Public Use Microdata Sample 2000

2000 Census of Population and Housing

Issued April 2003

PUMS/00-US

Technical Documentation

U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU

United States Census 2000

For additional information concerning the files, contact Marketing Services Office, Customer Services Center, U.S. Census Bureau, Washington, DC 20233 or phone 301-763-INFO (4636).

For additional information concerning the technical documentation, contact Administrative and Customer Services Division, Electronic Products Development Branch, U.S. Census Bureau, Washington, DC 20233 or phone 301-763-8004.

Public Use Microdata Sample 2000

2000 Census of Population and Housing

Issued April 2003

PUMS/00-US

Technical Documentation

U.S. Department of Commerce
Donald L. Evans,
Secretary
Samuel W. Bodman,
Deputy Secretary

Economics and Statistics Administration
Kathleen B. Cooper,
Under Secretary
for Economic Affairs

U.S. CENSUS BUREAU
Charles Louis Kincannon,
Director

SUGGESTED CITATION

FILES: Census 2000,
Public Use Microdata Sample,
(PUMS), United States,
prepared by the
U.S. Census Bureau, 2003

TECHNICAL DOCUMENTATION:
Census 2000,
Public Use Microdata Sample,
(PUMS), United States,
Technical Documentation,
prepared by the
U.S. Census Bureau, 2003



Economics and Statistics Administration

Kathleen B. Cooper,
Under Secretary
for Economic Affairs



U.S. CENSUS BUREAU

Charles Louis Kincannon,
Director

Hermann Habermann,
Deputy Director and
Chief Operating Officer

Vacant,
Principal Associate Director
and Chief Financial Officer

Vacant,
Principal Associate
Director for Programs

Preston Jay Waite,
Associate Director
for Decennial Census

Nancy M. Gordon,
Associate Director
for Demographic Programs

Cynthia Z.F. Clark,
Associate Director
for Methodology and
Standards

Marvin D. Raines,
Associate Director
for Field Operations

Arnold A. Jackson,
Assistant Director
for Decennial Census

CONTENTS

Chapters

1. Abstract 1–1
2. Introduction 2–1
3. How to Use This File 3–1
4. Accuracy of the Microdata Sample Estimates 4–1
5. Sample Design and Estimation 5–1
6. Data Dictionary 6–1
7. User Updates 7–1

Appendixes

A. Census 2000 Geographic Terms and Concepts A–1
B. Definitions of Subject Characteristics B–1
C. Data Collection and Processing Procedures C–1
D. Questionnaire D–1
E. Data Products and User Assistance E–1
F. Maps F–1
G. Code Lists G–1
H. Topcoded Variables and Corresponding State Means for Values Above the Topcode for the Housing Record and Person Record . . . H–1
I. Total Unweighted and Weighted Population and Housing Counts for the 1-Percent PUMS Files I–1
J. Equivalency Files J–1
K. Relationship Between Super-PUMAs of Migration and Super-PUMAs . . K–1
L. Relationship Between Super-PUMAs of Place of Work and Super-PUMAs L–1

Chapter 1. Abstract

CITATION

U.S. Census Bureau, 2000 Census of Population and Housing, Public Use Microdata Sample, United States: Technical Documentation, 2003.

TYPE OF FILE

Microdata

SUBJECT CONTENT

Public Use Microdata Sample (PUMS) files contain records representing 5-percent or 1-percent samples of the occupied and vacant housing units in the U.S. and the people in the occupied units. Group quarters people also are included. The file contains individual weights for each person and housing unit, which when applied to the individual records, expand the sample to the relevant total. Please see Chapter 6 - Data Dictionary for a complete list of the variables and recodes.

Some of the items included on the housing record are: acreage; agricultural sales; allocation flags for housing items; bedrooms; condominium fee; contract rent; cost of utilities; family income in 1999; family, subfamily, and relationship recodes; farm residence; fire, hazard, and flood insurance; fuels used; gross rent; heating fuel; household income in 1999; household type; housing unit weight; kitchen facilities; linguistic isolation; meals included in rent; mobile home costs; mortgage payment; mortgage status; plumbing facilities; presence and age of own children; presence of subfamilies in household; real estate taxes; rooms; selected monthly owner costs; size of building (units in structure); state code; telephone service; tenure; vacancy status; value (of housing unit); vehicles available; year householder moved into unit; and year structure built.

Some of the items included on the person record are: ability to speak English; age; allocation flags for population items; ancestry; citizenship; class of worker; disability status; earnings in 1999; educational attainment; grandparents as caregivers; Hispanic origin; hours worked; income in 1999 by type; industry; language spoken at home; marital status; means of transportation to work; migration Public Use Microdata Area (PUMA); migration state; mobility status; veteran period of service; years of military service; occupation; person's weight; personal care limitation; place of birth; place of work PUMA; place of work state; poverty status in 1999; race; relationship; school enrollment and type of school; time of departure for work; travel time to work; vehicle occupancy; weeks worked in 1999; work limitation status; work status in 1999; and year of entry.

GEOGRAPHIC CONTENT

The Public Use Microdata Sample (PUMS) files contain geographic units known as super-Public Use Microdata Areas (super-PUMAs) and Public Use Microdata Areas (PUMAs). To maintain the confidentiality of the PUMS data, minimum population thresholds are set for PUMAs and super-PUMAs. For the 1-percent state-level files, the super-PUMAs contain a minimum population of 400,000 and are composed of a PUMA or a group of contiguous PUMAs delineated on the 5-percent state-level PUMS files. Super-PUMAs are a new geographic entity for Census 2000. The 5-percent state-level files contain PUMAs, each having a minimum population of 100,000; the 5-percent files also will show corresponding super-PUMAs codes. Each state is separately identified and may be comprised of one or more super-PUMAs or PUMAs. Large metropolitan areas may be subdivided into super-PUMAs and PUMAs. PUMAs and super-PUMAs do not cross state lines. Super-PUMAs and PUMAs also are defined for place of residence on April 1, 1995 and place of work.

USER UPDATES

The section on User Updates informs data users about corrections, errata, and related explanatory information. However, sometimes this information becomes available too late to be reflected in this related documentation. The most up-to-date compilation of Census 2000 user updates is available on the Census Bureau's Internet site at www.census.gov/main/www/cen2000.html. Users also can register to receive user updates by e-mail by contacting Customer Services Center, Marketing Services Office, U.S. Census Bureau on 301-763-INFO (4636) (webmaster@census.gov).

FILE ORDERING

For ordering and pricing information, access the online catalog at the Census Bureau's Internet site (www.census.gov) or contact the Census Bureau's Customer Services Center (301-763-INFO).

Chapter 2. Introduction

OVERVIEW

Public use microdata sample files are ASCII files which contain individual records of the characteristics for a sample of people and housing units. Information which could identify a household or an individual is excluded in order to protect the confidentiality of respondents. Within the limits of the sample size, the geographic detail, and the confidentiality protection, these files allow users to prepare virtually any tabulation they require.

WHAT ARE MICRODATA?

Microdata are the individual records which contain information collected about each person and housing unit. They include the census basic record types, computerized versions of the questionnaires collected from households, as coded and edited during census processing. The Census Bureau uses these confidential microdata in order to produce the summary data that go into the various reports, summary files, and special tabulations. Public use microdata samples are extracts from the confidential microdata taken in a manner that avoids disclosure of information about households or individuals. For Census 2000, the microdata are only available to the public through the Public Use Microdata Sample (PUMS) products.

PROTECTING CONFIDENTIAL INFORMATION

All data released (in print or electronic media) by the Census Bureau are subject to strict confidentiality measures imposed by the legislation under which our data are collected: Title 13, U.S. Code. Responses to the questionnaire can be used only for statistical purposes, and Census Bureau employees are sworn to protect respondents' identities.

Because of the rapid advances in computer technology since 1990 and the increased accessibility of census data to the user community, the Census Bureau has had to adopt more stringent measures to protect the confidentiality of public use microdata through enhanced disclosure limitation techniques. At the same time, the Census Bureau recognizes the data user's need for characteristic detail and geographic specificity. Hence, there are two sets of files: one that provides a fuller range of detailed characteristics (the 1-percent files) and one that provides greater geographic detail but less characteristic detail (the 5-percent files).

Confidentiality is protected, in part, by the use of the following processes: data-swapping, topcoding of selected variables, geographic population thresholds, age perturbation for large households, and reduced detail on some categorical variables.

Data swapping is a method of disclosure limitation designed to protect confidentiality in tables of frequency data (the number or percent of the population with certain characteristics). Data swapping is done by editing the source data or exchanging records for a sample of cases. Swapping is applied to individual records and, therefore, also protects microdata.

Top-coding is a method of disclosure limitation in which all cases in or above a certain percentage of the distribution are placed into a single category.

Geographic population thresholds prohibit the disclosure of data for individuals or housing units for geographic units with population counts below a specified level.

Age perturbation, that is, modifying the age of household members, is required for large households (households containing ten people or more) due to concerns about confidentiality.

Detail for categorical variables is collapsed if the number of occurrences in each category does not meet a specified national minimum threshold.

1-Percent Files

The 1-percent files give users the maximum amount of social, economic, and housing information available. There is no national minimum threshold for the identification of variable categories, with the exceptions of a national minimum population of 8,000 for race and Hispanic origin. The goal of these files is to provide a similar level of detail as was available in the 1990 PUMS files (and, in some cases, more detail).

In order to provide the level of characteristic detail for the 1-percent files described above, the minimum geographic population threshold needed to be raised above 100,000 (the PUMA minimum). A new geographic entity was created—the super-PUMA. Super-PUMAs have a minimum population of 400,000 and are composed of a PUMA or PUMAs delineated on the 5-percent PUMS files.[1] Each state will be identified, and any state with a population of 800,000 or greater can be subdivided into two or more super-PUMAs.

5-Percent Files

To maintain confidentiality, while retaining as much characteristic detail as possible, a minimum threshold of 10,000 nationally is set for the identification of variable categories within categorical variables in the 5-percent PUMS files.

Each PUMA in the 5-percent files must meet a minimum population threshold of 100,000. The minimum PUMA threshold was held at 100,000 by increasing the degree of variable collapsing as described above. The 100,000 minimum population threshold—the threshold set for both he 1980 and 1990 PUMS files—permits greater historical comparability.

USES OF MICRODATA FILES

Public use microdata files essentially allow "do-it-yourself" special tabulations. The Census 2000 files furnish nearly all of the detail recorded on long-form questionnaires in the census, subject to the limitations of sample size, geographic identification, and confidentiality protection. Users can construct a wide variety of tabulations interrelating any desired set of variables. They have almost the same freedom to manipulate the data that they would have if they had collected the data in their own sample survey, yet these files offer the precision of census data collection techniques and sample sizes larger than would be feasible in most independent sample surveys.

Microdata samples are useful to users who are doing research that does not require the identification of specific small geographic areas or detailed crosstabulations for small populations. Microdata users frequently study relationships among census variables not shown in existing census tabulations, or concentrate on the characteristics of specially defined populations.

SAMPLE DESIGN AND SIZE

Each microdata file is a stratified sample of the population which was created by subsampling the full census sample (approximately 15.8 percent of all housing units) that received census long form questionnaires. Initial sampling was done address-by-address in order to allow the study of family relationships and housing unit characteristics for occupied and vacant units. Sampling of people in institutions and other group quarters was done on a person-by-person basis.

There are two independently drawn samples, designated "5 percent" and "1 percent," each featuring a different geographic scheme. Nationwide, the Census 2000 5-percent sample provides the user records for over 14 million people and over 5 million housing units. For the 1-percent sample, there are records for over 2.8 million people and over 1 million housing units. Since processing a smaller sample is less resource intensive, some users may want to produce extracts using the subsample numbers provided in the housing record. The sample design is discussed more thoroughly in Chapter 5. Sample Design and Estimation.

[1] The super-PUMAs will be identified in the 5-percent files as well.

Like 1990, each file contains individual weights for both the housing units and the people. The user can estimate the frequency of a particular characteristic for the entire population by summing the weight variables for records with that characteristic from the microdata file. A section of Chapter 5 discusses the preparation and verification of estimates (see page 5-2) and Appendix I provides control counts.

Reliability improves with increases in sample size, so the choice of sample size must represent a balance between the level of precision desired and the resources available for working with microdata files. By using tables provided in Chapter 4 (see page 4-3), one can estimate the degree to which sampling error will affect any specific estimate prepared from a microdata file of a particular sample size.

Many factors affect the user's decision on which file to use. Users of microdata files for state or Metropolitan Area (MA) estimates would normally use a 1-percent or 5-percent sample, while users concerned only with national figures can frequently get by with a smaller sample, say a 0.1percent (one-in-a-thousand) sample. Although we do not provide a 0.1-percent file, we do provide subsample numbers which allow scientifically designed extracts of various sizes to be drawn. Even national users may need a 1-percent or a 5-percent sample if extremely detailed tabulations are desired, or if users are concerned with very small segments of the population, for example, females 75 years old or over of Italian ancestry. One of the examples in Chapter 4 discusses the selection of the appropriate sample size for a particular study.

SUBJECT CONTENT

Microdata files contain the full range of population and housing information collected in Census 2000. These files allow users to study how characteristics are interrelated (for example, income and educational attainment of husbands and wives).

