEN	720	Lao
693	YAKUT	720	Laotian
694	MONGOLIAN	720	Tung
695	TUNGUS		
		721	MIAO-YAO
696	Caucasian		
696	Avar	722	MIAO
696	Georgian	722	Hmong
697	BASQUE	723	JAPANESE
698	DRAVIDIAN	724	KOREAN
699	BRAHUI	725	AINU
700	GONDI		
701	TELUGU	726	MON-KHMER
702	KANNADA	726	Cambodian
703	MALAYALAM	726	Khmer
704	TAMIL	726	Mon
705	KURUKH		

727	SIBERIAN LANGUAGES, not elsewhere classified	768	TONGAN
728	VIETNAMESE	769	NIUEAN
729	MUONG	770	TOKELAUAN
730	BUGINESE	771	FIJIAN
731	MOLUCCAN	772	MARQUESEAN
732	INDONESIAN	773	RAROTONGAN
733	ACHINESE	774	MAORI
734	BALINESE	775	NUKUORO
735	CHAM	776	HAWAIIAN
736	JAVANESE	777	ARABIC
737	MADURESE	778	HEBREW
738	MALAGASY	779	SYRIAC
739	MALAY	779	Aramaic
740	MINANGKABAU	779	Assyrian
741	SUNDANESE	779	Chaldee
742	TAGALOG	780	AMHARIC
742	Filipino	780	Tigre
743	BISAYAN	781	BERBER
743	Ilongo	782	CHADIC
744	SEBUANO	782	Hamitic
746	PANGASINAN	782	Hausa
746	ILOCANO	783	CUSHITE
746	Igorot	783	Beja
747	BIKOL	783	Somali
748	PAMPANGAN	784	SUDANIC
749	GORONTALO	784	Dinka
750	MICRONESIAN	784	Gambai
751	CAROLINIAN	784	Sudanese
752	CHAMORRO	785	NILOTIC
753	GILBERTESE	785	Acholi
754	KUSAIEAN	785	Luc
755	MARSHALLESE	785	Nuer
756	MOKILESE	785	
757	MORTLOCKESE	786	NILO-HAMITIC
758	NAURUAN	786	Bari
759	PALAU	786	Masai
760	PONAPEAN	787	NUBIAN
761	TRUKESE	788	SAHARAN
762	ULTHEAN	789	NILO-SAHARAN
763	WOLEAI-ULITHI	789	Fur
763	Eauripik	789	Songhai
763	Italuk	790	KHOISAN
764	YAPESE	790	Bushman
765	INDO-PACIFIC LANGUAGES, not elsewhere classified	791	SWAHILI
765	Melanesian	792	BANTU
766	POLYNESIAN	792	Bemba
767	SAMOAN		

792	Botswana	814	KICKAPOO
792	Chaga	815	MENOMINI
792	Fan		
792	Kikuyu	816	FRENCH CREE
792	Kongo	816	Metis
792	Luganda		
792	Naebele	817	MIAMI
792	Xhosa	818	MICMAC
792	Zulu		
		819	OJIBWA
793	MANDE	819	Chippewa
793	Kpelle		
793	Mandingo	820	OTTAWA
794	FULANI	821	PASSAMAQUODDY
		821	Malecite
795	GUR		
795	Dagomba	822	PENOBSCOT
		823	ABNAKI
796	KRU	824	POTAWATOMI
796	Damomeen	825	SHAWNEE
796	Egbo	826	WIYOT
796	Ibo	827	YUROK
796	Nigerian	828	KUTENAI
796	Yoruba	829	MAKAH
797	EFIK	830	KWAKIUTL
797	Ibibio	830	Quileute
798	MBUM AND RELATED	831-832	NOOTKA
799	AFRICAN, not further specified	833	LOWER CHEHALIS
800	ALEUT		
		834	UPPER CHEHALIS
801	PACIFIC GULF YUPIK	834	Chehalis
801	Pacific Eskimo	834	Satsop
802	ESKIMO	835	CLALLAM
803	INUPIK	836	COEUR D'ALENE
803	Inuit	836	Skitsumish
804	SAINT LAWRENCE ISLAND YUPIK	837	COLUMBIA
805	YUPIK	837	Chelan
806	ALGONQUIAN	837	Wenatchee
807	ARAPAHO		
		838	COWLITZ
808	ATSINA		
808	Gros Ventre	839	SALISH
		839	Flathead
809	BLACKFOOT		
810	CHEYENNE	840	NOOTSACK
811	CREE	841	OKANOGAN
812	DELAWARE	842	PUGET SOUND SALISH
812	Lenni-Lenape	842	Duwamish
		842	Nisqualli
813	FOX	842	Puyallup
813	Sac	842	Skagit

842	Snohomish	869	SOUTHERN MAIDU
842	Suquamish	869	Nisenan
843	QUINAULT	870	COAST MIWOK
843	Queets	870	Bodega
		870	Marin
844	TILLAMOOK		
845	TWANA	871	PLAINS MIWOK
846	HAIDA		
847	ATHAPASCAN	872	SIERRA MIWOK
848	AHTENA	872	Miwok
849	HAN		
850	INGALIT	873	NOMLAKI
851	KOYUKON	873	Tehama
852	KUCHIN		
853	UPPER KUSKOKWIM	874	FATWIN
854	TANAINA	874	Colouse
		874	Suisun
855	TANANA		
855	Minto	875	WINTUN
		876	FOOTHILL NORTH YOKUTS
856	TANACROSS	877	TACHI
857	UPPER TANANA	878	SANTIAM
857	Nabesna	878	Calapooya
857	Tetlin	878	Wapatu
858	TUTCHONE	879	SIUSLAW
		879	Coos
859	CHASTA COSTA	879	Lower Umpqua
859	Chetco		
859	Coquille	880	KLAMATH
859	Smith River Athapascan	880	Modoc
860	HUPA	881	NEZ PERCE
861	OTHER ATHAPASCAN-EYAK	882	SAHAPTIAN
	LANGUAGES	882	Celilo
861	Cahto	882	Kiklat
861	Mattole	882	Palouse
861	Wallaki	882	Tenino
		882	Umatilla
862	APACHE	882	Warm Springs
863	KIOWA	882	Yakima
864	NAYAGO		
865	EYAK	883	UPPER CHINOOK
		883	Chinook
866	TLINGIT	883	Clackamas
866	Chilkat	883	Multnomah
866	Sitka	883	Wasco
866	Tongass	883	Wishram
866	Yakutat		
867	MOUNTAIN MAIDU	884	TSIMSHIAN
867	Maidu	885	ACHUMAWI
		886	ATSUGEWI
		887	KAROK
868	NORTHWEST MAIDU	888	POMO
868	Concow	889	SHASTAN



890	WASHO	924	KERES
891	UP RIVER YUMAN	925	IROQUOIS
892	COCOMARICOPA	926	MOHAWK
893	MOHAVE	927	ONEIDA
894	YUMA	928	ONONDAGA
895	DIEGUENO	929	CAYUGA
896	DELTA RIVER YUMAN	930	SENECA
897	UPLAND YUMAN	931	TUSCARORA
898	HAVASUPAI		
899	WALAPAI	932	WYANDOT
900	YAVAPAI	932	Huron
901	CHUMASH		
902	TONKAWA	933	CHEROKEE
903	YUCHI	934	ARIKARA
		935	CADDO
904	CROW	936	PAWNEE
904	Absaroke	937	WICHITA
		938	COMANCHE
905	HIDATSA		
906	MANDAN	939	MONO
		939	Owens Valley Paiute
907	DAKOTA		
907	Brule	940	PAIUTE
907	Lakota		
907	Oglala	941	NORTHERN PAIUTE
907	Sioux	941	Bannock
		941	Num
908	CHIWERE	941	Snake
909	WINNEBAGO		
		942	SOUTHERN PAIUTE
910	KANSA	943	CHEMEHUEVI
910	Kaw	944	KAWAII SU
		945	UTE
911	OMAHA	946	SHOSHONI
912	OSAGE	947	PANAMINT
913	PONCA	948	HOPI
		949	CAHUILLA
914	QUAPAW	950	CUPENO
914	Arkansas	951	LUISENO
		952	SERRANO
915	ALABAMA	953	TUBATULABAL
916	CHOCTAW	954	PIMA
916	Chickasaw	954	Papago
917	MIKASUKI	955	YAQUI
918	HICHITA	956	AZTECAN
918	Apalachicola	956	Mexicano
		956	Nahua
919	KOASATI		
		957-958	SONORAN, not elsewhere classified
920	MUSKOGEE	957	Cahita
920	Creek	957	Guasave
920	Seminole	957	Huichola
921	CHETEMACHA	957	Nayit
922	YUKI	957-958	Tarahumara
923	WAPPO		

959	PICURIS	971	Mixtec
959	Northern Tiwa	971	Otomi
959	Taos	971	Popoloc
		971	Zapoteca
960	TIWA		
960	Isleta	972	QUECHUA
960	Ysleta	973	AYMARA
961	SANDIA		
962	TEWA	974	ARAWAKIAN
962	Hano	974	Araua
962	Hopi-Tewa	974	Carib
962	San Ildefonso	974	Guajiro
962	San Juan	974	Ktemoca
962	Santa Clara	974	Tatu
963	TOWA	975	CHIBCHAN
964	ZUNI	975	Boruca
965	CHINOOK JARGON	975	Cuna
966	AMERICAN INDIAN	975	Guayml
			Ica
967	MISUMALPAN	976	TUPI-GUARANI
967	Matagalpa	976	Guajibo
967	Miskito	976	Guarani
967	Sumu	976	Siriono
968	MAYAN LANGUAGES	977	JICARILLA
968	Cakchiquel	977	Lipan
968	Chol	978	CHIRICAHUA
968	Guastec	978	Mescalero
968	Guatemala		
968	Ixil	979	SAN CARLOS
968	Kechi	979	Cibecue
968	Mam	979	San Carlos
968	Maya	979	San Carlos Apache
968	Queche	979	White Mountain
968	Yucateca		
969	TARASCAN	980	KIOWA-APACHE
970	MAPUCHE	981	KALISPEL
970	Araucanian	982	SPOKANE
970	Chilote	983-998	LANGUAGE SPECIFIED, NOT LISTED
		999	NOT REPORTED
971	OTO-MANGUEN		
971	Ixatec		

## OCCUPATION

The list presents the occupational classification developed for the 1990 Census of Population and Housing. There are 500 categories for the employed with 1 additional category for the experienced unemployed and 3 additional categories for the Armed Forces. These categories are grouped into 6 summary groups and 13 major groups. The classification is developed from the 1980 Standard Occupational Classification. "n.e.c." is the abbreviation for not elsewhere classified.