Information for each housing unit in the sample appears on a 314-character record with geographic, household, and housing items, followed by a variable number of 314-character records with person-level information, one record for each member of the household. Information for each group quarters person in the sample appears on a 314-character pseudo housing unit record. Items on the housing record are listed beginning on page 6-23; items on the person record are listed beginning on page 6-42. Although the subjects are further defined in Appendix B of this document, it is important to note that some items on the microdata file were modified in order to provide protection for individual respondents.

The sample questionnaires were edited for completeness and consistency, and substitutions or allocations were made for most missing data. Allocation flags appear interspersed throughout the file indicating each item that has been allocated. Thus, a user desiring to tabulate only actually observed values can eliminate variables with allocated values. Editing and allocation flags are discussed beginning on page 4-17.

GEOGRAPHIC CONTENT

The Census Bureau offered State Data Centers (SDCs) the opportunity to delineate, or coordinate the delineation of, the super-PUMAs and the PUMAs. The SDCs (or their equivalents) in 48 states, the District of Columbia, and Puerto Rico participated in the delineation program. The Florida and Rhode Island SDCs did not participate; in these two states, the Census Bureau delineated the super-PUMAs and the PUMAs.

Super-PUMAs are identified by a 5-digit code. The first two digits of each super-PUMA code within a given state contain that state's federal information processing standard (FIPS) code. A 5-digit number, unique within state, identifies each PUMA; PUMA codes must be used in conjunction with the 2-digit FIPS state codes.

Maps of super-PUMAs and PUMAs, as well as a geographic equivalency file, also are provided to the user via File Transfer Protocol (FTP) and on CD-ROM/DVD.

To maintain the confidentiality of the PUMS data, minimum population thresholds are set for PUMAs and super-PUMAs. For the 1-percent state-level files, the super-PUMAs contain a minimum population of 400,000 and are composed of a PUMA or a group of contiguous PUMAs delineated on the 5-percent state-level PUMS files. Super-PUMAs are a new geographic entity for Census 2000. The 5-percent state-level files contain PUMAs, each having a minimum population of 100,000; the 5-percent files also will show corresponding super-PUMA codes. Each state is separately identified and may be comprised of one or more super-PUMAs or PUMAs. Large metropolitan areas may be subdivided into super-PUMAs and PUMAs. PUMAs and super-PUMAs do not cross state lines.

In addition to super-PUMAs and PUMAs, there also are modified super-PUMAs and PUMAs for two specific variables, place of residence on April 1, 1995 and place of work. The descriptions that follow apply to PUMAs, as well as to super-PUMAs. Migration super-PUMAs and place of work super-PUMAs are the geographic units that contain information on place of residence on April 1, 1995 and place of work, respectively. Outside of the six New England states (Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut), migration super-PUMAs and place of work super-PUMAs are defined only to the whole county (or county equivalent) or groups of counties. In some instances, place of work super-PUMAs are defined to places. In the six New England states, migration super-PUMAs and place of work super-PUMAs are defined to minor civil divisions (MCDs) or groups of MCDs. Appendix K illustrates the relationship between migration super-PUMAs (MIGPUMA1) and super-PUMAs (PUMA1) and Appendix L illustrates the relationship between place of work super-PUMAs (POWPUMA1) and super-PUMAs (PUMA1).

CORRESPONDING MICRODATA FROM EARLIER CENSUSES

PUMS files exist for the 1960, 1970, 1980, and 1990 censuses. Samples from the 1960 through 1990 censuses employed a 1-percent sample size; the 5-percent sample has only been produced since 1980. In 2000, all states met the minimum population threshold for the 1-percent files so a separate file was produced for each state. Very little comparability exists between geographic identifiers on each of the previous files, but housing and population characteristics are similar. Because of this similarity, microdata files from the most recent censuses are a rich resource for analysis of trends. Items which were added, dropped, or substantially changed between 1990 and 2000 are listed in Chapter 3. How to Use This File. Appendix B discusses historical comparability of items in greater detail.

Chapter 3.
How To Use This File

INTRODUCTION

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

DATA FORMAT AND ACCESS TOOLS

The 2000 Public Use Microdata Sample (PUMS) data files are available in flat ASCII format. Users of the DVD/CD-ROM may access the PUMS data in two ways: with software and without software.

- The DVD/CD-ROM with software is designed to perform basic cross tabulations of any desired set of variables on the PUMS file.
- For the DVD/CD-ROM without software, users can utilize off-the-shelf standard statistical software packages to manipulate the data. (Also, files are available for downloading via FTP from the Census Bureau Web site.)

The 2000 PUMS are accompanied by electronic data dictionaries in a format that will allow the user to read in ASCII characters and prepare statements transforming the variables and their corresponding descriptions and values to the proper statements required by the software package of choice.

TECHNICAL DESCRIPTION

The 2000 PUMS file structure is hierarchical and contains two basic record types of 314 characters each: the housing unit record and the person record. The PUMS files are released in this format because of the tremendous amount of data contained in one record.

Each record has a unique identifier (serial number) that links the people in the housing unit to the proper housing unit record. The inclusion of the serial number on both record types affords the option of processing the data either sequentially or hierarchically. The file is sorted to maintain the relationship between both record types, so that a user does not have to be concerned about keeping the record sequence as the file was delivered. Each housing unit record is followed by a variable number of person records, one for each occupant. Vacant housing units will have no person record, and selected people in group quarters will have a pseudo housing record and a person record. The only types of group quarters that are identified are institutional and noninstitutional.

A housing unit weight appears on the housing unit record and a person weight appears on the person record. Weights allow users to produce estimates that closely approximate published data in other products.

Geographic identifiers and subsample identifiers appear only on the housing unit record. Thus, most tabulations of person characteristics require manipulation of both housing unit and person records. The item “PERSONS” on the housing unit record indicates the exact number of person records following before the next housing unit record. This feature allows a program to anticipate what type of record will appear next, if necessary. Most statistical software packages are capable of handling the data either hierarchically or sequentially. Many users may still want to create extract files with household data repeated with each person’s record. All fields are numeric with the following exceptions. (1) Record Type is either “H” or “P.” (2) The Standard Occupational Classification (SOC)-based code for occupation and the North American Industry Classification System (NAICS)-based code for industry may have an “X” or “Y.”

RECORD SEQUENCE

The files are released on a state-by-state basis. Records on these files are sorted by geographic area within state. On the 5-percent sample, all households sampled within a particular Public Use Microdata Area (PUMA) appear together. Super-PUMA is a new geographical entity that comprise areas of at least 400,000 people. On the 1-percent sample, all households sampled within a particular super-PUMA appear together. On the 5-percent sample, PUMAs are sequenced in ascending order within super-PUMA within state. Super-PUMAS are sequenced in ascending order within state. In order to provide an extra measure of protection from disclosure of individual households within each geographic area, we scramble the records to avoid any implication of geographic information beyond that which meets Census Bureau disclosure rules for the 2000 PUMS.

The householder record always immediately follows the housing unit record for an occupied unit. This feature simplifies tabulation of households or families by race of householder, ancestry of householder, and even poverty status—since the desired indicators are always on the first person record. The next person record following the householder record is the spouse (if there is a spouse) followed by all family member records, in no particular order. Nonfamily members come last in the household, in no particular order. People sampled from within the same group quarters are not identifiable as such, since each person has an independent pseudo-housing unit record.

METROPOLITAN AREAS

The following items on the housing unit record refer to metropolitan areas. Substitutions should be made as shown.

- AREATYP1, AREATYP5 (substitute “PUMA” wherever super-PUMA is mentioned),
- MIGAREA1 (substitute “super-PUMA of migration” wherever super-PUMA is mentioned),
- MIGAREA5 (substitute “PUMA of migration” wherever super-PUMA is mentioned)
- POWAREA1 substitute “super-PUMA of place of work” wherever super-PUMA is mentioned)
- POWAREA5 (substitute “PUMA of place of work” wherever super-PUMA is mentioned)

Metropolitan Area (MA) codes are based upon June 30, 1999 Office of Management and Budget definitions. A “fully-identified” MA indicates that the entire MA—and no other territory—is shown in one or more super-PUMAs. A “partially-identified” MA indicates that at least one portion of the MA is contained within a super-PUMA (or super-PUMAs) that also contains territory outside of the particular MA.

Example 1. Two-county MSA (containing county A and county B) with the only central city (as well as other noncentral city part) in county A. Super-PUMA 1 only contains county A and Super-PUMA 2 only contains county B. Super-PUMA 1 receives the code “13” indicating that it “contains only metropolitan territory both inside and outside central city (MSA part of fully-identified MSA).” Super-PUMA 2 receives the code “12 ” indicating that it “contains only metropolitan territory outside central city (MSA part of fully-identified MSA).”

Example 2. Two-county MSA (containing county A and county B) with the only central city (as well as other noncentral city part) in county A. Super-PUMA 1 only contains county A and Super-PUMA 2 contains county B, plus a non-MA county. Super-PUMA 1 receives the code “23 ” indicating that it “contains only metropolitan territory both inside and outside central city (MSA part of partially-identified MSA).” Super-PUMA 2 receives the code “70” indicating that it “contains both metropolitan and nonmetropolitan territory.”

MACHINE-READABLE DOCUMENTATION

Every file includes a machine readable “data dictionary ” or record layout. The record layout is the same for the 1-percent and 5-percent files. A user can produce hard copy documentation for extract files or labels for tabulations created; or with minor modifications, can use the data dictionary file with software packages or user programs to automatically specify the layout of the microdata files.

The PUMS Equivalency Files also are available in machine-readable form. These files lists the geographic components (counties or MCDs, places, tracts where available) and their assigned PUMA and super-PUMA codes for the 5-percent and 1-percent samples, respectively. See Appendix J. Equivalency Files.

PREPARING AND VERIFYING TABULATIONS

Estimation. Estimates of totals may be made from tabulations of public use microdata samples by using a simple inflation estimate, that is, summing the weights associated with that variable (e.g. for housing characteristics, use the housing unit weight; for person characteristics, use the person weight.) Those users using subsample numbers to vary the sample size must apply an appropriate factor, or, otherwise adjust the weights to derive an appropriate estimation of totals. We further explain the use of weights and subsample numbers in Chapter 5. Sample Design and Estimation.

Estimation of percentages. A user can estimate percentages by simply dividing the weighted estimate of people or housing units with a given characteristic by the weighted sample estimate for the base. Normally, this yields the same as would be obtained if one made the computation using sample tallies rather than weighted estimates. For example, the percentage of housing units with air conditioning in a 1-percent sample can be obtained by simply dividing the tally of sample housing units with air conditioning by the total number of sample housing units.

Verifying tabulations. Producing desired estimates from the PUMS is relatively easy. File structure and coding of items is straightforward. There are no missing data (see the section "Use of Allocation Flags" in Chapter 4). Records not applicable for each item are assigned to specific NA categories, and it is frequently not necessary to determine in a separate operation whether a record is in the universe or not. PUMS "universe"and variable" definitions may differ from other products produced from sample data primarily because of concerns about disclosure risks (e.g. PUMS files may have different topcodes from SF 3, or the recodes may vary because the components were topcoded). Thus, user tabulations should be verified against other available tallies. Two ways for the user to verify estimates follow:

1. Using control counts from the samples. Total unweighted and weighted population and housing counts are provided for each state. See Appendix I.
2. Using published data from Census 2000. Tabulations from the Census 2000 data base are available in the printed census publications and on the summary data files. Users may check the reasonableness of statistics derived from PUMS against these sources. A familiarity with summary data already available may also facilitate planning of tabulations to be made from microdata. Those publications series likely to be of greatest use for this purpose are listed in PHC-2, Summary Social, Economic, and Housing Characteristics and Summary File 3 (SF 3). In comparing sample tabulations with published data, one must carefully note the universe of the published tabulation. For instance, on PUMS person records, Industry (character position 211-213) is reported for the civilian labor force and for people not in the labor force who reported having worked in 1995 or later. Industry tabulations in Census 2000 publications are presented only for the employed population.

Thus, a tally of industry for all people from whom industry is reported in PUMS records would not correspond directly to any published tabulation. A user should always pay particular attention to concept definitions, as presented in Appendix B. Definitions of Subject Characteristics. One cannot, of course, expect exact agreement between census publications that are based on the complete census count, full sample estimates, or a subsample of the census sample and user estimates based on tallies of a 5-percent or smaller sample. They will inevitably differ to some extent due to chance in selection of actual cases for PUMS.

Chapter 5. Sample Design and Estimate discusses sampling variability and its measurement. User experience has indicated that careful verification of sample tabulations is essential—so important that it may frequently be advisable to include additional cells in a tabulation for no other reason than to provide counts or to yield marginal totals, not otherwise available, which may be verified against available tabulations.

1990-2000 SUBJECT COMPARABILITY

Most of the items for 2000 are comparable to 1990. A few items found in the 1990 PUMS are not in the 2000 PUMS file, primarily because the questions were not asked. Full descriptions of item comparability are given in Appendix B. Definitions of Subject Characteristics.

2000 items not on 1990 files

Grandparents as care givers

1990 items not on 2000 files

Children ever born
Source of water
Sewage disposal
Condominium status

Concepts substantially changed

Race. Users were allowed to identify multiple races.
Geography. The concept of Super-PUMA is new.