### 000-202      **MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS**

#### 000-042      Executive, Administrative, and Managerial Occupations

000-003	Legislators (111)
004	Chief executives and general administrators, public administration (112)
005	Administrators and officials, public administration (1132-1138)
006	Administrators, protective services (1131)
007	Financial managers (122)
008	Personnel and labor relations managers (123)
009-012	Purchasing managers (124)
013	Managers, marketing, advertising, and public relations (125)
014	Administrators, education and related fields (128)
015	Managers, medicine and health (131)
016	Postmasters and mail superintendents (1344)
017	Managers, food serving and lodging establishments (1351)
018	Managers, properties and real estate (1353)
019-020	Funeral directors (part 1359)
021	Managers, service organizations, n.e.c. (127, 1352, 1354, part 1359)
022	Managers and administrators, n.e.c. (121, 126, 132-1343, 136-139)

#### 023-042      Management Related Occupations

023	Accountants and auditors (1412)
024	Underwriters (1414)
025	Other financial officers (1415, 1419)
026	Management analysts (142)
027	Personnel, training, and labor relations specialists (143)
028	Purchasing agents and buyers, farm products (1443)
029-032	Buyers, wholesale and retail trade except farm products (1442)
033	Purchasing agents and buyers, n.e.c. (1449)
034	Business and promotion agents (145)
035	Construction inspectors (1472)
036	Inspectors and compliance officers, except construction (1473)
037-042	Management related occupations, n.e.c. (149)

#### 043-202      Professional Specialty Occupations

##### 043-063      Engineers, Architects, and Surveyors

043	Architects (161)
044-062	Engineers
044	Aerospace (1622)
045	Metallurgical and materials (1623)
046	Mining (1624)
047	Petroleum (1625)
048	Chemical (1626)
049-052	Nuclear (1627)
053	Civil (1628)
054	Agricultural (1632)
055	Electrical and electronic (1633, 1636)
056	Industrial (1634)
057	Mechanical (1635)

<b>000-202</b>	<b>MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.</b>
058	Marine and naval architects (1637)
059-062	Engineers, n.e.c. (1639)
063	Surveyors and mapping scientists (164)
064-068	<b>Mathematical and Computer Scientists</b>
064	Computer systems analysts and scientists (171)
065	Operations and systems researchers and analysts (172)
066	Actuaries (1732)
067	Statisticians (1733)
068	Mathematical scientists, n.e.c. (1739)
069-083	<b>Natural Scientists</b>
069-072	Physicists and astronomers (1842, 1843)
073	Chemists, except biochemists (1845)
074	Atmospheric and space scientists (1846)
075	Geologists and geodesists (1847)
076	Physical scientists, n.e.c. (1849)
077	Agricultural and food scientists (1853)
078	Biological and life scientists (1854)
079-082	Forestry and conservation scientists (1852)
083	Medical scientists (1855)
084-094	<b>Health Diagnosing Occupations</b>
084	Physicians (261)
085	Dentists (262)
086	Veterinarians (27)
087	Optometrists (281)
088	Podiatrists (263)
089-094	Health diagnosing practitioners, n.e.c. (289)
095-112	<b>Health Assessment and Treating Occupations</b>
095	Registered nurses (29)
096	Pharmacists (301)
097	Dietitians (302)
098-105	<b>Therapists</b>
098	Respiratory therapists (3031)
099-102	Occupational therapists (3032)
103	Physical therapists (3033)
104	Speech therapists (3034)
105	Therapists, n.e.c. (3039)
106-112	Physicians' assistants (304)
113-154	<b>Teachers, Postsecondary</b>
113	Earth, environmental, and marine science teachers (2212)
114	Biological science teachers (2213)
115	Chemistry teachers (2214)
116	Physics teachers (2215)
117	Natural science teachers, n.e.c. (2216)
118	Psychology teachers (2217)
119-122	Economics teachers (2218)
123	History teachers (2222)
124	Political science teachers (2223)
125	Sociology teachers (2224)
126	Social science teachers, n.e.c. (2225)
127	Engineering teachers (2226)
128	Mathematical science teachers (2227)

000-202	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.
129-132	Computer science teachers (2228)
133	Medical science teachers (2231)
134	Health specialties teachers (2232)
135	Business, commerce, and marketing teachers (2233)
136	Agriculture and forestry teachers (2234)
137	Art, drama, and music teachers (2235)
138	Physical education teachers (2236)
139-142	Education teachers (2237)
143	English teachers (2238)
144	Foreign language teachers (2242)
145	Law teachers (2243)
146	Social work teachers (2244)
147	Theology teachers (2245)
148	Trade and industrial teachers (2246)
149-152	Home economics teachers (2247)
153	Teachers, postsecondary, n.e.c. (2249)
154	Postsecondary teachers, subject not specified
155-162	Teachers, Except Postsecondary
155	Teachers, prekindergarten and kindergarten (231)
156	Teachers, elementary school (232)
157	Teachers, secondary school (233)
158	Teachers, special education (235)
159-162	Teachers, n.e.c. (236, 239)
163	Counselors, Educational and Vocational (24)
164-165	Librarians, Archivists, and Curators
164	Librarians (251)
165	Archivists and curators (252)
166-173	Social Scientists and Urban Planners
166	Economists (1912)
167	Psychologists (1915)
168	Sociologists (1916)
169-172	Social scientists, n.e.c. (1913, 1914, 1919)
173	Urban planners (192)
174-177	Social, Recreation, and Religious Workers
174	Social workers (2032)
175	Recreation workers (2033)
176	Clergy (2042)
177	Religious workers, n.e.c. (2049)
178-182	Lawyers and Judges
178	Lawyers (211)
179-182	Judges (212)
183-202	Writers, Artists, Entertainers, and Athletes
183	Authors (321)
184	Technical writers (398)
185	Designers (322)
186	Musicians and composers (323)
187	Actors and directors (324)
188	Painters, sculptors, craft-artists, and artist printmakers (325)
189-192	Photographers (326)

**000-202      MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.**

193	Dancers (327)
194	Artists, performers, and related workers, n.e.c. (328, 329)
195-196	Editors and reporters (331)
197	Public relations specialists (332)
198	Announcers (333)
199-202	Athletes (34)

**203-402      TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS**

**203-242      Technicians and Related Support Occupations**

203-212	Health Technologists and Technicians
203	Clinical laboratory technologists and technicians (362)
204	Dental hygienists (363)
205	Health record technologists and technicians (364)
206	Radiologic technicians (365)
207	Licensed practical nurses (366)
208-212	Health technologists and technicians, n.e.c. (369)
213-242	Technologists and Technicians, Except Health
213-222	Engineering and Related Technologists and Technicians
213	Electrical and electronic technicians (3711)
214	Industrial engineering technicians (3712)
215	Mechanical engineering technicians (3713)
216	Engineering technicians, n.e.c. (3719)
217	Drafting occupations (372)
218-222	Surveying and mapping technicians (373)
223-225	Science Technicians
223	Biological technicians (382)
224	Chemical technicians (3831)
225	Science technicians, n.e.c. (3832, 3833, 384, 389)
226-242	Technicians, Except Health, Engineering, and Science
226	Airplane pilots and navigators (825)
227	Air traffic controllers (392)
228	Broadcast equipment operators (393)
229-232	Computer programmers (3971, 3972)
233	Tool programmers, numerical control (3974)
234	Legal assistants (396)
235-242	Technicians, n.e.c. (399)

**243-302      Sales Occupations**

243-252	Supervisors and Proprietors, Sales Occupations (40)
253-257	Sales Representatives, Finance and Business Services
253	Insurance sales occupations (4122)
254	Real estate sales occupations (4123)
255	Securities and financial services sales occupations (4124)
256	Advertising and related sales occupations (4153)
257	Sales occupations, other business services (4152)
258-262	Sales Representatives, Commodities, Except Retail
258	Sales engineers (421)
259-262	Sales representatives, mining, manufacturing, and wholesale (423, 424)

**203-402****TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.****253-282****Sales Workers, Retail and Personal Services****253**

Sales workers, motor vehicles and boats (4342, 4344)

**264**

Sales workers, apparel (4346)