Chapter 4.
Accuracy of the Microdata Sample Estimates

INTRODUCTION

The data contained in this product are based on the Census 2000 sample. The data summarized from these files are estimates of the actual figures that would have been obtained from a complete count. Estimates derived from the census sample files are expected to differ from the 100-percent figures because they are subject to sampling and nonsampling errors. Sampling error in data arises from the selection of people and housing units 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 data collection and processing phases of the census. This chapter provides a detailed discussion of both types of errors and a description of the estimation procedures.

In the Public Use Microdata Samples (PUMS), the basic unit is an individual housing unit and the people who live in occupied housing units or group quarters. However, microdata records in these samples do not contain names or addresses. A more detailed discussion of methods to protect confidentiality of individual responses follows.

CONFIDENTIALITY OF THE DATA

The Census Bureau has modified or suppressed some data in this data release to protect confidentiality. Title 13, United States Code, Section 9, prohibits the Census Bureau from publishing results in which an individual can be identified. The Census Bureau's internal Disclosure Review Board sets the confidentiality rules for all data releases. A checklist approach is used to ensure that all potential risks to the confidentiality of the data are considered and addressed.

Title 13, United States Code. Title 13 of the United States Code authorizes the Census Bureau to conduct censuses and surveys. Section 9 of the same Title requires that any information collected from the public under the authority of Title 13 be maintained as confidential. Section 214 of Title 13 and Sections 3559 and 3571 of Title 18 of the United States Code provide for the imposition of penalties of up to 5 years in prison and up to $250,000 in fines for wrongful disclosure of confidential census information.

Disclosure limitation. Disclosure limitation is the process for protecting the confidentiality of data. A disclosure of data occurs when someone can use published or released statistical information to identify an individual who provided information under a pledge of confidentiality. Using disclosure limitation procedures, the Census Bureau modifies or removes the characteristics that put confidential information at risk for disclosure. Although it may appear that the PUMS files show information about a specific individual, the Census Bureau has taken steps to disguise the original data while making sure the results are still useful. The techniques used by the Census Bureau to protect confidentiality in tabulations vary, depending on the type of data.

Data swapping. Data swapping is a method of disclosure limitation designed to protect confidentiality in data (the number or percentage of the population with certain characteristics). Data swapping is done by editing the source data or exchanging records for a sample of cases. A sample of households is selected and matched on a set of selected key variables with households in neighboring geographic areas that have similar characteristics. Because the swap often occurs within a neighboring area, there is usually no effect on the marginal totals for the area or for totals that include data from multiple areas. Data swapping procedures were first used in the 1990 census and were also used for Census 2000.

Since microdata records are the actual housing unit and person records, the Census Bureau takes further steps to prevent the identification of specific individuals, households, or housing units. The main disclosure avoidance method used is to limit the geographic detail shown in the files. A

minimum threshold of 10,000 for the national population was set for identification of groups within categorical variables in the state level PUMS files. A geographic area must have a minimum of 100,000 population to be fully identified in the 5 percent file, and 400,000 for the 1 percent sample file. Furthermore, certain variables are topcoded, or the actual values of the characteristics are replaced by a descriptive statistic, such as the mean.

ERRORS IN THE DATA

Statistics in this data product are based on a sample. Therefore, they may differ somewhat from 100-percent figures that would have been obtained if all housing units, people within those housing units, and people living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, and so forth. The sample estimate also would differ from other samples of housing units, people within those housing units, and people 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 possible samples. Thus, it measures 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. The method of calculating standard errors and confidence intervals for the data in this product appears in the section called "Calculation of Standard Errors".

In addition to the variability that arises from the sampling procedures, both sample data and 100percent 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 nonsampling error is given in the section on "Nonsampling Error" in this chapter.

Nonsampling error may affect the data in two ways: errors that are introduced randomly will increase the variability of the data and, therefore, should 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 underreport their incomes, 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 systematic biases are not reflected in the standard error.

Limitations of the Group Quarters Data

By definition, universes that include the total population include both the household population and the group quarters population. For example, the universe defined as the population 15 years and over includes all people 15 years and over in both households and group quarters.

In previous censuses and in Census 2000, allocation rates for demographic characteristics (such as age, sex, and race) of the group quarters population were similar to those for the total population. However, allocation rates for sample characteristics, such as school enrollment, educational attainment, income, and veteran status for the institutionalized and noninstitutionalized group quarters population have been substantially higher than those for the household population since at least the 1960 Census. A review of the Census 2000 allocation rates for sample characteristics indicated that this trend continued.

Although allocation rates for sample characteristics are higher for the group quarters population, it is important to include the group quarters population in the total population universe. In most areas, the group quarters population represents a small proportion of the total population. As a result, the higher allocation rates associated with the group quarters population have minimal impact on the sample characteristics for the area of interest. In areas where the group quarters population represents a larger percentage of the total population, the Census Bureau cautions data users about the impact higher allocation rates may have on the sample characteristics.

As shown by the allocation rates, in some geographic areas and for some characteristics of interest, a significant amount of data was not reported. These data were assigned using accepted survey methods to account for missing data. In assigning these missing data, the Census Bureau uses data from similar population groups, such as similar types of group quarters. These methods attempt to minimize the effect of missing data. The Census Bureau advises users to review the characteristics for reasonableness and assess the usability of these data.

Calculation of Standard Errors

Totals and percentages. Tables A through E, at the end of this chapter, contain the necessary information for calculating standard errors of sample estimates in this data product. To calculate the standard error, it is necessary to know:

1. The unadjusted standard error for the characteristic (given in Tables A and C for estimated totals from the 5- or the 1-percent sample, respectively, or Tables B and D for estimated percentages from the 5- or the 1-percent sample, respectively) that would result under a simple random sample design of people, housing units, households, or families.

2. The design factor for the geography and the particular characteristic estimated based on the sample design and estimation techniques employed to produce long form data estimates (given in Table E).

The design factor is the ratio of the estimated standard error to the standard error of a simple random sample. The design factors reflect the effects of the actual sample design and the complex ratio estimation procedure used for the Census 2000 sample data.

Note: Design factors for the U.S. and for individual states (including the District of Columbia and Puerto Rico) are included in Table E. Use the state level design factors for estimates at the state level and below. Use the U.S. design factors for all estimates that cross state boundaries.

3. The estimated number of people, housing units, households, or families in the geographic area tabulated.

Use the steps given below to calculate the standard error of an estimated total or percentage contained in this product. A percentage is defined here as a ratio of a numerator to a denominator multiplied by 100 where the numerator is a subset of the denominator. For example, the percentage of Black or African American teachers is the ratio of Black or African American teachers to all teachers multiplied by 100.

1. Obtain the unadjusted standard error from Table A, B, C, or D (or use the formula given below each table) for the estimated total or percentage, respectively.

2. Use Table E to obtain the appropriate design factor, based on the characteristic (Employment status, School enrollment, etc.) and the geography.

3. Multiply the unadjusted standard error by this design 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 publication areas to which they correspond. Nevertheless, these estimated totals and percentages are still 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 unadjusted standard errors in Tables B and D that appear in the "2 or 98" row. For an estimated total using the 5 percent sample that is less than 50 or within 50 of the total size of the publication area, use an unadjusted standard error of 138. For an estimated total using the 1 percent sample that is less than 50 or within 50 of the total size of the publication area, use an unadjusted standard error of 314.

Examples using Tables A through E are given in the section titled "Using Tables to Compute Standard Errors and Confidence Intervals."

Sums and differences. The standard errors estimated from Tables A, B, C, and D 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 $\hat{Y}$, respectively:

$$SE(\hat{X} + \hat{Y}) = SE(\hat{X} - \hat{Y}) = \sqrt{[SE(\hat{X})]^2 + [SE(\hat{Y})]^2}$$

This method is, however, an approximation as the two estimates of interest in a sum or a difference are likely to be correlated. If the two quantities X and Y are positively correlated, this method underestimates the standard error of the sum of $\hat{X}$ and $\hat{Y}$ and overestimates the standard error of the difference between the two estimates. If the two estimates are negatively correlated, this method overestimates the standard error of the sum and underestimates the standard error of the difference.

This method may also be used for the sum of or the difference between sample estimates from two censuses or from a census sample and another survey. The standard error for estimates not based on the Census 2000 sample must be obtained from an appropriate source outside of this chapter.

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 or African-American teachers, subtract the estimate of Black or African-American teachers from the estimate of total teachers. To determine the standard error of the estimate of non-Black or African-American teachers, apply formula 1 or 3 directly. They are located beneath Tables A and C respectively.

Ratios. Frequently, the statistic of interest is the ratio of two variables, where the numerator is not a subset of the denominator. An example is the ratio of students to teachers in public elementary schools. (Note that this method cannot be used to compute a standard error for a sample mean.) 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:

$$SE\left(\frac{\hat{X}}{\hat{Y}}\right) = \left(\frac{\hat{X}}{\hat{Y}}\right)\sqrt{\frac{[SE(\hat{X})]^2}{\hat{X}^2} + \frac{[SE(\hat{Y})]^2}{\hat{Y}^2}}$$

Medians. The sampling variability of an estimated median depends on the form of the distribution and the size of its base. The standard error of an estimated median is approximated by constructing a 68-percent confidence interval. Estimate the 68-percent confidence limits of a median based on sample data using the following procedure.

1. Obtain the frequency distribution for the selected variable. Cumulate these frequencies to yield the base.

2. Determine the standard error from:

   a. the 5 percent sample of the estimate of 50 percent from the distribution using the formula:

$$SE(50\ \text{percent}) = \sqrt{\left(\frac{19}{\text{base}} \times 50^2\right)} \times \text{Design Factor}$$

b. the 1-percent sample of the estimate of 50 percent from the distribution using the formula:

$$SE(50\ percent) = \sqrt{\left(\frac{99}{base} \times 50^2\right)} \times Design\ Factor$$

3. Subtract from and add to 50 percent the standard error determined in step 2.

$$p_lower = 50 - SE\ (50\ percent)$$

$$p_upper = 50 + SE\ (50\ percent)$$

4. Determine the category in the distribution containing p_lower and the category in the distribution containing p_upper.

If p_lower and p_upper fall in the same category, follow the steps below. If p_lower and p_upper fall in different categories, go to step 7.

- Define A1 as the smallest value in that category.
- Define A2 to be the smallest value in the next (higher) category.
- Define C1 as the cumulative percent of units strictly less than A1.
- Define C2 as the cumulative percent of units strictly less than A2.

5. Use the following formulas with p_lower, p_upper, A1, A2, C1, and C2 to determine lower and upper bounds for a confidence interval about the median:

$$Lower\ Bound = \left[\frac{p_lower - C1}{C2 - C1}\right] \times (A2 - A1) + A1$$

$$Upper\ Bound = \left[\frac{p_upper - C1}{C2 - C1}\right] \times (A2 - A1) + A1$$

6. Divide the difference between the lower and upper bounds, determined in step 5, by two to obtain the estimated standard error of the estimated median:

$$SE(median) = \frac{Upper\ Bound - Lower\ Bound}{2}$$

7. For the category:

   a. containing p-lower, define the values A1, A2, C1, and C2 as described in step 4 above. Use these values and the formula in step 5 to obtain the Lower Bound.

   b. containing p-upper, define a new set of values for A1, A2, C1, and C2 as described in step 4. Use these values and the formula in step 5 to obtain the Upper Bound.

8. Use the lower bound and upper bound obtained in step 7 and the formula in step 6 to calculate the standard error of the estimated median.

Means. A mean is defined here as the average quantity of some characteristic (other than the number of people, housing units, households, or families) per person, housing unit, household, or family. For example, a mean could be the average annual income of females age 25 to 34. The standard error of a mean can be approximated by the formula below. Because of the approximation used in developing this formula, the estimated standard error of the mean obtained from this formula will generally underestimate the true standard error.

The formula for estimating the standard error of a mean, $\bar{x}$, from the 5-percent sample is:

$$SE(\bar{x}) = \sqrt{\left(\frac{19}{base} \times s^2\right)} \times Design\ Factor$$

The formula for estimating the standard error of a mean, $\bar{x}$, from the 1-percent sample is:

$$SE(\bar{x}) = \sqrt{\left(\frac{99}{\text{base}} \times s^2\right)} \times \text{Design Factor}$$

where s^2 is the estimated population variance of the characteristic and the base is the total number of units in the population. The population variance, s^2, may be estimated using data that has been grouped into intervals.

For this method, the range of values for the characteristic is divided into c intervals, where the lower and upper boundaries of interval j are L_j and U_j, respectively. Each person is placed into one of the c intervals such that the value of the characteristic is between L_j and U_j. The estimated population variance, s^2, is then given by:

$$s^2 = \sum_{j=1}^{c} p_j m_j^2 - (\bar{x})^2$$

where p_j is the estimated proportion of people in interval j (based on weighted data) and m_j is the midpoint of the jth interval, calculated as:

$$m_j = \frac{L_j + U_j}{2}.$$

If the cth interval is open-ended, (i.e., no upper interval boundary exists) then approximate m_c by:

$$m_c = \left(\frac{3}{2}\right) L_c.$$

The estimated sample mean, $\bar{x}$, can be obtained using the following formula:

$$\bar{x} = \sum_{j=1}^{c} p_j m_j.$$

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 Census 2000 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:

a. 68-percent confidence interval.

   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.

b. 90-percent confidence interval.

   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.

c. 95-percent confidence interval.

   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 average value of the estimated characteristic that could be derived from all possible samples either is or is not contained in any particular computed interval. Thus, the statement that the average value has a certain probability of falling between the limits of the calculated confidence interval cannot be made. Rather, one can say with a specified probability of confidence that the calculated confidence interval includes the average estimate from all possible samples.

Confidence intervals also may be constructed for the ratio, sum of, or difference between two sample estimates. First compute the ratio, sum, or difference. Next, obtain the standard error of the ratio, sum, or difference (using the formulas given earlier). Finally, form 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.

Calculating the confidence interval from the standard error. To calculate the lower and upper bounds of the 90 percent confidence interval around an estimate using the standard error, multiply the standard error by 1.645, then add and subtract the product from the estimate.

$$\text{Lower bound} = \text{Estimate} - (\text{Standard Error} \times 1.645)$$

$$\text{Upper bound} = \text{Estimate} + (\text{Standard Error} \times 1.645)$$

Limitations. Be careful when computing and interpreting confidence intervals. The estimated standard errors given in this chapter do not include all portions of the variability because of nonsampling error that may be present in the data. In addition to sampling variance, 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 might not meet the stated levels of confidence (i.e., 68, 90, or 95 percent). Thus, be careful interpreting 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.

Zero or small estimates; very large estimates. The value of almost all Census 2000 characteristics is greater than or equal to zero by definition. The method given previously for calculating confidence intervals relies on large sample theory and may result in negative values for zero or small estimates, which are not admissible for most characteristics. In this case, the lower limit of the confidence interval is set to zero by default. A similar caution holds for estimates of totals that are close to the population total and for estimated proportions near one, where the upper limit of the confidence interval is set to its largest admissible value. In these situations, the level of confidence of the adjusted range of values is less than the prescribed confidence level.

Using Tables to Calculate Standard Errors and Confidence Intervals

Two methods for estimating standard errors of estimated totals and percentages are described in this section. The first method is very simple. This method uses standard errors that have been calculated for specific sizes of estimated totals and percentages given in Tables A through D, presented later in this section. The estimated standard errors shown in Tables A through D were calculated assuming simple random sampling while the microdata sample (and the census sample) were selected using a systematic sampling procedure. The numbers shown in Table E, referred to as design factors, are defined as the ratio of the standard error from the actual sample design to the standard error from a simple random sample.

The standard errors in Tables A through D used in conjunction with the appropriate design factors from Table E produce a reasonable measure of reliability for microdata sample estimates. A second, alternative methodology by which more precise standard errors can be obtained requires additional data processing and file manipulation. This method uses the formulas directly. The trade off is an increase in precision for more data processing. Given the technology available today, the second method is preferable and strongly recommended. However, the standard error tables may be very useful in producing acceptable approximations of the standard errors. On the other hand, for many statistics, particularly from detailed cross-tabulations, standard errors using the second method are applicable to a wider variety of statistics, such as means and ratios.

To produce standard error estimates, one obtains (1) the unadjusted standard error for the characteristic that would result from a simple random sample design (of people, families, or housing units) and estimation methodology; and (2) a design factor, which partially reflects the effects of the actual sample design and estimation procedure used for the Census 2000 public use microdata samples for the geography and the particular characteristic estimated. The design factors provided in this chapter are based on computations from the full census sample and, as such, do not reflect the additional stratification used in the selection of the public use microdata samples (see Chapter 5). In general, these factors provide conservative estimates of the standard error. In addition, these factors only pertain to individual data items (e.g., educational attainment, employment status) and are not entirely appropriate for use with detailed cross-tabulated data. To calculate the approximate standard error of an estimate from the 5-percent or 1-percent sample follow the steps given below.

1. Obtain the unadjusted standard error for the sampling rate used from Table A or C for estimated totals or from Table B or D for estimated percentages. Alternately, the formula given at the bottom of each table may be used to calculate the unadjusted standard error (for sample sizes other than 5- or 1-percent see the subsampling section).

In using Table A or C, or the corresponding formulas for estimated totals, use weighted figures rather than unweighted sample counts to select the appropriate row. To select the applicable column for person characteristics, use the total population in the area being tabulated (not just the total of the universe being examined), or use the total count of housing units if the estimated total is a housing unit characteristic. Similarly, in using Table B or D, or the corresponding formula for estimated percentages, use weighted figures to select the appropriate column.

2. Use Table E to obtain the design factor for the geography and the characteristic (e.g., place of work or educational attainment). If the estimate is a cross-tabulation of more than one characteristic, scan Table E for the appropriate factors and use the largest factor. Multiply the unadjusted standard error from step 1 by this design factor.

Note: All of the following examples use the 5-percent sample.

Example 1— Standard error of a total. Suppose we tally a 5-percent public use microdata sample for state A. Further, suppose that for county A, the sum of the PUMS weights for all people is 131,220.

The sum of the PUMS weights for those people who are age 16 years and over and in the civilian labor force is 59,948, which in the formula below is $\hat{Y}$.

The basic standard error for the estimated total is obtained from Table A, or from the formula given below Table A. To avoid interpolation, the use of the formula will be demonstrated here. The formula for the basic standard error, SE, for the 5-percent sample is:

$$SE\,(\hat{Y}) = \sqrt{19\,(\hat{Y})\left(1 - \frac{\hat{Y}}{N}\right)}$$

So, the basic standard error in example 1 is:

$$SE(59{,}948) = \sqrt{19(59{,}948)\left(1 - \frac{59{,}948}{131{,}220}\right)} \approx 787 \text{ People}$$

The standard error of the estimated 59,948 people 16 years and over who were in the civilian labor force is found by multiplying the basic standard error, 787, by the appropriate design factor (Employment Status) from Table E. Assume the design factor from Table E for employment status for state A is 1.2, thus the standard error is:

$$SE(59{,}948) = 787 \times 1.2 \approx 944 \text{ people}$$

Note that in this example the total weighted count of people in county A of 131,220 was used.

Example 2— Standard error of a percent. Suppose there are 95,763 people in county A in state A aged 16 years and over. The estimated percent of people 16 years and over who were in the civilian labor force, $\hat{p}$, is 62.6. The formula for the unadjusted standard error of a percentage given in Table B, is:

$$SE(\hat{p}) = \sqrt{\frac{19}{B}\hat{p}(100 - \hat{p})}$$

$$SE(62.6) = \sqrt{\frac{19}{95{,}763}62.6(100-62.6)} \approx 0.68 \text{ percentage points}$$

Therefore, the standard error for the estimated 62.6 percent of people 16 years and over, who were in the civilian labor force is 0.68 x 1.2 = 0.82 percentage points. Note that in this example the base, B, is defined as the weighted count of people 16 years old and over, 95,763.

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.

Example 3— Computing a confidence interval. In example 1, the standard error of the 59,948 people 16 years and over in county A, in state A who were in the civilian labor force was approximately 944. Thus, a 90-percent confidence interval for this estimated total is:

$$[59{,}948 - (1.645 \times 944)] \text{ to } [59{,}948 + (1.645 \times 944)] \text{ or } [58{,}395,\ 61{,}501]$$

One can say that 90 percent of the intervals constructed from repeated samples of the same population will contain the value obtained by averaging all possible values.

Example 4— Computing a confidence interval for a sum or difference. Suppose the estimate of people in county B, age 16 years and over, who were in the civilian labor force was 69,314 and the estimated total number of people 16 years and over was 116,666. Further, suppose the population of county B was 225,225. Thus, the estimated percentage of people 16 years and over, who were in the civilian labor force is approximately 59.4 percent. The unadjusted standard error from Table B is approximately 0.63 percentage points. Assume Table E shows the design factor to be 1.2 for "Employment Status" for the state containing county B. Thus, the approximate standard error of the percentage (59.4 percent) is 0.63 x 1.2 = 0.76 percentage points.

Now, suppose that one wished to obtain the standard error of the difference between county A and county B of the percentage of people 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:

$$62.6 - 59.4 = 3.2 \text{ percentage points.}$$

Using the results of the previous example:

$$SE(3.2) = SE(62.6-59.4) = \sqrt{(0.82)^2 + (0.76)^2} \approx 1.12 \text{ percentage points}$$

The 90-percent confidence interval for the difference is formed as before:

$$[3.20 - (1.645 \times 1.12] \text{ to } [3.20 + (1.645 \times 1.12] \text{ or } [1.36\%,\ 5.04\%]$$

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.

When, as in this example, the interval does not include zero, one can conclude, again with 90-percent confidence, that the difference observed between the two counties for this characteristic is greater than can be attributed to sampling error.

Example 5— Computing the standard error and confidence interval for a ratio. For reasonably large samples, ratio estimates are approximately 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 people who were 16 years and over and who were in the civilian labor force in county A to the estimate of people who were 16 years and over and who were in the civilian labor force in county B. The ratio of the two estimates of interest is:

$$59{,}948 \,/\, 69{,}314 \approx 0.86$$

$$\mathrm{SE}(0.86) = \left(\frac{59{,}948}{69{,}314}\right)\sqrt{\frac{(944)^2}{(59{,}948)^2} + \frac{(1{,}146)^2}{(69{,}314)^2}} \approx 0.02$$

Using the results above, the 90-percent confidence interval for this ratio would be:

$$[0.86 - (1.645 \times 0.02)] \text{ to } [0.86 + (1.645 \times 0.02)] \text{ or } [0.83, 0.89]$$

Example 6— Computing the standard error and confidence interval of a median. The following example shows the steps for calculating an estimated standard error and confidence interval for the median housing value in a hypothetical city, city C.

1. Suppose the design factor in Table E for the housing characteristic "Value" is 1.2 for the state containing city C.
2. Obtain the weighted frequency distribution for housing values in city C. The base is the sum of the weighted frequencies (4,227).

Table 1. Frequency Distribution and Cumulative Totals for Housing Value

Housing value	Frequency	Cumulative sum	Cumulative percent
Less than $50,000	1,548	1,548	36.62
$50,000 to $99,999	820	2,368	56.02
$100,000 to $149,999	752	3,120	73.81
$150,000 to $199,999	524	3,644	86.21
$200,000 to $299,999	300	3,944	93.30
$300,000 to $499,999	248	4,192	99.17
$500,000 or more	35	4,227	100.00

3. Determine the standard error of the estimate of 50 percent from the distribution:

$$\mathrm{SE}(50 \text{ percent}) = \sqrt{\left(\frac{19}{4{,}227} \times 50^2\right)} \times 1.2 \approx 4.02$$

4. Calculate a confidence interval with bounds:

$$\mathrm{p_lower} = 50 - 4.02 = 45.98$$

$$\mathrm{p_upper} = 50 + 4.02 = 54.02$$

From the given distribution, the category with the cumulative percent first exceeding 45.98 percent is $50,000 to $99,999. Therefore, A1 = $50,000. C1 is the cumulative percent of housing units with value less than $50,000. As a result, C1 = 36.62 percent.

The category with the cumulative percent that first exceeds 54.02 percent is also $50,000 to $99,999. A2 is the smallest value in the next (higher) category, resulting in A2 = $100,000. C2 is the cumulative percent of housing units with value less than $100,000. Thus, C2 = 56.02 percent.

5. Given the values obtained in earlier steps, calculate the lower and upper bounds of the confidence interval about the median:

$$\text{Lower Bound} = \left[\frac{45.98 - 36.62}{56.02 - 36.62}\right] \text{x } (\$100{,}000 - \$50{,}000) + \$50{,}000$$

$$\text{Upper Bound} = \left[\frac{54.02 - 36.62}{56.02 - 36.62}\right] \text{x } (\$100{,}000 - \$50{,}000) + \$50{,}000$$

The confidence interval is [$74,124, $94,845]

6. The estimated standard error of the median is:

$$\text{SE(median)} = \frac{\$94{,}845 - \$74{,}124}{2} \approx \$10{,}361$$

Example 7— Computing the standard error of a mean. This example shows the steps for calculating the standard error for the average commuting time for those who commute to work in a hypothetical city, city D. The frequency distribution is given in Table 2.

Table 2.Frequency Distribution for Travel Time to Work

Travel time to work	Frequency
Did not work at home:	**776,619**
Less than 5 minutes	14,602
5 to 9 minutes	69,066
10 to 14 minutes	107,161
15 to 19 minutes	138,187
20 to 24 minutes	139,726
25 to 29 minutes	52,879
30 to 34 minutes	120,636
35 to 39 minutes	19,751
40 to 44 minutes	25,791
45 to 59 minutes	50,322
60 to 89 minutes	29,178
90 or more minutes	9,320
Worked at home	**19,986**

1. Cumulating the frequencies over the 12 categories for those who commuted to work (i.e., did not work at home) yields the population count (base) of 776,619 workers age 16 years and over.

2. Find the midpoint m_j for each of the 12 categories. Multiply each category's proportion p_j by the square of the midpoint and sum this product over all categories.