**265**

Sales workers, shoes (4351)

**266**

Sales workers, furniture and home furnishings (4348)

**267**

Sales workers, radio, TV, hi-fi, and appliances (4343, 4352)

**268**

Sales workers, hardware and building supplies (4353)

**269-273**

Sales workers, parts (4367)

**274**

Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)

**275**

Sales counter clerks (4363)

**276**

Cashiers (4364)

**277**

Street and door-to-door sales workers (4365)

**278-282**

News vendors (4365)

**283-302****Sales Related Occupations****283**

Demonstrators, promoters and models, sales (445)

**284**

Auctioneers (447)

**285-302**

Sales support occupations, n.e.c. (444, 446, 449)

**303-402****Administrative Support Occupations, Including Clerical****303-307****Supervisors, Administrative Support Occupations****303**

Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)

**304**

Supervisors, computer equipment operators (4512)

**305**

Supervisors, financial records processing (4521)

**306**

Chief communications operators (4523)

**307**

Supervisors, distribution, scheduling, and adjusting clerks (4522, 4524-4528)

**308-312****Computer Equipment Operators****308**

Computer operators (4612)

**309-312**

Peripheral equipment operators (4613)

**313-315****Secretaries, Stenographers, and Typists****313**

Secretaries (4622)

**314**

Stenographers (4623)

**315**

Typists (4624)

**316-324****Information Clerks****316**

Interviewers (4642)

**317**

Hotel clerks (4643)

**318**

Transportation ticket and reservation agents (4644)

**319-322**

Receptionists (4645)

**323-324**

Information clerks, n.e.c. (4649)

**325-336****Records Processing Occupations, Except Financial****325**

Classified-ad clerks (4662)

**326**

Correspondence clerks (4663)

**327**

Order clerks (4664)

**328**

Personnel clerks, except payroll and timekeeping (4662)

**329-334**

Library clerks (4694)

**335**

File clerks (4696)

**336**

Records clerks (4699)

**337-344****Financial Records Processing Occupations****337**

Bookkeepers, accounting, and auditing clerks (4712)

**338**

Payroll and timekeeping clerks (4713)

**203-402 TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.**

339-342	Billing clerks (4715)
343	Cost and rate clerks (4716)
344	Billing, posting, and calculating machine operators (4718)
345-347	Duplicating, Mail and Other Office Machine Operators
345	Duplicating machine operators (4722)
346	Mail preparing and paper handling machine operators (4723)
347	Office machine operators, n.e.c. (4729)
348-353	Communications Equipment Operators
348-352	Telephone operators (4732)
353	Communications equipment operators, n.e.c. (4733, 4739)
354-358	Mail and Message Distributing Occupations
354	Postal clerks, except mail carriers (4742)
355	Mail carriers, postal service (4743)
356	Mail clerks, except postal service (4744)
357-358	Messengers (4745)
359-374	Material Recording, Scheduling, and Distributing Clerks
359-362	Dispatchers (4751)
363	Production coordinators (4752)
364	Traffic, shipping, and receiving clerks (4753)
365	Stock and inventory clerks (4754)
366	Meter readers (4755)
368-372	Weighers, measurers, checkers, and samplers (4756, 4757)
373	Expeditors (4758)
374	Material recording, scheduling, and distributing clerks, n.e.c. (4759)
375-378	Adjusters and Investigators
375	Insurance adjusters, examiners, and investigators (4782)
376	Investigators and adjusters, except insurance (4783)
377	Eligibility clerks, social welfare (4784)
378	Bill and account collectors (4786)
379-402	Miscellaneous Administrative Support Occupations
379-382	General office clerks (463)
383	Bank tellers (4791)
384	Proofreaders (4782)
385	Data-entry keyers (4793)
386	Statistical clerks (4794)
387-388	Teachers' aides (4796)
389-402	Administrative support occupations, n.e.c. (4787, 4799)

**403-472 SERVICE OCCUPATIONS**

403-412	Private Household Occupations
403	Launderers and ironers (503)
404	Cooks, private household (504)
405	Housekeepers and butlers (505)
406	Child care workers, private household (506)
407-412	Private household cleaners and servants (502, 507, 509)
413-432	Protective Service Occupations
413-415	Supervisors, Protective Service Occupations
413	Supervisors, firefighting and fire prevention occupations (5111)



403-472

**SERVICE OCCUPATIONS—Con.**

414 Supervisors, police and detectives (5112)  
415 Supervisors, guards (5113)  
416-417 Firefighting and Fire Prevention Occupations  
416 Fire inspection and fire prevention occupations (5122)  
417 Firefighting occupations (5123)  
418-424 Police and Detectives  
418-422 Police and detectives, public service (5132)  
423 Sheriffs, bailiffs, and other law enforcement officers (5134)  
424 Correctional Institution officers (5133)  
425-432 Guards  
425 Crossing guards (5142)  
426 Guards and police, except public service (5144)  
427-432 Protective service occupations, n.e.c. (5149)

433-472

**Service Occupations, Except Protective and Household**

433-444 Food Preparation and Service Occupations  
433 Supervisors, food preparation and service occupations (5211)  
434 Bartenders (5212)  
435 Waiters and waitresses (5213)  
436-437 Cooks (5214, 5215)  
438 Food counter, fountain and related occupations (5216)  
439-442 Kitchen workers, food preparation (5217)  
443 Waiters'/waitresses' assistants (5218)  
444 Miscellaneous food preparation occupations (5219)

445-447

**Health Service Occupations**

445 Dental assistants (5232)  
446 Health aides, except nursing (5233)  
447 Nursing aides, orderlies, and attendants (5236)

448-455

**Cleaning and Building Service Occupations, Except Household**

448 Supervisors, cleaning and building service workers (5241)  
449-452 Maids and housemen (5242, 5249)  
453 Janitors and cleaners (5244)  
454 Elevator operators (5245)  
455 Pest control occupations (5246)

456-472

**Personal Service Occupations**

456 Supervisors, personal service occupations (5251)  
457 Barbers (5252)  
458 Hairdressers and cosmetologists (5253)  
459-460 Attendants, amusement and recreation facilities (5254)  
461 Guides (5255)  
462 Ushers (5256)  
463 Public transportation attendants (5257)  
464 Baggage porters and bellhops (5262)  
465 Welfare service aides (5263)  
466 Family child care providers (part 5264)  
467 Early childhood teacher's assistants (part 5264)  
468 Child care workers, n.e.c. (part 5264)  
469-472 Personal service occupations, n.e.c. (5258, 5269)

**473-502 FARMING, FORESTRY, AND FISHING OCCUPATIONS**

473-476	Farm Operators and Managers
473	Farmers, except horticultural (5512-5514)
474	Horticultural specialty farmers (5515)
475	Managers, farms, except horticultural (5522-5524)
476	Managers, horticultural specialty farms (5525)
477-493	Other Agricultural and Related Occupations
477-484	Farm Occupations, Except Managerial
477-478	Supervisors, farm workers (5611)
479-482	Farm workers (5612-5617)
483	Marine life cultivation workers (5618)
484	Nursery workers (5619)
485-493	Related Agricultural Occupations
485	Supervisors, related agricultural occupations (5621)
486	Groundskeepers and gardeners, except farm (5622)
487	Animal caretakers, except farm (5624)
488	Graders and sorters, agricultural products (5625)
489-493	Inspectors, agricultural products (5627)
494-496	Forestry and Logging Occupations
494	Supervisors, forestry and logging workers (571)
495	Forestry workers, except logging (572)
496	Timber cutting and logging occupations (573, 579)
497-502	Fishers, Hunters, and Trappers
497	Captains and other officers, fishing vessels (part 8241)
498	Fishers (583)
499-502	Hunters and trappers (584)

**503-702 PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS**

503-552	Mechanics and Repairers
503-504	Supervisors, mechanics and repairers (60)
505-552	Mechanics and Repairers, Except Supervisors
505-517	Vehicle and Mobile Equipment Mechanics and Repairers
505-506	Automobile mechanics (part 6111)
506	Automobile mechanic apprentices (part 6111)
507	Bus, truck, and stationary engine mechanics (6112)
508	Aircraft engine mechanics (6113)
509-513	Small engine repairers (6114)
514	Automobile body and related repairers (6115)
515	Aircraft mechanics, except engine (6116)
516	Heavy equipment mechanics (6117)
517	Farm equipment mechanics (6118)
518	Industrial machinery repairers (613)
519-522	Machinery maintenance occupations (614)
523-533	Electrical and Electronic Equipment Repairers
523-524	Electronic repairers, communications and industrial equipment (6151, 6153, 6155)
525	Data processing equipment repairers (6154)
526	Household appliance and power tool repairers (6156)
527-528	Telephone line installers and repairers (6157)
529-532	Telephone installers and repairers (6158)
533	Miscellaneous electrical and electronic equipment repairers (6152, 6159)
534	Heating, air conditioning, and refrigeration mechanics (616)

**503-702****PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.**

535-552

**Miscellaneous Mechanics and Repairers**

535

Camera, watch, and musical instrument repairers (6171, 6172)

536-537

Locksmiths and safe repairers (6173)

538

Office machine repairers (6174)

539-542

Mechanical controls and valve repairers (6175)

543

Elevator installers and repairers (6176)

544-546

Millwrights (6178)

547-548

Specified mechanics and repairers, n.e.c. (6177, 6179)