For example, the midpoint of category 1 "Less than 5 minutes" is

$$m_1 = \frac{0+5}{2} = 2.5 \text{ minutes,}$$

while the midpoint of the 12th category "90 or more minutes" is

$$m_{12} = \left(\frac{3}{2}\right) 90 = 135 \text{ minutes.}$$

The proportion of units in the first category, p_1, is

$$p_1 = \frac{14{,}602}{776{,}619} = 0.019.$$

Necessary products for the standard error calculation are given in Table 3 along with totals.

Table 3.Calculations for Travel Time to Work

Travel time to work	p_j	m_j	$p_j m_j^2$	$p_j m_j$
Did not work at home:				
Less than 5 minutes	0.019	2.5	0.119	0.048
5 to 9 minutes	0.089	7	4.361	0.623
10 to 14 minutes	0.138	12	19.872	1.656
15 to 19 minutes	0.178	17	51.442	3.026
20 to 24 minutes	0.180	22	87.120	3.960
25 to 29 minutes	0.068	27	49.572	1.836
30 to 34 minutes	0.155	32	158.720	4.960
35 to 39 minutes	0.025	37	34.225	0.925
40 to 44 minutes	0.033	42	58.212	1.386
45 to 59 minutes	0.065	52	175.760	3.380
60 to 89 minutes	0.038	74.5	210.910	2.831
90 or more minutes	0.012	135	218.700	1.620
Total			**1069.013**	**26.251**

3. To estimate the mean commuting time for people in city D, multiply each category's proportion by its midpoint and sum over all categories in the universe. Table 3 shows an estimated mean travel time to work, $\bar{x}$, of 26 minutes.

4. Calculate the estimated population variance.

$$s^2 = 1069.013 - (26)^2 = 393.013$$

5. Assume the design factor for "Travel time to work" for the state containing city D is 1.3. Use this information and the results from steps 1 through 4 to calculate an estimated standard error for the mean as:

$$SE(\bar{x}) = \sqrt{\left(\frac{19}{776{,}619} \times 393.013\right)} \times 1.3 \approx 0.13 \text{ minutes.}$$

SELECTING AN APPROPRIATE SAMPLE SIZE

One virtue in the use of the Tables A through D for calculating standard errors and confidence intervals is that this method can be employed prior to making any sample tabulation, and thus, can help the user decide whether a 5-percent or 1-percent sample size is most appropriate for a proposed study.

Suppose that in example 1, the 59,948 figure was based on published census sample data. The confidence interval could be calculated as above. In this case, tabulating a 5-percent sample for this particular characteristic would result in a 90-percent confidence interval [58,395, 61,501]. The width of this interval is 3,106. Tabulating from a 1-percent sample for the same characteristic would result in a confidence interval of [56,404, 63,042]. The width of the interval from the 1-percent sample is 7,088 (over two times the width of the confidence interval from the 5-percent sample). A data user may find this information useful in deciding which sample to use.

Another criterion used in making this type of decision is the coefficient of variation (CV). The CV is a measure of reliability and is defined as the ratio of the standard error of the estimate and the absolute value of the expected value of the estimate. To get an estimate of the CV, substitute the estimate itself for the expected value in the CV formula. In this example, if the 59,948 estimate is obtained from the 5-percent sample, the CV would be 1.6 percent. If the 1-percent sample is tallied to get the estimate then the CV would be 3.6 percent. The smaller the CV, the more reliable the estimate. There is no particular rule of thumb that dictates how large a confidence interval or CV is acceptable. This depends on the relative precision necessary for a particular application as balanced against the relative cost of tabulating microdata samples of the various sizes.

USING TABLES A THROUGH D FOR OTHER SAMPLE SIZES

Tables A through D may also be used to approximate the unadjusted standard errors for other sample sizes by adjusting for the sample size desired. The adjustment for sample size is obtained as described below.

Let: f_1 be the sampling rate in any of the Tables A through D, and;
f_2 be the sampling rate for the sample size to be used. The adjustment for sample size can be read from the following table:

Standard Error Sample Size Adjustment Factors for Different Sampling Rates

f_1 = 0.05		f_1 = 0.01	
f_2	Adjustment factor	f_2	Adjustment factor
0.06	0.91	0.009	1.05
0.04	1.12	0.005	1.42
0.03	1.30	0.003	1.83
0.02	1.61	0.002	2.25

For example, if the user were to select a subsample of one half of a 1-percent sample, i.e., f_2 = 0.005, then the standard errors shown in Tables C or D for a 1-percent sample must be multiplied by 1.42 to obtain the standard errors for a 0.005 sample. The factor of 1.42 shows that the standard errors increase by 42 percent when the sample size is halved.

The principle is also applicable when combining microdata samples to achieve a sample size larger than 5 percent. If, for example, both samples are combined for the same area to obtain an estimate of a characteristic, the standard errors for this sample size (i.e., 6 percent) can be obtained by multiplying those shown in Tables A and B by 0.91. Thus, the increase from a 5-percent to a 6-percent sample reduces the standard error by 9 percent.

The formula used to compute the sample size adjustment factor is:

$$\text{Adjustment Factor} = \frac{\sqrt{\left(\frac{1}{f_2}\right) - 1}}{\sqrt{\left(\frac{1}{f_1}\right) - 1}}$$

Alternatively, the user may wish to use the following formulas to calculate the unadjusted standard errors directly. For estimated totals the formula is:

$$SE(\hat{Y}) = \sqrt{\left(\frac{1}{f_2} - 1\right)\hat{Y}\left(1 - \left(\frac{\hat{Y}}{N}\right)\right)}$$

where:
N = size of geographic area, and;
$\hat{Y}$ = estimate (weighted) of characteristic total.

Example 1 shows the unadjusted standard error for the figure 59,948 to be 787. Using the above formula with f_2= 0.06 yields an unadjusted standard error of 714 for a 9-percent reduction in the standard error as shown in the above table.

For an estimated percentage the formula is:

$$SE(\hat{Y}) = \sqrt{\left(\frac{1}{f_2} - 1\right)\left(\frac{\hat{p}(100 - \hat{p})}{B}\right)}$$

where:
$\hat{p}$ = estimated percentage, and;
B = base of estimated percentage (weighted estimate).

ESTIMATION OF STANDARD ERRORS DIRECTLY FROM THE MICRODATA SAMPLES

Use of tables or formulas to derive approximate standard errors as discussed above is simple and does not complicate processing. Nonetheless, a more accurate estimate of the standard error can be obtained from the samples themselves, using the random group method. Using this method it is also possible to compute standard errors for mean ratios, indexes, correlation coefficients, or other statistics for which the tables or formulas presented earlier do not apply.

The random group method does increase processing time somewhat since it requires that the statistic of interest, for example a total, be computed separately for each of up to 100 random groups. The variability of that statistic for the sample as a whole is estimated from the variability of the statistic among the various random groups within the sample. The procedure for calculating a standard error by the random group method for various statistics is given below.

Totals. To obtain the standard errors of estimated totals the following method should be used. The random groups estimate of variance of $\hat{X}$ is given by:

$$\text{var}(\hat{X}) = \left(\frac{t}{t-1}\right)\sum_{g=1}^{t}\left[X_g - \frac{1}{t}\left(\sum_{g=1}^{t} x_g\right)\right]^2$$

or the computational formula:

$$\text{var}(\hat{X}) = \left(\frac{t}{t-1}\right)\sum_{g=1}^{t} x_g^2 - t\bar{x}_g^2$$

where:
t = number of random groups, and;
x_g = the weighted microdata sample total of the characteristic of interest from the gth random group.

$$\bar{x}_g = \sum_{g=1}^{t}\frac{x_g}{t}$$

$$\text{SE}(\hat{X}) = \sqrt{\text{var}(\hat{X})}$$

It is suggested that t = 100 for estimating the standard error of a total since, as it is discussed in the next chapter, each of the sample records was assigned a two-digit subsample number sequentially from 00 to 99. The two-digit number can be used to form 100 random groups.

For example, a sample case with 01 as the two-digit number will be in random group 1. All sample cases with 02 as the two-digit number will be in random group 2, etc., up to 00 as the one hundredth random group. The reliability of the random group variance estimator is a function of both the kurtosis of the estimator and the number of groups, t. If t is small, the coefficient of variation (CV) will be large, and therefore, the variance estimator will be of low precision. In general, the larger t is, the more reliable the variance estimator will be.

Percentages, ratios, and means. To obtain the estimated standard error of a percent, ratio, or mean, the following method should be used.

Let

$\hat{r} = \frac{\hat{x}}{\hat{y}}$ be the estimated percent ratio, or mean where:

$\hat{x}$ and $\hat{y}$ = the estimated totals as defined above for the X and Y characteristics.

For the case where both the numerator and the denominator are obtained from the full microdata sample (i.e. the file was not subsampled) then the variance of is given by

$$\text{var}(\hat{r}) = \left(\frac{t}{t-1}\right)\left(\frac{1}{\hat{y}}\right)^2\sum_{g=1}^{t}(x_g - \hat{r}\,y_g)^2$$

where:
t and x_g are defined above,
$\hat{y}$ = the weighted full microdata sample total for the y characteristic, and;
y_g = the corresponding weighted total for the gth random group.

CORRELATION COEFFICIENTS, REGRESSION COEFFICIENTS AND COMPLEX STATISTICS

The random group method for computing the variance of correlation coefficients, regression coefficients, and other complex nonlinear statistics may be expressed as:

$$\text{var}(\hat{A}) = \left(\frac{t}{t-1}\right) \sum_{g=1}^{t} (\hat{A}_g - \hat{A})^2$$

where:
$\hat{A}_g$ = the weighted estimate (at the tabulation area level) of the statistic of interest computed from the gth random group, and;
$\hat{A}$ = corresponding weighted estimate computed from the full microdata sample.

Care must be exercised when using this variance estimator for complex nonlinear statistics as its properties have not been fully explored for such statistics. In particular, the choice of the number of random groups must be considered more carefully. When using the 5-percent sample, use of t=100 for all areas tabulated is recommended. When using the 1-percent sample or samples having a smaller sampling fraction, the user should consider using a smaller number of random groups to ensure that each random group contains at least 25 records. Fewer than 100 random groups can be formed by appropriate combination of the two-digit subsample numbers. For example, to construct 50 random groups assign all records in which the subsample number is 01 or 51 to the first random group; all records in which the subsample number is 02 or 52 to the second random group, etc. Finally, assign all records in which the subsample number is 00 or 50 to random group 50. Ten random groups can be constructed by including all records having subsample numbers with the same "units" digit in a particular random group. For example, subsample numbers 00,10,...,90 would form one random group; subsample numbers 01,11,...,91 would form a second random group, etc.

STANDARD ERRORS FOR SMALL ESTIMATES

Percentage estimates of zero and estimated totals of zero are subject to both sampling and non-sampling error. While the magnitude of the error is difficult to quantify, users should be aware that such estimates are nevertheless subject to both sampling and nonsampling error even though in the case of zero estimates the corresponding random groups estimate of variance will be zero.

Also, the standard error estimates obtained using the random groups method do not include all components of the variability due to nonsampling error that may be present in the data. Therefore, the standard errors calculated using the methods described in this section represent a lower bound for the total error. Data users should be aware that, in general, confidence intervals formed using these estimated standard errors do not meet the stated levels of confidence. Data users are advised to be conservative when making inferences from the data provided in this data product.

NONSAMPLING ERROR

In any large-scale statistical operation, such as Census 2000, human and processing errors occur. These errors are commonly referred to as nonsampling errors. Such errors include: not enumerating every household or every person in the population, failing to obtain all required information from the respondents, obtaining incorrect or inconsistent information, and recording information incorrectly. In addition, errors can occur during the field review of the enumerators' work, during clerical handling of the census questionnaires, or during the electronic data capturing and processing of the questionnaires.

While it is impossible to completely eliminate nonsampling error from an operation as large and complex as the decennial census, the Census Bureau attempts to control the sources of such error during the data collection and processing operations. The primary sources of nonsampling error and the programs instituted to control this error in Census 2000 are described below. The success of these programs, however, was contingent upon how well the instructions were actually carried out during the census.

Types of Nonsampling Error

Nonresponse. Nonresponse to particular questions on the census questionnaire or the failure to obtain any information for a housing unit allows for the introduction of bias into the data because 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 these differences either at the elemental level (individual person or housing unit) or on average. As part of the data processing, people and/or housing units for which sample data were not collected may have their data imputed to ensure a sufficient number of sample people/housing units in a given area. As a result, the imputation rates for some small geographic areas, such as tracts, may be very high. The Census Bureau cautions data users about the impact the higher imputation rates may have on the sample characteristics. Some protection against the introduction of large biases is afforded by minimizing nonresponse. Characteristics for the nonresponses were imputed by using reported data for a person or housing unit with similar characteristics.

Respondent and enumerator error. The person answering the mail questionnaire for a household or responding to the questions posed by an enumerator could serve as a source of error, although the question wording was extensively tested in several experimental studies prior to the census. The mail respondent may overlook or misunderstand a question, or answer a question in a way that cannot be interpreted correctly by the data capture system. Also, the enumerator may: misinterpret or otherwise incorrectly record information given by a respondent, fail to collect some of the information for a person or household, or collect data for households that were not designated as part of the sample. Enumerators were monitored carefully to minimize these types of field enumeration problems. Field staff was prepared for their tasks by using standardized training packages that included hands-on experience with census materials. A sample of the households interviewed by each enumerator was reinterviewed to control for the possibility of fabricated data being submitted by enumerators.

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 completed by enumerators included field review by the crew leader, check-in, and transmittal of completed questionnaires. No field reviews were done on the mail return questionnaires. Error may also be introduced by the misinterpretation of data by the data capture system, or the failure to capture all the information that the respondents or enumerators provided on the forms. Write-in entries go through coding operations, which may also be a source of processing error in the data. Many of the various field, coding, and computer operations undergo a number of quality control checks to help ensure their accurate application.

Reduction of Nonsampling Error

A number of techniques were implemented during the census planning and development stages to reduce various types of nonsampling errors. Quality assurance methods were used throughout the data collection and processing phases of the census to improve the quality of the data. In addition, the Census Bureau implemented a reinterview program to minimize errors in the data-collection phase for enumerator-filled questionnaires.

Several initiatives were implemented during Census 2000 to minimize the undercoverage of population and housing units and to reduce costs. These programs were developed based on experience from the 1990 decennial census and results from the Census 2000 testing cycle. They included:

- Be Counted questionnaires—unaddressed forms requesting all short form data and a few additional items - were available in public locations for people who believed they were not otherwise counted.
- An introductory letter was sent to all Mailout/Mailback addresses and many addresses in Update/Leave areas prior to the mailing of the census form. A reminder postcard was also sent to these addresses.

- Forms in Spanish and other languages were mailed to those who requested them by returning the introductory letter.
- A well-publicized, toll-free telephone number was available to answer questions about the census forms. Responses from people in households who received a short form could be taken over the telephone.
- Under the Local Update of Census Addresses (LUCA) program, local officials had the opportunity to address specific concerns about the accuracy and completeness of the Master Address File before mailings began.

Resolving Multiple Responses

There were multiple modes of response for Census 2000. Because there were various ways people could initiate their enumeration in the census it was very likely that some people could be enumerated more than once. A special computer process was implemented to control this type of nonsampling error by resolving situations where more than one form was received from a particular housing unit, as designated by its identification (ID). The process consisted of several steps. IDs that had more than one viable returned census form were analyzed to create a household roster. Within each of these IDs, the person records on each return were compared with person records on the other return(s). People included on two or more different returns were marked as such, and only one of the person records was used in the creation of the household roster.

EDITING OF UNACCEPTABLE DATA

The objective of the processing operation was to produce a set of data that describes the population as accurately and clearly as possible. In a major change from past practice, the information on Census 2000 questionnaires generally was not edited for consistency, completeness, or acceptability during field data collection or data capture operations. Census crew leaders and local office clerks reviewed enumerator-filled questionnaires for adherence to specified procedures. Unlike previous censuses, mail return questionnaires were not subjected to clerical review and households were not contacted to collect missing data.

Most census questionnaires received by mail from respondents as well as those filled by enumerators were processed through a new contractor-built image scanning system that used optical mark and character recognition to convert the responses into computer files. The optical character recognition, or OCR, process used several pattern and context checks to estimate accuracy thresholds for each write-in field. The system also used "soft edits" on most interpreted numeric write-in responses to decide whether the field values read by the machine interpretation were acceptable. If the value read had a lower than acceptable accuracy threshold or was outside the soft edit range, the image of the item was displayed to a keyer who then entered the response.

To control the possible creation of erroneous people from questionnaires containing stray marks or completed incorrectly, the data capture system included an edit for the number of people indicated on each mail return and enumerator-filled questionnaire. If the edit failed, the questionnaire image was reviewed at a workstation by an operator. The operator identified erroneous person records and corrected OCR interpretation errors in the population count field.

At Census Bureau headquarters, the mail response data records were subjected to a computer edit that identified households exhibiting a possible coverage problem and those with more than six household members - the maximum number of people who could be enumerated on a mail questionnaire. Attempts were made to contact these households on the telephone to correct the count inconsistency and to collect census data for those people for whom there was no room on the questionnaire.

Incomplete or inconsistent information on the questionnaire data records was assigned acceptable values using imputation procedures during the final automated edit of the collected data. As in previous censuses, the general procedure for changing unacceptable entries was to assign an entry for a person that was consistent with entries for people with similar characteristics. Assigning 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 substitution. Substitution assigned a full set of characteristics for people in a household. If there was an indication that a household was occupied by a specified number of people but the questionnaire contained no information for people within the household, or if the occupants were not listed on the questionnaire, the Census Bureau selected a previously accepted household of the same size with the same demographic characteristics and substituted its full set of characteristics for this household.

USE OF ALLOCATION FLAGS IN THESE FILES

As a result of the editing there are no blank fields or missing data in public use microdata sample files. Each field contains a data value or a "not applicable" indicator, except for the few items where allocation was not appropriate and a "not reported" indicator is included. For every subject item it is possible for the user to differentiate between entries which were allocated, by means of "allocation flags" in the microdata files. For all items it is possible to compute the allocation rate and, if the rate is appreciable, compute the distribution of actually observed values (with allocated data omitted) and compare it with the overall distribution including allocated values. The allocation flags indicate the changes made between observed and final output values.

These flags may indicate up to four possible types of allocations:

a. **Pre-edit.** When the original entry was rejected because it fell outside the range of acceptable values.

b. **Consistency.** Imputed missing characteristics based on other information recorded for the person or housing unit.

c. **Hot Deck.** Supplied the missing information from the record of another person or housing unit.

d. **Cold Deck.** Supplied missing information from a predetermined distribution.

In general, the allocation procedures provide better data than could be obtained by simply weighting up the observed distribution to account for missing values. The procedures reflect local variations in characteristics as well as variations among the strata used in imputation. There are, however, certain circumstances where allocated data may introduce undesirable bias. It may be particularly important to analyze allocations of data in detailed studies of subpopulations or in statistics derived from cross-classification of variables, such as correlation coefficients or measures of regression. The degree of editing required was greater for some subjects than for others. While the allocation procedure was designed to yield appropriate statistics for the overall distribution or for specific subpopulations (the strata used in the allocation process), allocated characteristics will not necessarily have a valid relationship with other observed variables for the same individual. For example, consider a tabulation of people 80 years old and over by income. Income allocations were made separately for different age groupings, including the category 65 years old and over, but not separately for people 80 years old and over.

If people 65 to 70 or 75 are more likely to have significant earnings than people 80 or over, allocated income data for the latter group might be biased upward. Thus, if the rate of allocations for the group is appreciably large, and a bias in the allocated value is evident, it may be desirable to exclude allocated data from the analysis.

It should also be apparent from this illustration that knowledge of the specific allocation procedures is valuable in detailed subject analysis. Descriptions of the editing and allocation procedures for each item are being incorporated in the History of the 2000 Census of Population and Housing to be published later. A user may contact either the Population Division or Housing and Household Economic Statistics Division, Bureau of the Census, if more information is desired on the allocation scheme for a specific subject item.

Table A. Unadjusted Standard Errors for Estimated Totals from Census 2000 5-Percent PUMS

Estimated total[1]	Size of geographic area tabulated[2]							
	100,000	250,000	500,000	750,000	1,000,000	5,000,000	10,000,000	25,000,000
1,000	137	138	138	138	138	138	138	138
2,500	215	217	217	218	218	218	218	218
5,000	300	305	307	307	307	308	308	308
10,000	414	427	432	433	434	435	436	436
15,000	492	518	526	528	530	533	533	534
25,000	597	654	672	678	681	687	688	689
75,000	597	999	1,101	1,132	1,148	1,185	1,189	1,192
100,000		1,068	1,233	1,283	1,308	1,365	1,371	1,376
250,000			1,541	1,780	1,887	2,124	2,152	2,169
500,000				1,780	2,179	2,924	3,004	3,051
750,000					1,887	3,480	3,631	3,718
1,000,000						3,899	4,135	4,271
5,000,000							6,892	8,718
10,000,000								10,677

[1]For estimated totals larger than 10,000,000, the standard error is somewhat larger than the table values. The formula (1) given below should be used to calculate the standard error.

[2]Total count of people, housing units, households, or families in the area if the estimated total is a person, housing unit, household, or family characteristic, respectively.

$$SE(\hat{Y}) = \sqrt{19(\hat{Y})\left(1 - \frac{\hat{Y}}{N}\right)} \quad (1)$$

N = Size of geographic area

$\hat{Y}$ = Estimate of characteristic total

Table B. Unadjusted Standard Errors for Estimated Percentages from Census 2000 5-Percent PUMS (Standard Errors Expressed in Percentage Points)

Estimated percentage	Base (weighted total) of percentage[1]										
	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	1.9	1.6	1.2	0.9	0.7	0.6	0.4	0.3	0.2	0.1	0.1
5 or 95	3.0	2.5	1.9	1.3	1.1	1.0	0.6	0.4	0.3	0.2	0.1
10 or 90	4.1	3.4	2.6	1.8	1.5	1.3	0.8	0.6	0.4	0.3	0.2
15 or 85	4.9	4.0	3.1	2.2	1.8	1.6	1.0	0.7	0.5	0.3	0.2
20 or 80	5.5	4.5	3.5	2.5	2.0	1.7	1.1	0.8	0.6	0.3	0.2
25 or 75	6.0	4.9	3.8	2.7	2.2	1.9	1.2	0.8	0.6	0.4	0.3
30 or 70	6.3	5.2	4.0	2.8	2.3	2.0	1.3	0.9	0.6	0.4	0.3
35 or 65	6.6	5.4	4.2	2.9	2.4	2.1	1.3	0.9	0.7	0.4	0.3
50	6.9	5.6	4.4	3.1	2.5	2.2	1.4	1.0	0.7	0.4	0.3

[1]For a percentage and/or base of a percentage not shown in the table, use the formula (2) given below to calculate the standard error.

$$SE(\hat{p}) = \sqrt{\frac{19}{B}\hat{p}(100 - \hat{p})} \quad (2)$$

B = Base of estimated percentage

$\hat{p}$ = Estimated percentage

Table C. Unadjusted Standard Errors for Estimated Totals from Census 2000 1-Percent PUMS

Estimated total[1]	Size of geographic area tabulated[1]							
	100,000	250,000	500,000	750,000	1,000,000	5,000,000	10,000,000	25,000,000
1,000	313	314	314	314	314	315	315	315
2,500	491	495	496	497	497	497	497	497
5,000	686	696	700	701	702	703	703	703
10,000	944	975	985	988	990	994	994	995
15,000	1,123	1,181	1,200	1,206	1,209	1,217	1,218	1,218
25,000	1,362	1,492	1,533	1,547	1,553	1,569	1,571	1,572
75,000	1,362	2,280	2,512	2,585	2,621	2,704	2,715	2,721
100,000		2,437	2,814	2,929	2,985	3,115	3,131	3,140
250,000			3,518	4,062	4,308	4,849	4,912	4,950
500,000				4,062	4,975	6,675	6,857	6,965
750,000					4,308	7,944	8,287	8,487
1,000,000						8,899	9,439	9,749
5,000,000							15,732	19,900
10,000,000								24,372

[1]For estimated totals larger than 10,000,000, the standard error is somewhat larger than the table values. The formula (3) given below should be used to calculate the standard error.

[2]Total count of people, housing units, households, or families in the area if the estimated total is a person, housing unit, household, or family characteristic, respectively.

$$SE(\hat{Y}) = \sqrt{99(\hat{Y})\left(1 - \frac{\hat{Y}}{N}\right)} \quad (3)$$

N = Size of geographic area

$\hat{Y}$ = Estimate of characteristic total

Table D. Unadjusted Standard Errors for Estimated Percentages from Census 2000 1-Percent PUMS (Standard Errors Expressed in Percentage Points)

Estimated percentage	Base (weighted total) of percentage[1]										
	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	4.4	3.6	2.8	2.0	1.6	1.4	0.9	0.6	0.4	0.3	0.2
5 or 95	6.9	5.6	4.3	3.1	2.5	2.2	1.4	1.0	0.7	0.4	0.3
10 or 90	9.4	7.7	6.0	4.2	3.4	3.0	1.9	1.3	0.9	0.6	0.4
15 or 85	11.2	9.2	7.1	5.0	4.1	3.6	2.2	1.6	1.1	0.7	0.5
20 or 80	12.6	10.3	8.0	5.6	4.6	4.0	2.5	1.8	1.3	0.8	0.6
25 or 75	13.6	11.1	8.6	6.1	5.0	4.3	2.7	1.9	1.4	0.9	0.6
30 or 70	14.4	11.8	9.1	6.4	5.3	4.6	2.9	2.0	1.4	0.9	0.6
35 or 65	15.0	12.3	9.5	6.7	5.5	4.7	3.0	2.1	1.5	0.9	0.7
50	15.7	12.8	9.9	7.0	5.7	5.0	3.1	2.2	1.6	1.0	0.7

[1]For a percentage and/or base of a percentage not shown in the table, use the formula (4) given below to calculate the standard error.

$$SE(\hat{p}) = \sqrt{\frac{99}{B}\hat{p}(100 - \hat{p})} \quad (4)$$

B = Base of estimated percentage

$\hat{p}$ = Estimated percentage

Table E. Census 2000 PUMS Standard Error Design Factors—United States

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.2
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.5
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.3
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Alabama

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.0
Hispanic or Latino	2.0
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.1
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Alaska