549-552

Not specified mechanics and repairers

553-612

**Construction Trades**

553-562

**Supervisors, Construction Occupations**

553

Supervisors, brickmasons, stonemasons, and tile setters (6312)

554

Supervisors, carpenters and related workers (6313)

555

Supervisors, electricians and power transmission installers (6314)

556

Supervisors, painters, paperhangers, and plasterers (6315)

557

Supervisors, plumbers, pipefitters, and steamfitters (6316)

558-562

Supervisors, construction, n.e.c. (6311, 6318)

563-612

**Construction Trades, Except Supervisors**

563-564

Brickmasons and stonemasons (part 6412, part 6413)

564

Brickmason and stonemason apprentices (part 6412, part 6413)

565

Tile setters, hard and soft (part 6414, part 6462)

566

Carpet installers (part 6462)

567-572

Carpenters (part 6422)

569-572

Carpenter apprentices (part 6422)

573-574

Drywall installers (6424)

575-576

Electricians (part 6432)

576

Electrician apprentices (part 6432)

577-578

Electrical power installers and repairers (6433)

579-582

Painters, construction and maintenance (6442)

583

Paperhangers (6443)

584

Plasterers (6444)

585-587

Plumbers, pipefitters, and steamfitters (part 645)

587

Plumber, pipefitter, and steamfitter apprentices (part 645)

588

Concrete and terrazzo finishers (6463)

589-592

Glaziers (6464)

593

Insulation workers (6465)

594

Paving, surfacing, and tamping equipment operators (6466)

595

Roofers (6468)

596

Sheetmetal duct installers (6472)

597

Structural metal workers (6473)

598

Drillers, earth (6474)

599-612

Construction trades, n.e.c. (6467, 6475, 6476, 6479)

613-627

**Extractive Occupations**

613

Supervisors, extractive occupations (652)

614

Drillers, oil well (652)

615

Explosives workers (653)

616

Mining machine operators (654)

617-627

Mining occupations, n.e.c. (656)

628-702

**Precision Production Occupations**

628-633

Supervisors, production occupations (67, 71)

634-656

Precision Metal Working Occupations

**503-702      PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.**

634-635	Tool and die makers (part 6811)
635	Tool and die maker apprentices (part 6811)
636	Precision assemblers, metal (6812)
637-642	Machinists (part 6813)
639-642	Machinist apprentices (part 6813)
643	Boilermakers (6814)
644	Precision grinders, filers, and tool sharpeners (6816)
645	Patternmakers and model makers, metal (6817)
646	Lay-out workers (6821)
647-648	Precious stones and metals workers (Jewelers) (6822, 6866)
649-652	Engravers, metal (6823)
653-654	Sheet metal workers (part 6824)
654	Sheet metal worker apprentices (part 6824)
655	Miscellaneous precision metal workers (6829)
656-665	Precision Woodworking Occupations
658	Patternmakers and model makers, wood (6831)
657	Cabinet makers and bench carpenters (6832)
658	Furniture and wood finishers (6835)
659-665	Miscellaneous precision woodworkers (6839)
666-674	Precision Textile, Apparel, and Furnishings Machine Workers
666	Dressmakers (part 6852, part 7752)
667	Tailors (part 6852)
668	Upholsterers (6853)
669-673	Shoe repairers (6854)
674	Miscellaneous precision apparel and fabric workers (6856, 6859, part 7752)
675-685	Precision Workers, Assorted Materials
675	Hand molders and shapers, except jewelers (6861)
676	Patternmakers, lay-out workers, and cutters (6862)
677	Optical goods workers (6864, part 7477, part 7677)
678	Dental laboratory and medical appliance technicians (6865)
679-682	Bookbinders (6844)
683	Electrical and electronic equipment assemblers (6867)
684-685	Miscellaneous precision workers, n.e.c. (6869)
686-688	Precision Food Production Occupations
686	Butchers and meat cutters (6871)
687	Bakers (6872)
688	Food batchmakers (6873, 6879)
689-693	Precision Inspectors, Testers, and Related Workers
689-692	Inspectors, testers, and graders (6881, 6882)
693	Adjusters and calibrators (6882)
694-702	Plant and System Operators
694	Water and sewage treatment plant operators (691)
695	Power plant operators (part 693)
696-698	Stationary engineers (part 693, 7668)
699-702	Miscellaneous plant and system operators (692, 694, 695, 696)

**703-802      OPERATORS, FABRICATORS, AND LABORERS**

703-802      Machine Operators, Assemblers, and Inspectors

703-782      Machine Operators and Tenders, Except Precision

703-716	Metal Working and Plastic Working Machine Operators
703	Lathe and turning machine set-up operators (7312)
704	Lathe and turning machine operators (7512)
705	Milling and planing machine operators (7313, 7513)
706	Punching and stamping press machine operators (7314, 7317, 7514, 7517)

**703-902****OPERATORS, FABRICATORS, AND LABORERS—Con.**

707	Rolling machine operators (7316, 7516)
708	Drilling and boring machine operators (7318, 7518)
709-712	Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
713	Forging machine operators (7319, 7519)
714	Numerical control machine operators (7326)
715-716	Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)
717-718	Fabricating machine operators, n.e.c. (7339, 7539)
719-725	<b>Metal and Plastic Processing Machine Operators</b>
719-722	Molding and casting machine operators (7315, 7342, 7515, 7542)
723	Metal plating machine operators (7343, 7543)
724	Heat treating equipment operators (7344, 7544)
725	Miscellaneous metal and plastic processing machine operators (7349, 7549)
726-733	<b>Woodworking Machine Operators</b>
726	Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
727	Sawing machine operators (7433, 7633)
728	Shaping and joining machine operators (7435, 7635)
729-732	Nailing and tacking machine operators (7636)
733	Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)
734-737	<b>Printing Machine Operators</b>
734	Printing press operators (7443, 7643)
735	Photoengravers and lithographers (6842, 7444, 7644)
736	Typesetters and compositors (6841, 7642)
737	Miscellaneous printing machine operators (6849, 7449, 7649)
738-752	<b>Textile, Apparel, and Furnishings Machine Operators</b>
738	Winding and twisting machine operators (7451, 7651)
739-742	Knitting, looping, taping, and weaving machine operators (7452, 7652)
743	Textile cutting machine operators (7654)
744	Textile sewing machine operators (7655)
745-746	Shoe machine operators (7656)
747	Pressing machine operators (7657)
748	Laundering and dry cleaning machine operators (6855, 7658)
749-752	Miscellaneous textile machine operators (7459, 7659)
753-762	<b>Machine Operators, Assorted Materials</b>
753	Cementing and gluing machine operators (7661)
754	Packaging and filling machine operators (7462, 7662)
755	Extruding and forming machine operators (7463, 7663)
756	Mixing and blending machine operators (7664)
757	Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
758	Compressing and compacting machine operators (7467, 7667)
759-762	Painting and paint spraying machine operators (7669)
763	Roasting and baking machine operators, food (7472, 7672)
764	Washing, cleaning, and pickling machine operators (7673)
765	Folding machine operators (7474, 7674)
766-767	Furnace, kiln, and oven operators, except food (7675)
768	Crushing and grinding machine operators (part 7477, part 7677)
769-772	Slicing and cutting machine operators (7478, 7678)
773	Motion picture projectionists (part 7479)
774-776	Photographic process machine operators (6863, 6868, 7671)
777-778	Miscellaneous machine operators, n.e.c. (part 7479, 7665, 7679)
779-782	Machine operators, not specified

**703-902****OPERATORS, FABRICATORS, AND LABORERS—Con.**

783-795

Fabricators, Assemblers, and Hand Working Occupations

783

Welders and cutters (7332, 7532, 7714)

784

Solderers and brazers (7333, 7533, 7717)

785

Assemblers (772, 774)

786

Hand cutting and trimming occupations (7753)

787-789

Hand molding, casting, and forming occupations (7754, 7755)

789-792

Hand painting, coating, and decorating occupations (7756)

793-794

Hand engraving and printing occupations (7757)

795

Miscellaneous hand working occupations (7758, 7759)

796-802

Production Inspectors, Testers, Samplers, and Weighers

796

Production inspectors, checkers, and examiners (782, 787)

797

Production testers (783)

798

Production samplers and weighers (784)

799-802

Graders and sorters, except agricultural (785)

803-863

Transportation and Material Moving Occupations

803-822

Motor Vehicle Operators

803

Supervisors, motor vehicle operators (8111)

804-805

Truck drivers (8212-8214)

806-807

Driver-sales workers (8218)

808

Bus drivers (8215)

809-812

Taxicab drivers and chauffeurs (8216)

813

Parking lot attendants (874)

814-822

Motor transportation occupations, n.e.c. (8219)

823-842

Transportation Occupations, Except Motor Vehicles

823-827

Rail Transportation Occupations

823

Railroad conductors and yardmasters (8113)

824

Locomotive operating occupations (8232)

825

Railroad brake, signal, and switch operators (8233)

826-827

Rail vehicle operators, n.e.c. (8239)

828-842

Water Transportation Occupations

828

Ship captains and mates, except fishing boats (part 8241, 8242)

829-832

Sailors and deckhands (8243)

833

Marine engineers (8244)

834-842

Bridge, lock, and lighthouse tenders (8245)

843-863

Material Moving Equipment Operators

843

Supervisors, material moving equipment operators (812)

844

Operating engineers (8312)

845-847

Longshore equipment operators (8313)

848

Hoist and winch operators (8314)

849-852

Crane and tower operators (8315)

853-854

Excavating and loading machine operators (8316)

855

Grader, dozer, and scraper operators (8317)

856-858

Industrial truck and tractor equipment operators (8318)

859-863

Miscellaneous material moving equipment operators (8319)

864-902

Handlers, Equipment Cleaners, Helpers, and Laborers

864

Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)

865

Helpers, mechanics, and repairers (863)

866-868

Helpers, Construction, and Extractive Occupations

866

Helpers, construction trades (8641-8645, 8648)

867

Helpers, surveyor (8646)

**703-902 OPERATORS, FABRICATORS, AND LABORERS—Con.**

868 Helpers, extractive occupations (865)  
869-873 Construction laborers (871)  
874 Production helpers (861, 862)  
875-884 Freight, Stock, and Material Handlers  
875 Garbage collectors (8722)  
876 Stevedores (8723)  
877 Stock handlers and baggers (8724)  
878-882 Machine feeders and offbearers (8725)  
883-884 Freight, stock, and material handlers, n.e.c. (8726)  
885-886 Garage and service station related occupations (873)  
887 Vehicle washers and equipment cleaners (875)  
888 Hand packers and packagers (8761)  
889-902 Laborers, except construction (8769)

**903-908 MILITARY OCCUPATIONS (Includes only uniquely military occupations.  
Other Armed Forces members are coded to civilian occupations.)**

903 Commissioned officers and warrant officers  
904 Non-commissioned officers and other enlisted personnel  
905-908 Military occupation, rank not specified

**909-999 EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY OCCUPATION**

909-999 Unemployed, last worked 1984 or earlier

## PLACE OF BIRTH

This section contains the code list for place of birth. An alphabetical list of U.S. States and territories, foreign countries, and other areas was used to assign a three-digit code to the birthplace reported by each person. The alphabetical list used in coding included abbreviations and alternate names, including some historical names for countries and names of States, provinces, counties, or other subdivisions of countries.

The following list does not include any of these alternate names, but does include continent and area names used as defaults if a specific country was not named but a broader region or area of birth was reported. The names for foreign countries shown on this list and in the publications reflect the most commonly used names in this country, not their official or legal names. Each entry shown on the following list has a unique code.

The U.S. States and territories were assigned their Federal Information Processing Standards (FIPS) code preceded by a zero. For foreign countries, codes were generally assigned by listing the countries or areas in alphabetical order (followed by default codes) within eight broad continent or regional areas: (1) Europe, (2) Asia, (3) North America, (4) Central America, (5) Caribbean, (6) South America, (7) Africa, and (8) Oceania. The entries for the USSR and the Baltic States are listed following the other entries for Europe for convenience in combining with either Europe or Asia. The entries for Germany also do not follow strict alphabetical order; codes 110-114 can be combined to tabulate an overall figure including Germany (not specified), East Germany, West Germany, and Berlin. The entries for the United Kingdom also do not follow strict alphabetical order; codes 139-145 can be combined to tabulate an overall figure including United Kingdom (not specified), England, Scotland, Wales, Northern Ireland, Guernsey, Jersey, and the Isle of Man. The codes for Asia also include a code for Korea (not specified) since it is often reported in that fashion.

001-059	United States	001-059	United States—Con.
001	Alabama	041	Oregon
002-003	Alaska	042-043	Pennsylvania
004	Arizona	044	Rhode Island
005	Arkansas	045	South Carolina
006-007	California	046	South Dakota
008	Colorado	047	Tennessee
009	Connecticut	048	Texas
010	Delaware	049	Utah
011	District of Columbia	050	Vermont
012	Florida	051-052	Virginia
013-014	Georgia	053	Washington
015	Hawaii	054	West Virginia
016	Idaho	055	Wisconsin
017	Illinois	056-059	Wyoming
018	Indiana		
019	Iowa	060-099	U.S. Outlying Areas and Puerto Rico
020	Kansas	060-065	American Samoa
021	Kentucky	066	Guam
022	Louisiana	067-068	Johnston Atoll
023	Maine	069-070	Northern Mariana Islands
024	Maryland	071	Midway Islands
025	Massachusetts	072-075	Puerto Rico
026	Michigan	076-077	Navassa Island
027	Minnesota	078	U.S. Virgin Islands
028	Mississippi	079-080	Wake Island
029	Missouri	081-083	Baker Island
030	Montana	084-085	Howland Island
031	Nebraska	086-088	Jarvis Island
032	Nevada	089-094	Kingman Reef
033	New Hampshire	095	Palmyra Atoll
034	New Jersey	096-099	U.S. territory, not specified
035	New Mexico		
036	New York		
037	North Carolina	100-199	Europe
038	North Dakota	100	Albania
039	Ohio	101	Andorra
040	Oklahoma	102	Austria



100-199	Europe—Con.	100-199	Europe—Con.
103	Belgium	183	Latvia
104	Bulgaria	184-199	Lithuania
105	Czechoslovakia		
106	Denmark	200-299	Asia
107	Faroe Islands	200	Afghanistan
108	Finland	201	Bahrain
109	France	202	Bangladesh
110	Germany, not specified	203	Bhutan
111	West Germany	204	Brunei
112	West Berlin	205	Burma
113	East Berlin	206	Cambodia
114	East Germany	207	China
115	Gibraltar	208	Cyprus
116	Greece	209	Hong Kong
117	Hungary	210	India
118	Iceland	211	Indonesia
119	Ireland	212	Iran
120	Italy	213	Iraq
121	Jan Mayen	214	Israel
122	Liechtenstein	215	Japan
123	Luxembourg	216	Jordan
124	Malta	217	Korea, not specified
125	Monaco	218	South Korea
126	Netherlands	219	North Korea
127	Norway	220	Kuwait
128	Poland	221	Laos
129	Portugal	222	Lebanon
130	Azores Islands	223	Macau
131	Madeira Islands	224	Malaysia
132	Romania	225	Maldives
133	San Marino	226	Mongolia
134	Spain	227	Nepal
135	Svalbard	228	Oman
136	Sweden	229	Pakistan
137	Switzerland	230	Paracel Islands
138	United Kingdom, not specified	231	Philippines
139	England	232	Qatar
140	Scotland	233	Saudi Arabia
141	Wales	234	Singapore
142	Northern Ireland	235	Spratley Islands
143	Guernsey	236	Sri Lanka
144	Jersey	237	Syria
145	Isle of Man	238	Taiwan
146	Vatican City	239	Thailand
147	Yugoslavia	240	Turkey
148	Europe, not specified	241	United Arab Emirates
149	Central Europe, not specified	242	Vietnam
150	Eastern Europe, not specified	243	Yemen, People's Democratic Republic
151	Lapland, not specified	244	Yemen Arab Republic
152	Northern Europe, not specified	245	Asia, not specified
153	Southern Europe, not specified	246	Asia Minor, not specified
154-179	Western Europe, not specified	247	East Asia, not specified
180	Union of Soviet Socialist Republics (USSR)	248	Gaza Strip
181	Baltic States, not specified	249	Indochina, not specified
182	Estonia	250	Iraq-Saudi Arabia Neutral Zone
		251	Mesopotamia, not specified

**200-299****Asia—Con.**

252 Middle East, not specified  
 253 Palestine, not specified  
 254 Persian Gulf States, not specified  
 255 Southeast Asia, not specified  
 255-299 West Bank

**300-399****America****300-309****North America**

300 Bermuda  
 301 Canada  
 302 Greenland  
 303 St. Pierre and Miquelon  
 304-309 North America, not specified

**310-329****Central America**

310 Belize  
 311 Costa Rica  
 312 El Salvador  
 313 Guatemala  
 314 Honduras  
 315 Mexico  
 316 Nicaragua  
 317 Panama  
 318-329 Central America, not specified

**330-374****Caribbean**

330 Anguilla  
 331 Antigua and Barbuda  
 332 Aruba  
 333 Bahamas  
 334 Barbados  
 335 British Virgin Islands  
 336 Cayman Islands  
 337 Cuba  
 338 Dominica  
 339 Dominican Republic  
 340 Grenada  
 341 Guadeloupe  
 342 Haiti  
 343 Jamaica  
 344 Martinique  
 345 Montserrat  
 346 Netherlands Antilles  
 347 St. Barthélemy  
 348 St. Kitts-Nevis  
 349 St. Lucia  
 350 St. Vincent and the Grenadines  
 351 Trinidad and Tobago  
 352 Turks and Caicos Islands  
 353 Caribbean, not specified  
 354 Antilles, not specified  
 355 British West Indies, not specified  
 356 Latin America, not specified

**330-374****Caribbean—Con.**

357 Leeward Islands, not specified  
 358 West Indies, not specified  
 359-374 Windward Islands, not specified

**375-399****South America**

375 Argentina  
 376 Bolivia  
 377 Brazil  
 378 Chile  
 379 Colombia  
 380 Ecuador  
 381 Falkland Islands  
 382 French Guiana  
 383 Guyana  
 384 Paraguay  
 385 Peru  
 386 Suriname  
 387 Uruguay  
 388 Venezuela  
 389-399 South America, not specified