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.2
Race	1.9
Hispanic or Latino.	1.9
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.7
Place of birth	1.4
Citizenship status	1.5
Residence in 1995	1.9
Year of entry	1.5
Language spoken at home and ability to speak English	1.3
Educational attainment	1.2
School enrollment	1.3
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.0
Subfamily type and presence of children	1.2
Grandparent status and responsibility for grandchild	1.3
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.1
Number of workers in family in 1999	1.2
Place of work	1.2
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.2
Private vehicle occupancy	1.3
Type of income in 1999	1.3
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.4
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.2
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.1
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Arizona

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.3
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.2
Disabled and employment disability	1.4
Ancestry	1.9
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.8
Language spoken at home and ability to speak English	1.6
Educational attainment	1.3
School enrollment	1.5
Type of residence (urban/rural)	1.6
Household type	1.2
Family type	2.3
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.5
Employment status	1.2
Industry	1.4
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.4
Means of transportation to work	1.4
Travel time to work	1.4
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.4
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.6
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.3
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.3
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Arkansas

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.0
Hispanic or Latino	2.0
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—California

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.3
Hispanic or Latino	2.3
Marital status	1.1
Household type and relationship	1.2
Disabled and employment disability	1.4
Ancestry	1.9
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	2.1
Year of entry	1.7
Language spoken at home and ability to speak English	1.6
Educational attainment	1.3
School enrollment	1.5
Type of residence (urban/rural)	1.7
Household type	1.2
Family type	2.4
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.5
Employment status	1.3
Industry	1.4
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.4
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.6
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Colorado

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Connecticut

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.6
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.4
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.6
Units in structure	1.0
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Delaware

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.2
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	1.9
Year of entry	1.6
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.5
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.3
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	0.9
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3

Table E. **Census 2000 PUMS Standard Error Design Factors—District of Columbia**

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	1.9
Hispanic or Latino	1.8
Marital status	1.2
Household type and relationship	1.2
Disabled and employment disability	1.3
Ancestry	1.6
Place of birth	1.5
Citizenship status	1.5
Residence in 1995	1.8
Year of entry	1.6
Language spoken at home and ability to speak English	1.6
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	N/A
Household type	1.2
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.5
Employment status	1.3
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.3
Number of workers in family in 1999	1.2
Place of work	1.4
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.3
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	N/A
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.1
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.0
Vehicles available	1.1
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.1
Mortgage status and selected monthly owner costs	1.1
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Florida

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.2
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.2
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.6
Educational attainment	1.3
School enrollment	1.5
Type of residence (urban/rural)	1.6
Household type	1.2
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.5
Employment status	1.2
Industry	1.4
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.4
Means of transportation to work	1.4
Travel time to work	1.4
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.4
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.6
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.3
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.2
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Georgia

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.2
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.9
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.9
Language spoken at home and ability to speak English	1.5
Educational attainment	1.3
School enrollment	1.5
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.3
Subfamily type and presence of children	1.4
Grandparent status and responsibility for grandchild	1.5
Employment status	1.2
Industry	1.4
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.4
Means of transportation to work	1.4
Travel time to work	1.4
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.6
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.3
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.8
Units in structure	1.1
Tenure	1.2
Occupancy status	1.5
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Hawaii

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.2
Disabled and employment disability	1.4
Ancestry	1.9
Place of birth	1.6
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.6
Language spoken at home and ability to speak English	1.6
Educational attainment	1.3
School enrollment	1.5
Type of residence (urban/rural)	1.6
Household type	1.2
Family type	2.4
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.5
Employment status	1.3
Industry	1.3
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.4
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.6
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.7
Units in structure	1.1
Tenure	1.2
Occupancy status	1.2
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.1
Plumbing facilities	1.1
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Idaho

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Illinois

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.2
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.9
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.6
Educational attainment	1.2
School enrollment	1.5
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.3
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.5
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.1
Occupancy status	1.4
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Indiana

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.9
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.8
Units in structure	1.1
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Iowa

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.0
Hispanic or Latino	2.0
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.7
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.0
Subfamily type and presence of children	1.2
Grandparent status and responsibility for grandchild	1.4
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.0
Occupancy status	1.4
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.1
Kitchen facilities	0.9
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.0
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Kansas

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.8
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.1
Occupancy status	1.4
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Kentucky

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.2
Race	1.9
Hispanic or Latino	1.9
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Louisiana

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.0
Hispanic or Latino	2.0
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.6
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.1
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Maine

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.2
Race	1.7
Hispanic or Latino	1.7
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.7
Place of birth	1.4
Citizenship status	1.5
Residence in 1995	1.9
Year of entry	1.4
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.3
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.0
Subfamily type and presence of children	1.2
Grandparent status and responsibility for grandchild	1.3
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.3
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.4
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.6
Units in structure	1.1
Tenure	1.1
Occupancy status	1.1
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Maryland

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.9
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.5
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.5
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.4
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Massachusetts

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.6
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Michigan

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	1.2
Hispanic or Latino	2.0
Marital status	2.0
Household type and relationship	1.0
Disabled and employment disability	1.1
Ancestry	1.3
Place of birth	1.8
Citizenship status	1.4
Residence in 1995	1.6
Year of entry	1.9
Language spoken at home and ability to speak English	1.6
Educational attainment	1.4
School enrollment	1.2
Type of residence (urban/rural)	1.4
Household type	1.5
Family type	1.1
Subfamily type and presence of children	2.1
Grandparent status and responsibility for grandchild	1.2
Employment status	1.4
Industry	1.2
Occupation	1.3
Class of worker	1.2
Usual hours worked per week and weeks worked in 1999	1.3
Number of workers in family in 1999	1.2
Place of work	1.2
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.3
Household income in 1999	1.4
Family income in 1999	1.2
Poverty status in 1999 (people)	1.2
Poverty status in 1999 (families)	1.5
Military service and veteran status	1.2
HOUSING	
Age of householder	1.1
Race of householder	1.2
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	1.1
Units in structure	0.7
Tenure	1.0
Occupancy status	1.1
Value	1.3
Gross rent	1.1
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.1
Kitchen facilities	1.1
Plumbing facilities	0.9
House heating fuel	1.1
Telephone service available	1.2
Vehicles available	1.0
Year householder moved into unit	1.1
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Minnesota

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.7
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.8
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.3
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.4
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.0
Hispanic or Latino householder	1.0
Type of residence (urban/rural)	0.7
Units in structure	0.9
Tenure	1.0
Occupancy status	1.2
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.1
Kitchen facilities	0.9
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.0
Vehicles available	1.1
Year householder moved into unit	1.1
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Mississippi

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.7
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.8
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.3
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.4
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.0
Hispanic or Latino householder	1.0
Type of residence (urban/rural)	0.7
Units in structure	0.9
Tenure	1.0
Occupancy status	1.2
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.1
Kitchen facilities	0.9
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.0
Vehicles available	1.1
Year householder moved into unit	1.1
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Missouri

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.0
Hispanic or Latino	2.0
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.1
Kitchen facilities	0.9
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.0
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Montana

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.2
Race	1.9
Hispanic or Latino	1.9
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.7
Place of birth	1.4
Citizenship status	1.5
Residence in 1995	1.9
Year of entry	1.3
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.0
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.4
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.1
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Nebraska

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.8
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.0
Hispanic or Latino householder	1.0
Type of residence (urban/rural)	0.8
Units in structure	0.9
Tenure	1.0
Occupancy status	1.3
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.1
Kitchen facilities	0.9
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.0
Vehicles available	1.1
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.1
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Nevada

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.3
Hispanic or Latino	2.3
Marital status	1.1
Household type and relationship	1.2
Disabled and employment disability	1.4
Ancestry	1.9
Place of birth	1.6
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.7
Educational attainment	1.3
School enrollment	1.6
Type of residence (urban/rural)	1.5
Household type	1.2
Family type	2.3
Subfamily type and presence of children	1.4
Grandparent status and responsibility for grandchild	1.5
Employment status	1.3
Industry	1.4
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.3
Number of workers in family in 1999	1.3
Place of work	1.4
Means of transportation to work	1.4
Travel time to work	1.4
Time leaving home to go to work	1.4
Private vehicle occupancy	1.4
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.6
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.3
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.2
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.3
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—New Hampshire

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	1.9
Hispanic or Latino	1.9
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.6
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.3
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.1
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.4
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—New Jersey

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.2
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.6
Educational attainment	1.2
School enrollment	1.5
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.5
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—New Mexico

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.2
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.9
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.6
Language spoken at home and ability to speak English	1.5
Educational attainment	1.3
School enrollment	1.5
Type of residence (urban/rural)	1.8
Household type	1.1
Family type	2.3
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.4
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.4
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.4
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.6
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.8
Units in structure	1.1
Tenure	1.2
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.1
Plumbing facilities	1.2
House heating fuel	1.2
Telephone service available	1.2
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—New York

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.2
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.2
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.6
Educational attainment	1.3
School enrollment	1.5
Type of residence (urban/rural)	1.6
Household type	1.2
Family type	2.3
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.5
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.6
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.1
Tenure	1.2
Occupancy status	1.4
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—North Carolina

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	1.9
Year of entry	1.9
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.8
Units in structure	1.1
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—North Dakota

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	1.9
Year of entry	1.9
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.8
Units in structure	1.1
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Ohio

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.2
Race	2.0
Hispanic or Latino	2.0
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.6
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.2
Grandparent status and responsibility for grandchild	1.4
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.3
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.4
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.0
Occupancy status	1.3
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.1
Kitchen facilities	0.9
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.0
Vehicles available	1.1
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Oklahoma

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.2
Race	2.0
Hispanic or Latino	2.0
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.5
Residence in 1995	1.8
Year of entry	1.7
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.2
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.3
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.2
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.1
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Oregon

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.6
Educational attainment	1.2
School enrollment	1.5
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Pennsylvania

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.0
Hispanic or Latino	2.0
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Rhode Island

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.1
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.3
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.1
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—South Carolina

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.3
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.1
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.2
Telephone service available	1.2
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—South Dakota

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.2
Race	2.0
Hispanic or Latino	2.0
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.7
Place of birth	1.4
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.6
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.3
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.0
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.3
Employment status	1.1
Industry	.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.4
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.0
Hispanic or Latino householder	1.0
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.0
Occupancy status	1.2
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.2
Kitchen facilities	0.9
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.0
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Tennessee

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.9
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.8
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.1
Tenure	1.1
Occupancy status	1.4
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Texas

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.3
Hispanic or Latino	2.2
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.9
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.6
Educational attainment	1.2
School enrollment	1.5
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.3
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.6
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.3
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Utah

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.3
Hispanic or Latino	2.3
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	2.0
Place of birth	1.5
Citizenship status	1.7
Residence in 1995	2.1
Year of entry	1.9
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.7
Household type	1.1
Family type	2.3
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.5
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.4
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.4
Means of transportation to work	1.4
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.4
Type of income in 1999	1.5
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.1
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Vermont

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.2
Race	1.8
Hispanic or Latino	1.7
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.7
Place of birth	1.4
Citizenship status	1.5
Residence in 1995	1.9
Year of entry	1.6
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.3
Type of residence (urban/rural)	1.4
Household type	1.1
Family type	2.0
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.3
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.1
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.4
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.6
Units in structure	1.0
Tenure	1.1
Occupancy status	1.4
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.1
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Virginia

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Washington

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.3
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.4
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	2.0
Year of entry	1.7
Language spoken at home and ability to speak English	1.5
Educational attainment	1.2
School enrollment	1.5
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.2
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.3
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.3
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.3
Family income in 1999	1.3
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.3
Military service and veteran status	1.2
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.2
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—West Virginia

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.2
Race	1.8
Hispanic or Latino	1.8
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.4
Citizenship status	1.5
Residence in 1995	1.9
Year of entry	1.5
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.3
Grandparent status and responsibility for grandchild	1.4
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.3
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.2
Hispanic or Latino householder	1.2
Type of residence (urban/rural)	0.7
Units in structure	1.1
Tenure	1.1
Occupancy status	1.3
Value	1.2
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.1
Plumbing facilities	1.2
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Wisconsin

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.1
Hispanic or Latino	2.1
Marital status	1.1
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.8
Place of birth	1.5
Citizenship status	1.6
Residence in 1995	1.9
Year of entry	1.7
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.5
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.2
Grandparent status and responsibility for grandchild	1.4
Employment status	1.2
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.0
Hispanic or Latino householder	1.0
Type of residence (urban/rural)	0.7
Units in structure	1.0
Tenure	1.0
Occupancy status	1.4
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.1
Rooms, bedrooms	1.1
Kitchen facilities	0.9
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.0
Vehicles available	1.1
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.2
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Wyoming