**400-499****Africa**

400 Algeria  
 401 Angola  
 402 Bassas da India  
 403 Benin  
 404 Botswana  
 405 British Indian Ocean Territory  
 406 Burkina Faso  
 407 Burundi  
 408 Cameroon  
 409 Cape Verde  
 410 Central African Republic  
 411 Chad  
 412 Comoros  
 413 Congo  
 414 Djibouti  
 415 Egypt  
 416 Equatorial Guinea  
 417 Ethiopia  
 418 Europa Island  
 419 Gabon  
 420 Gambia  
 421 Ghana  
 422 Glorioso Islands  
 423 Guinea  
 424 Guinea-Bissau  
 425 Ivory Coast  
 426 Juan de Nova Island  
 427 Kenya  
 428 Lesotho  
 429 Liberia  
 430 Libya  
 431 Madagascar  
 432 Malawi  
 433 Mali

<b>400-499</b>	<b>Africa—Con.</b>	<b>500-553</b>	<b>Oceania</b>
434	Mauritania	500	Ashmore and Cartier Islands
435	Mayotte	501	Australia
436	Morocco	502	Christmas Island, Indian Ocean
437	Mozambique	503	Clipperton Island
438	Namibia	504	Cocos Islands
439	Niger	505	Cook Islands
440	Nigeria	506	Coral Sea Islands
441	Reunion	507	Fiji
442	Rwanda	508	French Polynesia
443	Sao Tome and Principe	509	Kiribati
444	Senegal	510	Marshall Islands
445	Mauritius	511	Micronesia
446	Seychelles	512	Nauru
447	Sierra Leone	513	New Caledonia
448	Somalia	514	New Zealand
449	South Africa	515	Niue
450	St. Helena	516	Norfolk Island
451	Sudan	517	Palau
452	Swaziland	518	Papua New Guinea
453	Tanzania	519	Pitcairn Islands
454	Togo	520	Solomon Islands
455	Tromelin Island	521	Tokelau
456	Tunisia	522	Tonga
457	Uganda	523	Tuvalu
458	Western Sahara	524	Vanuatu
459	Zaire	525	Wallis and Futuna Islands
460	Zambia	526	Western Samoa
461	Zimbabwe	527	Oceania, not specified
462	Africa, not specified	528	Polynesia, not specified
463	Central Africa, not specified	529-549	Melanesia, not specified
464	Eastern Africa, not specified	550	Antarctica
465	Equatorial Africa, not specified	551	Bouvet Island
466	French Equatorial Africa, not specified	552	French Southern and Antarctic Lands
467	French West Africa, not specified	553	Heard and McDonald Islands
468	North Africa, not specified		
469	Western Africa, not specified	<b>554-999</b>	<b>At Sea/Abroad, Not Specified</b>
470-499	Southern Africa, not specified	554	At sea
		555-999	Abroad, not specified

## RACE

This section contains the alphabetical code list for race and American Indian tribes. The list of race groups and American Indian tribes with their associated 3-digit numerical code was used to code the Asian or Pacific Islander, American Indian, Eskimo, or Aleut, and the Other race write-in entries. A separate set of 3-digit numerical codes were used to identify FOSDIC circles for the race categories listed in the race item on the questionnaire. These codes and their respective race categories are: White-971, Black or Negro-972, Indian (Amer.)-973, Eskimo-974, Aleut-975, Chinese-976, Filipino-977, Hawaiian-978, Korean-979, Vietnamese-980, Japanese-981, Asian Indian-982, Samoan-983, Guamanian-984, Other Asian or Pacific Islander-985, and Other race-986.

### 000-599, 973 American Indian

000-001	Ahtna
002	Elorka
003	Reserve American Indian 1
004-005	Bristol Bay
006	Chaneliak
007	Chugach
008	Tanaina
009	Doyon
010	Kodlak
011	Reserve American Indian 2
012	Sealaska
013	Umpqua
014	Alaskan Athabaskan
015	Alaska Native
016	Haida
017	Tlingit
018	Tsimshian
019	Alaska Indian
020	Chehalis
021	Chemakum
022	Klallam
023	Jamestown
024	Lower Elwha
025	Port Gamble Klallam
026	Coquilles
027	Cowlitz
028	Lummi
029	Nooksack
030	Puget Sound Salish
031	Duwamish
032	Kiklallus
033	Lower Skagit
034	Muckleshoot
035	Nisqually
036	Puyallup
037	Samish
038	Sauk-Suiattle
039	Upper Skagit
040	Skykomish
041	Snohomish
042	Snoqualmie
043	Squaxin Island
044	Stellacoom
045	Stillaguamish
046	Suquamish
047	Swinomish
048	Tulalip

### 000-599, 973 American Indian—Con.

049	Port Madison
050	Quinault
051	Quileute
052	Hoh
053	Makah
054	Talakamish
055	Chinook
056	Clatsop
057	Kathlamet
058	Columbia River Chinook
059	Upper Chinook
060	Waklatum Chinook
061	Willapa Chinook
062	Alsea
063	Cayuse
064	Celilo
065	Coos
066	Kalapuya
067	Klamath
068	Molala
069	Oregon Athabaskan
070	Stuslaw
071	Takelma
072	Tenino
073	Tillamook
074	Tygh
075	Umatilla
076	Walla-Walla
077	Yahoeskin
078	Yakima
079	Skokomish
080	Agua Caliente Cahuilla
081	Augustine
082	Cabazon
083	Cahto
084	Cahuilla
085	Campo
086	Capitan Grande
087	Chemehuevi
088	Chimariko
089	Chumash
090	Costanoan
091	Cupeno
092	Cuyapaipe
093	Diegueno
094	Digger
095	Gabrieleno
096	Hoop
097	Inaja Cosmit

## 000-599, 973 American Indian—Con.

098	Karok
099	Kawailisu
100	La Jolla
101	Lasak
102	La Posta
103	Luiseno
104	Maidu
105	Manzanita
106	Mesa Grande
107	Mountain Maidu
108	Nishnam
109	Konkow
110	Mattole
111	Miwok
112	Coast Miwok
113	Modoc
114	Mono
115	Nomlaki
116	Pala
117	Pechanga
118	Pauma
119	Pit River
120	Pomo
121	Dry Creek
122	Northern Pomo
123	Kashaya
124	Central Pomo
125	Stonyford
126	Eastern Pomo
127	Sulphur Bank
128	Salinan
129	San Manuel
130	San Pascual
131	Santa Rosa Cahulla
132	Santa Ynez
133	Santa Ysabel
134	Serrano
135	Shasta
136	Soboba
137	Sycuan
138	Tolowa
139	Torres-Martinez
140	Kern River
141	Tule River
142	Twenty-Nine Palms
143	Wailaki
144	Wappo
145	Whilkut
146	Wintu
147	Wiyot
148	Yana
149	Yokuts
150	Tachi
151	Chukchansi
152	Yuki
153	Yurok

## 000-599, 973 American Indian—Con.

154	Reserve American Indian 3
155	Columbia
156	Kallispel
157	Salish
158	Coeur D'Alene
159	Colville
160	Spokane
161	Nez Perce
162	Washo
163	Alpine
164	Carson
165	Dresslerville
166	Stewart
167	Wishram
168	Hoopa Extension
169	Trinity
170	Ute
171	Allen Canyon
172	Uintah Ute
173	Ute Mountain Ute
174	Shoshone Paiute
175	Paiute
176	Northern Paiute
177	Cedarville
178	Pyramid Lake
179	Fort Bidwell
180	Las Vegas
181	Lovelock
182	Utu Utu Gwailtu Paiute
183	Fort Independence
184	Bridgeport
185	Burns Paiute
186	Yerington Paiute
187	Walker River
188	Southern Paiute
189	Kaibab
190	Moapa
191	Owens Valley
192	Summit Lake
193	Arrostook
194	Reserve American Indian 5
195	Shoshone
196	Battle Mountain
197	Duck Water
198	Elko
199	Ely
200	Goshute
201	Panamint
202	Ruby Valley
203	South Fork Shoshone
204	Washakie
205	Yomba
206	Te-Moak Western Shoshone
207	Bannock
208	Kootenai
209-210	Havasupai
211	Hualapai

000-599, 973 American Indian—Con.

212	Yavapai
213	Maricopa
214	Quechan
215	Cocopah
216	Mohave
217	Pima
218	Tohono O'Odham
219	Gila Bend
220	Ak-Chin
221	San Xavier
222	Sells
223	Yaqui
224	Pascua Yaqui
225	Barro Libre
226	Mississippi Choctaw
227	Reserve American Indian 6
228	Jena Choctaw
229	Pueblo
230	Tigua
231	Taos
232	Picuris
233	Sandia
234	Isleta
235	Keres
236	Acoma
237	Cochiti
238	Laguna
239	San Felipe
240	Santa Ana
241	Santo Domingo
242	Zia
243	Tewa
244	Nambe
245	Pojoaque
246	San Ildefonso
247	San Juan Pueblo
248	Santa Clara
249	Tesuque
250	Arizona Tewa
251	Jemez
252	Hopi
253	Zuni
254	San Juan de
255	Apache
256	Oklahoma Apache
257	Jicarilla Apache
258	Lipan Apache
259	Mescalero Apache
260	Chiricahua
261	Fort Sill Apache
262	San Carlos Apache
263	Payson Apache
264	White Mountain Apache
265	Reserve American Indian 7
266	Reserve American Indian 8
267	Reserve American Indian 9

000-599, 973 American Indian—Con.

268	Reserve American Indian 10
269	Reserve American Indian 11
270	Reserve American Indian 12
271	Reserve American Indian 13
272	Reserve American Indian 14
273	Reserve American Indian 15
274	Reserve American Indian 16
275	Navajo
276	Kiowa
277	Tonkawa
278	Oklahoma Caddo
279	Arkara
280	Oklahoma Pawnee
281	Wichita
282	Sioux
283	Cheyenne River Sioux
284	Crow Creek Sioux
285	Devils Lake Sioux
286	Flandreau Santee
287	Fort Peck
288	Standing Rock Sioux
289	Lake Traverse Sioux
290	Lower Sioux
291	Pine Ridge Sioux
292	Pipestone Sioux
293	Prairie Island Sioux
294	Prior Lake
295	Rosebud Sioux
296	Upper Sioux
297	Sisseton-Wahpeton Sioux
298	Teton Sioux
299	Brule Sioux
300	Lower Brule Sioux
301	Sans Arc Sioux
302	Two Kettle Sioux
303	Blackfoot Sioux
304	Oglala Sioux
305	Miniconjou
306	Yanktonai Sioux
307	Yankton Sioux
308	Santee Sioux
309	Sisseton Sioux
310	Mdewakanton Sioux
311	Wahpekute Sioux
312	Wahpeton Sioux
313	Assiniboine
314	Iowa
315	Otoe-Missouria
316	Winnebago
317	Kaw
318	Omaha
319	Ponca
320	Osage
321	Quapaw
322	Crow
323	Hidatsa
324	Mandan

## 000-599, 973 American Indian—Con.

325	Comanche
326	Dakota Sioux
327	Wazhaza Sioux
328	Nebraska Winnebago
329	Wisconsin Winnebago
330	Chippewa
331	Bay Mills Chippewa
332	Sault Ste. Marie Chippewa
333	Saginaw Chippewa
334	Keweenaw
335	Lac Vieux Desert Chippewa
336	Ortonagon
337	Leelanau
338	Minnesota Chippewa
339	Boise Forte
340	Grand Portage
341	Fond Du Lac
342	Leech Lake
343	Mille Lac
344	White Earth
345	Red Lake Chippewa
346	Lake Superior
347	Bad River
348	Lac Courte Oreilles
349	Lac Du Flambeau
350	Red Cliff Chippewa
351	St. Croix Chippewa
352	Sokoagon Chippewa
353	Turtle Mountain
354	Rocky Boy's Cree
355	Burt Lake Chippewa
356	Burt Lake Band
357	Reserve American Indian 19
358	Reserve American Indian 20
359	Burt Lake Ottawa
360	Blackfoot
361	Cheyenne
362	Northern Cheyenne
363	Southern Cheyenne
364	Arapaho
365	Atsina
366	Menominee
367	Potawatomi
368	Citizen Band Potawatomi
369	Forest County
370	Hannahville
371	Huron Potawatomi
372	Pogagon Potawatomi
373	Prairie Band
374	Wisconsin Potawatomi
375	Ottawa
376	Miami
377	Sac and Fox
378	Peoria
379	Sac and Fox-Mesquakie
380	Kickapoo

## 000-599, 973 American Indian—Con.

381	Shawnee
382	Algonquian
383	Micmac
384	Mailseet
385	Passamaquoddy
386	Pleasant Point Passamaquoddy
387	Indian Township
388	Penobscot
389	Abenaki
390	Wampanbag
391	Nipmuc
392	Narragansett
393	Pequot
394	Mohegan
395	Paugussett
396	Schaghticoke
397	Brotherton
398	Shinnecock
399	Stockbridge
400	Munsee
401	Delaware
402	Sand Hill
403	Absentee Shawnee
404	Clifton Choctaw
405	Iroquois
406	Seneca
407	Seneca Nation
408	Tonawanda Seneca
409	Seneca-Cayuga
410	Cayuga
411	Onondaga
412	Oneida
413	Mohawk
414	Tuscarora
415	Wyandotte
416	Cherokee
417	Eastern Cherokee
418	Western Cherokee
419	Etowah Cherokee
420	United Keetoowah Band
421	Tuscola
422	Northern Cherokee
423	Eastern Muskogee
424	Agua Caliente
425	Creek
426	Thlopthlocco
427	Yuchi
428	Hitchiti
429	Eastern Creek
430	Principal Creek Indian Nation
431	Poarch Band
432	Lower Muskogee
433	Alabama Coushatta
434	Choctaw
435	Houma
436	Chickasaw
437	Miccosukee

## 000-599, 973 American Indian—Con.

438	Seminole
439	Oklahoma Seminole
440	Florida Seminole
441	Big Cypress
442	Brighton
443	Hollywood Seminole
444	Natchez
445	Matinecock
446	Montauk
447	Poospatuck
448	Setauket
449	Tuckabachee
450	Nanticoke
451	Piscataway
452	Nansemond
453	Chickahominy
454	Pamunkey
455	Mattaponi
456	Rappahannock
457	Attacapa
458	Bliloxi
459	Catawba
460	Chitimacha
461	Coharie
462	Croatan
463	Hallwa
464	Lumbee
465	Moor
466	Powhatan
467	Tunica
468	Wesort
469	Southeastern Indians
470	Cajun
471	Coushatta
472	Reserve American Indian 23
473	Reserve American Indian 24
474	Reserve American Indian 25
475	Reserve American Indian 26
476	Colorado River
477	Duck Valley
478	Fallon
479	Fort Belknap
480	Fort Berthold
481	Fort Hall
482	Fort McDermitt
483	Fort McDowell
484	Cow Creek Umpqua
485	Gila River
486	Grand Ronde
487	Los Coyotes
488	Mission Indians
489	Morongo
490	Reno-Sparks
491	Round Valley
492	Shoalwater
493	Siletz
494	Skull Valley

## 000-599, 973 American Indian—Con.

495	Susanville
496	Table Bluff
497	Wascopum
498	Wind River
499	Winnemucca
500	Yavapai Apache
501	Reserve American Indian 27
502	Gros Ventres
503	Scott Valley
504	Warm Springs
505	Santa Rosa
506	San Juan
507	Red Wood
508	Salish and Kootenai
509	Georgetown
510	Clear Lake
511	Yakima Cowlitz
512	Scotts Valley
513	Cheyenne-Arapaho
514	Northern Arapaho
515	Southern Arapaho
516	Masspee Wampanoag
517	Gay Head Wampanoag
518	Timbi-Sha Shoshone
519	Juaneno
520	Oklahoma Choctaw
521	Oklahoma Modoc
522	Oklahoma Kiowa
523	Oklahoma Comanche
524	Oklahoma Iowa
525	Canadian Indian
526	Oklahoma Ponca
527	Oklahoma Ottawa
528	Oklahoma Miami
529	Oklahoma Peoria
530	Oklahoma Sac and Fox
531	Oklahoma Kickapoo
532	Oklahoma Delaware
533	Caddo
534	Pawnee
535	Michigan Ottawa
536	Indiana Miami
537	Missouri Sac and Fox
538	Eastern Shawnee
539	Cherokee Shawnee
540	Kalegee
541	Alabama Quassarte
542	Malheur Paiute
543	Wenatchee
544	Little Shell Chippewa
545	Illinois
546	Rampough Mountain
547	Lenni-Lenape
548	Amerind White
549	Amerind Black
550	Mexican American Indian
551	Central American Indian



**000-599, 973 American Indian—Con.**

552	South American Indian
553	French American Indian
554	Spanish American Indian
555	Cherokees of Southeast Alabama
556	Cherokees of Northeast Alabama
557	Echota Cherokee
558	MaChis Lower Creek Indian
559	MOWA Band of Choctaw
560	Star Clan of Muskogee Creeks
561	Eastern Delaware
562	Charokee Alabama
563	Reserve American Indian 36
564	Reserve American Indian 37
565	Mexican Indian Cherokee
566	Eastern Chickahominy
567	Western Chickahominy
568	Waccamaw-Siouan
569	Nausu Walwash
570	Pocomoke Acohonock
571	Susquehannock
572	Wilcomloo
573	Piro
574	Illinois Miami
575	Tunica Biloxi
576-597	American Indian
598	Tribal response, not elsewhere classified
599	Reserve American Indian 38
973	American Indian (FOSD/C circle)

**600-699, 976-985 Asian or Pacific Islander**

**600-652, 976, 977, 979-982, 985 Asian**

600	Asian Indian
601	Bangladeshi
602	Bhutanese
603	Burmese
604	Cambodian (Kampuchean)
605	Chinese
606	Taiwanese
607	Formosan
608	Filipino
609	Hmong
610	Indonesian
611	Japanese
612	Korean
613	Laotian
614	Malayan
615	Okinawan
616	Pakistani
617	Sri Lankan
618	Thai
619	Vietnamese
620	Amerasian
621	Asian
622	Asiatic

**600-652, 976, 977, 979-982, 985 Asian—Con.**

623	Eurasian
624	Mongolian
625	Oriental
626	Whello
627	Yellow
628	Borneo
629	Celebesian
630	Ceram
631	Indo-Chinese
632	Iwo Jima
633	Javanese
634	Maldian
635	Nepali
636	Sikkim
637	Singaporean
638	Sumatran
639	Madagascar
640	Reserve Asian 2
641	Reserve Asian 3
642	Reserve Asian 4
643	Reserve Asian 5
644	Reserve Asian 6
645	Reserve Asian 7
646	Reserve Asian 8
647	Reserve Asian 9
648	Reserve Asian 10
649	Reserve Asian 11
650	Reserve Asian 12
651	Reserve Asian 13
652	Reserve Asian 14
976	Chinese (FOSD/C circle)
977	Filipino (FOSD/C circle)
979	Korean (FOSD/C circle)
980	Vietnamese (FOSD/C circle)
981	Japanese (FOSD/C circle)
982	Asian Indian (FOSD/C circle)
985	Other Asian or Pacific Islander (FOSD/C circle)

**653-699, 978, 983, 984 Pacific Islander**

**653-659, 978, 983 Polynesian**

653	Hawaiian
654	Part Hawaiian
655	Samoa
656	Tahitian
657	Tongan
658	Polynesian
659	Tokelauan
978	Hawaiian (FOSD/C circle)
983	Samoa (FOSD/C circle)

**660-675, 984 Micronesian**

660	Guamanian
661	Mariana Islander
662	Marshallese

**660-675, 984 Micronesian—Con.**

663	Palauan
664	Bikini
665	Carolinian
666	Eniwetok
667	Kosraean
668	Kwajalein
669	Micronesian
670	Ponapean (Pohnpeian)
671	Salipanese
672	Tarawa Islander
673	Tinian
674	Trukese (Chuukese)
675	Yapese
984	Guamanian (FOSDIC circle)

**676-680 Melanesian**

676	Fijian
677	Melanesian
678	Papua New Guinean
679	Solomon Islander
680	New Hebrides

**681-699 Other Pacific Islander**

681	Pacific Islander
682	Reserve Pacific Islander 1
683	Reserve Pacific Islander 2
684	Reserve Pacific Islander 3
685	Reserve Pacific Islander 4
686	Reserve Pacific Islander 5
687	Reserve Pacific Islander 6
688	Reserve Pacific Islander 7
689	Reserve Pacific Islander 8
690	Reserve Pacific Islander 9
691	Reserve Pacific Islander 10
692	Reserve Pacific Islander 11
693	Reserve Pacific Islander 12
694	Reserve Pacific Islander 13
695	Reserve Pacific Islander 14
696	Asian or Pacific Islander
697	Reserve Asian or Pacific Islander 1
698	Reserve Asian or Pacific Islander 2
699	Reserve Asian or Pacific Islander 3

**700-799, 986, 987-999 Other Race****700-748 Hispanic Origin**

700	Argentinian
701	Bolivian
702	Boricua
703	Californio
704	Central American
705	Chicano
706	Chilean
707	Colombian
708	Costa Rican
709	Cuban
710	Dominican
711	Ecuadorian (Ecuadorian)

**700-748 Hispanic Origin—Con.**

712	Salvadoran
713-714	Galapagos
715	Guajiro
716	Guatemalan
717	Hispanic
718	Honduran
719	La Raza
720	Latin American
721	Mestizo
722	Mexican
723	Nicaraguan
724	Panamanian
725	Paraguayo
726	Peruvian
727	Puerto Rican
728	Morena
729	South American
730	Spanish
731	Spanish-American
732	Spanish-Mexican
733	Sudamericano
734	Uruguayan
735	Venezuelan
736	Reserve Hispanic 2
737	Reserve Hispanic 3
738	Reserve Hispanic 4
739	Reserve Hispanic 5
740	Reserve Hispanic 6
741	Reserve Hispanic 7
742	Reserve Hispanic 8
743	Reserve Hispanic 9
744	Reserve Hispanic 10
745	Reserve Hispanic 11
746	Reserve Hispanic 12
747	Reserve Hispanic 13
748	Reserve Hispanic 14

**749-799, 986, 987-999 Not of Hispanic Origin**

749-750	Brava
751	Brazil
752	Brown
753	Bushwacker
754	Cajun
755	Cape Verdean
756	Chocolate
757	Coe Clan
758	Coffee
759	Cosmopolitan
760	Issues
761	Jackson White
762	Lapp
763	Melungeon
764	Mixed
765	Ramp
766	Tunica
767	Wesort

**749-799, 986, 987-999 Not of Hispanic Origin—Con.**

768	Mulatto
769	Moor
770	Biracial/Interracial
771	Creole
772	Indian
773	Turk
774	Half-Breed
775	Rainbow
776	Octoroon
777	Quadroon
778	Reserve Non-Hispanic 3
779	Reserve Non-Hispanic 4
780	Reserve Non-Hispanic 5
781	Reserve Non-Hispanic 6
782	Reserve Non-Hispanic 7
783	Reserve Non-Hispanic 8
784	Reserve Non-Hispanic 9
785	Reserve Non-Hispanic 10
786	Reserve Non-Hispanic 11
787	Reserve Non-Hispanic 12
788	Reserve Non-Hispanic 13
789	Reserve Non-Hispanic 14
790	Reserve Non-Hispanic 15
791	Reserve Non-Hispanic 16
792	Reserve Non-Hispanic 17
793	Reserve Non-Hispanic 18
794	Reserve Non-Hispanic 19
795	Reserve Non-Hispanic 20
796	Reserve Non-Hispanic 21
797	Reserve Non-Hispanic 22
798	Trinidad
799	Other race, not elsewhere classified
986	Other race (FOSDIC circle)
987-999	Reserve Other race

**800-869, 971 White**

800	White
801	Arab
802	English
803	French
804	German
805	Irish
806	Italian
807	Near Easterner
808	Polish
809	Scottish
810	White and Black
811	White AmerInd
812	White Chinese
813	White Formosan/Taiwanese
814	White Filipino
815	White Hawaiian
816	White Korean
817	White Vietnamese
818	White Japanese

**800-869, 971 White—Con.**

819	White Asian Indian
820	White Samoan
821	White Guamanian
822	White Bangladeshi
823	White Burmese
824	White Cambodian (Kampuchean)
825	White Hmong
826	White Indonesian
827	White Laotian
828	White Malayan
829	White Okhawan
830	White Pakistani
831	White Sri Lankan
832	White Thai
833	White Fijian
834	White Palauan
835	White Tahitian
836	White Tongan
837	White Other Asian or Pacific Islander
838	White Eskimo
839	White Aleut
840	Reserve White 3
841	Reserve White 4
842	Reserve White 5
843	Reserve White 6
844	Reserve White 7
845	Reserve White 8
846	Reserve White 9
847	Reserve White 10
848	Reserve White 11
849	Reserve White 12
850	Reserve White 13
851	Reserve White 14
852	Reserve White 15
853	Reserve White 16
854	Reserve White 17
855	Reserve White 18
856	Reserve White 19
857	Reserve White 20
858	Reserve White 21
859	Reserve White 22
860	Reserve White 23
861	Reserve White 24
862	Reserve White 25
863	Reserve White 26
864	Reserve White 27
865	Reserve White 28
866	Reserve White 29
867	Reserve White 30
868	Reserve White 31
869	White Cherokee
971	White (FOSDIC circle)

**870-934, 972 Black or Negro**

870	Black
871	African

**870-934, 972 Black or Negro—Con.**

872	African American
873	Afro-American
874	Nigritian
875	Black and White
876	Black Amerind
877	Black Chinese
878	Black Formosan/Taiwanese
879	Black Filipino
880	Black Hawaiian
881	Black Korean
882	Black Vietnamese
883	Black Japanese
884	Black Asian Indian
885	Black Samoan
886	Black Guamanian
887	Black Bangladeshi
888	Black Burmese
889	Black Cambodian (Kampuchean)
890	Black Hmong
891	Black Indonesian
892	Black Laotian
893	Black Malayan
894	Black Okinawan
895	Black Pakistani
896	Black Sri Lankan
897	Black Thai
898	Black Fijian
899	Black Palauan
900	Black Tahitian
901	Black Tongan
902	Black Other Asian or Pacific Islander
903	Black Eskimo
904	Black Aleut
905	Reserve Black 3
906	Reserve Black 4
907	Reserve Black 5
908	Reserve Black 6
909	Reserve Black 7
910	Reserve Black 8
911	Reserve Black 9
912	Reserve Black 10
913	Reserve Black 11
914	Reserve Black 12
915	Reserve Black 13
916	Reserve Black 14
917	Reserve Black 15
918	Reserve Black 16
919	Reserve Black 17
920	Reserve Black 18
921	Reserve Black 19
922	Reserve Black 20
923	Reserve Black 21

**870-934, 972 Black or Negro—Con.**

924	Reserve Black 22
925	Reserve Black 23
926	Reserve Black 24
927	Reserve Black 25
928	Reserve Black 26
929	Reserve Black 27
930	Reserve Black 28
931	Reserve Black 29
932	Reserve Black 30
933	Reserve Black 31
934	Black Cherokee
972	Black or Negro (FOSDIC circle)

**935-940, 974 Eskimo**

935	Eskimo
936	Reserve Eskimo 1
937	Reserve Eskimo 2
938	Reserve Eskimo 3
939	Reserve Eskimo 4
940	Wales
974	Eskimo (FOSDIC circle)

**941-970, 975 Aleut**

941	Aleut
942	Reserve Aleut 1
943	Reserve Aleut 2
944	Reserve Aleut 3
945	Reserve Aleut 4
946-970	Reserve Aleut 5
975	Aleut (FOSDIC circle)

**971-986 FOSDIC Circle Codes**

971	See White
972	See Black or Negro
973	See American Indian
974	See Eskimo
975	See Aleut
976	See Asian
977	See Asian
978	See Pacific Islander
979	See Asian
980	See Asian
981	See Asian
982	See Asian
983	See Pacific Islander
984	See Pacific Islander
985	See Asian
986	See Other race

**987-999 Reserve Other Race**