Characteristic	Design factor
POPULATION	
Age	1.3
Sex	1.2
Race	2.0
Hispanic or Latino	2.1
Marital status	1.0
Household type and relationship	1.1
Disabled and employment disability	1.3
Ancestry	1.7
Place of birth	1.4
Citizenship status	1.5
Residence in 1995	1.9
Year of entry	1.5
Language spoken at home and ability to speak English	1.4
Educational attainment	1.2
School enrollment	1.4
Type of residence (urban/rural)	1.6
Household type	1.1
Family type	2.1
Subfamily type and presence of children	1.2
Grandparent status and responsibility for grandchild	1.4
Employment status	1.1
Industry	1.3
Occupation	1.2
Class of worker	1.3
Usual hours worked per week and weeks worked in 1999	1.2
Number of workers in family in 1999	1.2
Place of work	1.3
Means of transportation to work	1.3
Travel time to work	1.3
Time leaving home to go to work	1.3
Private vehicle occupancy	1.3
Type of income in 1999	1.4
Household income in 1999	1.2
Family income in 1999	1.2
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.2
Military service and veteran status	1.1
HOUSING	
Age of householder	1.2
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.8
Units in structure	1.0
Tenure	1.1
Occupancy status	1.3
Value	1.1
Gross rent	1.2
Household income in 1999	1.2
Year structure built	1.2
Rooms, bedrooms	1.2
Kitchen facilities	1.0
Plumbing facilities	1.1
House heating fuel	1.2
Telephone service available	1.1
Vehicles available	1.2
Year householder moved into unit	1.2
Mortgage status and monthly mortgage costs	1.1
Mortgage status and selected monthly owner costs	1.2
Gross rent as a percentage of household income in 1999	1.2
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2

Table E. Census 2000 PUMS Standard Error Design Factors—Puerto Rico

Characteristic	Design factor
POPULATION	
Age	1.2
Sex	1.1
Race	1.9
Hispanic or Latino	1.6
Marital status	1.0
Household type and relationship	1.0
Disabled and employment disability	1.2
Ancestry	1.5
Place of birth	1.3
Citizenship status	1.5
Residence in 1995	1.8
Year of entry	1.4
Language spoken at home and ability to speak English	1.4
Educational attainment	1.1
School enrollment	1.3
Type of residence (urban/rural)	1.6
Household type	1.0
Family type	2.1
Subfamily type and presence of children	1.2
Grandparent status and responsibility for grandchild	1.4
Employment status	1.1
Industry	1.2
Occupation	1.1
Class of worker	1.2
Usual hours worked per week and weeks worked in 1999	1.1
Number of workers in family in 1999	1.1
Place of work	1.2
Means of transportation to work	1.2
Travel time to work	1.2
Time leaving home to go to work	1.2
Private vehicle occupancy	1.2
Type of income in 1999	1.3
Household income in 1999	1.1
Family income in 1999	1.1
Poverty status in 1999 (people)	1.5
Poverty status in 1999 (families)	1.1
Military service and veteran status	1.1
HOUSING	
Age of householder	1.1
Race of householder	1.1
Hispanic or Latino householder	1.1
Type of residence (urban/rural)	0.7
Units in structure	1.1
Tenure	1.1
Occupancy status	1.2
Value	1.1
Gross rent	1.1
Household income in 1999	1.1
Year structure built	1.1
Rooms, bedrooms	1.1
Kitchen facilities	1.1
Plumbing facilities	1.1
House heating fuel	1.1
Telephone service available	1.1
Vehicles available	1.1
Year householder moved into unit	1.1
Mortgage status and monthly mortgage costs	1.1
Mortgage status and selected monthly owner costs	1.1
Gross rent as a percentage of household income in 1999	1.1
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.1

Chapter 5.
Sample Design and Estimation

PRODUCING ESTIMATES OR TABULATIONS

To produce estimates or tabulations of 100 percent characteristics from the PUMS files, simply add the weights of all persons or housing units that possess the characteristic of interest.

To create person estimates, use the person weight. To create estimates of households or families, use the person weight of the householder. Use the housing unit weight for housing unit estimates.

For instance, if the characteristic of interest is total number of Hispanic males, aged 5-17, simply determine the sex, age, and Hispanic origin of all persons and cumulate the weights of those who match the characteristic of interest. The PUMS weight is a function of the full census sample weight and the PUMS sample design. The Census 2000 PUMS design is not a self-weighting design.

To get estimates of proportions simply divide the weighted estimate of persons or housing units with a given characteristic by the base sample estimate. For example, the proportion of owner occupied housing units with plumbing facilities is obtained by dividing the PUMS estimate of owner occupied housing units with plumbing facilities by the PUMS estimate of total housing units.

To get estimates of characteristics such as the total number of related children in households, simply multiply the PUMS weight by the value of the characteristic and sum across all household records. If the desired estimate is the number of households with at least one related child in household, add the PUMS person weight of the householder for all households with a value not equal to zero for the characteristic.

LONG FORM SAMPLE DESIGN

The Public Use Microdata Samples are chosen from the universe of Census 2000 Long Form records. Every person and housing unit in the United States was asked basic demographic and housing questions (for example, race, age, and relationship to householder). A sample of these people and housing units was asked more detailed questions about items, such as income, occupation, and housing costs. The sampling unit for Census 2000 was the housing unit, including all occupants. There were four different housing unit sampling rates: 1-in-8, 1-in-6, 1-in-4, and 1in-2 (designed for an overall average of about 1-in-6). The Census Bureau assigned these varying rates based on precensus occupied housing unit estimates of various geographic and statistical entities, such as incorporated places and interim census tracts. For people living in group quarters or enumerated at long form eligible service sites (shelters and soup kitchens), the sampling unit was the person and the sampling rate was 1-in-6.

The sample designation method for housing units depended on the data collection procedures. The majority of the population was enumerated by the mailback procedure. In these areas, the Census Bureau used the Decennial Master Address File (DMAF) to select a probability sample. The questionnaires were either mailed or hand-delivered to selected addresses with instructions to complete and mail back the form.

The housing unit sampling rate varied by census block. Long Form Sampling Entities (LFSEs) were used to determine sampling rates in Census 2000 similarly to the way governmental units were used in the 1990 census sample design. LFSEs were defined to be:

- Counties and county equivalents (such as parishes in Louisiana).
- Cities.
- Incorporated places (including consolidated cities).
- Census designated places in Hawaii only.
- Minor civil divisions in certain states only (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin).
- School districts (based on the 1995-1996 school year).
- American Indian reservations.
- Tribal Jurisdiction Statistical Areas (now known as Oklahoma Tribal Statistical Areas).
- Alaska Native village statistical areas.

Size estimates for LFSEs were based on housing unit counts from the DMAF and occupancy rates from the 1990 census. If the smallest LFSE that included all or any part of a block had an estimated housing unit count of less than 800, the housing units in the block were sampled at a 1in-2 rate. If the smallest LFSE that included all or any part of a block had an estimated housing unit count of 800 or more but less than 1,200, housing units in the block were sampled at a 1-in-4 rate. If a block was not in either of the two previous sampling rate categories, and was part of an interim census tract with 2,000 or more estimated housing units, the housing units in the block were sampled at a 1-in-8 rate. Housing units in all remaining blocks (those not assigned to 1-in-2, 1-in4, or 1-in-8 rates) were sampled at a 1-in-6 rate.

In List/Enumerate areas (accounting for less than 0.5 percent of the housing units), each enumerator was given a blank address register with designated sample lines. Only two sampling rates, 1-in-2 and 1-in-6 were used in these areas. Beginning about Census Day (April 1, 2000), the enumerator systematically canvassed an Assignment Area (AA) 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. If an AA contained any blocks that would qualify for a 1-in-2 or 1-in-4 rate, all households in the AA were sampled at 1-in-2. Housing units in all other AAs were sampled at 1-in-6.

Housing units in American Indian reservations, Tribal Jurisdiction Statistical Areas (now known as Oklahoma Tribal Statistical Areas), and Alaska Native villages were sampled according to the same criteria as other LFSEs, except the size estimates of these LFSEs were based on the American Indian and Alaska Native population in those areas, as measured in the 1990 census. Trust lands were sampled at the highest rate of any part of their associated American Indian reservations. If the associated American Indian reservation was entirely outside the state containing the trust land, then the trust land was sampled at a 1-in-2 rate. All remote Alaska assignment areas were sampled at a rate of 1-in-2. All housing units in Puerto Rico were sampled at a 1-in-6 rate.

Variable sampling rates 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 1 out of every 6 housing units was included in the Census 2000 sample.

ESTIMATION PROCEDURE

The weights that appear on the PUMS files are the product of the long form weight and the PUMS sampling weight. The long form weights were obtained from an iterative ratio estimation procedure (iterative proportional fitting) resulting in the assignment of a weight to each sample person and housing unit record. For any given tabulation area, a characteristic total was estimated by

summing the weights assigned to the people 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 a weight of 6. The estimation procedure, however, did assign weights varying from person to person and housing unit to housing unit.

The estimation procedure used to assign the weights was performed in geographically defined *weighting areas.* Generally, weighting areas were formed of contiguous geographic units within counties. Weighting areas were required to have a minimum sample of 400 people. Also, weighting areas never crossed county boundaries. In small counties with a sample count below 400 people, the minimum sample size condition was relaxed to permit the entire county to become a weighting area.

Augmentation of the Census 2000 sample occurred in a relatively small number of weighting areas where the realized sample size was determined to be inadequate. A systematic sample of person and housing unit records was selected and sample data was imputed for these records.

People

Within a weighting area, the long form sample was ratio-adjusted to equal the 100-percent totals for certain data groups. There were four stages of ratio adjustment for people. The first stage used 21 household-type groups. The second stage used three groups with the following sampling rates: 1-in-2, 1-in-4, and less than 1-in-4. The third stage used the dichotomy householders/nonhouseholders and the fourth stage used 312 aggregate age-sex-race-Hispanic origin groups. The stages were defined as follows:

Stage I: Type of Household

Group	Family with own children under 18: Number of people in housing unit
1	2
2	3
3	4
4	5
5	6-7
6	8 or more
	Family without own children under 18:
7-12	2 through 8 or more
	All other housing units:
13	1
14-19	2 through 8 or more
20	People in group quarters
21	Service Based Enumerations

Stage II: Sampling Type

Group	
1	1-in-2
2	1-in-4
3	1-in-6 or 1-in-8

Stage III: Householder Status

Group	
1	Householder
2	Nonhouseholder

Stage IV: Age/Sex/Race/Hispanic origin

People of Hispanic origin: Black or African American: Male:

Group	Age
1	0-4
2	5-14
3	15-17
4	18-19
5	20-24
6	25-29
7	30-34
8	35-44
9	45-49
10	50-54
11	55-64
12	65-74
13	75+
14-26	Female: Same age categories as 1-13
27-52	American Indian or Alaska Native: Same gender and age categories as 1-26
53-78	Asian: Same gender and age categories as 1-26
79-104	Native Hawaiian or Pacific Islander: Same gender and age categories as 1-26
105-130	White: Same gender and age categories as 1-26
131-156	Some Other Race: Same gender and age categories as 1-26
157-312	People not of Hispanic origin: Same race, gender, and age categories as 1-156

Note: Multiple race respondents were included in one of the six race groups for estimation purposes only, however the PUMS files include the full set of responses to the race item.

The ratio estimation procedure for people was conducted within a weighting area in four stages. Prior to performing the four stage adjustment, the following steps were taken:

1. Each sample person record was assigned an initial weight approximately equal to the inverse of the observed sampling rate for the weighting area.
2. Prior to iterative proportional fitting, the categories within each final weighting area described above were combined, if necessary, to increase the reliability of the ratio estimation procedure. Any group that did not meet pre-specified criteria for the unweighted sample count or for the ratio of the 100-percent to the initially weighted sample count was combined with another group according to a specified collapsing pattern. There was an additional criterion concerning the number of complete count people in each race/Hispanic origin category in the second estimation stage.

Ratio Adjustment

The initial weights underwent four stages of ratio adjustment applying the grouping procedures described above.

Stage I. 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.

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 people in each Stage II group.

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 people in each Stage III group.

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 people in each Stage IV group.

The four stages of ratio adjustment were repeated in the order given above until the predefined stopping criteria were met. The weights obtained from the final iteration of Stage IV were assigned to the sample person records. However, to provide whole numbers of persons and housing units for tabulated data, integer weights were assigned. For example, if the final weight of the people in a particular group was 7.25, then 1/4 of the sample people in this group were randomly assigned a weight of 8, while the remaining 3/4 received a weight of 7.

Housing Units

The ratio estimation procedure for housing units was essentially the same as that for people, except that vacant housing units were treated separately. The occupied housing unit ratio estimation procedure was done in three stages. The first stage for occupied housing units used 19 household type groups while the second stage used three sampling type groups. The third stage used 24 race Hispanic origin-tenure groups. The vacant housing unit ratio estimation procedure was done in a single stage with three groups. The stages for ratio estimation for housing units were as follows:

Occupied Housing Units

Stage I: Type of Household

Group	Family with own children under 18: Number of people in housing unit
1	2
2	3
3	4
4	5
5	6-7
6	8 or more
	Family without own children under 18:
7-12	2 through 8 or more
	All other housing units:
13	1
14-19	2 through 8 or more

Stage II: Sampling Type

Group	
1	1-in-2
2	1-in-4
3	1-in-6 or 1-in-8

Stage III: Race and Hispanic Origin of Householder/Tenure

Group	Owner: Hispanic origin:
1	Black or African American
2	American Indian or Alaska Native
3	Asian
4	Native Hawaiian or Pacific Islander
5	White
6	Some Other Race
7-12	Owner: Not of Hispanic origin: Same race categories as 1-6
13-24	Renter: Same Hispanic origin and race categories as 1-12

Vacant Housing Units

Group	
1	Vacant for rent
2	Vacant for sale
3	Other vacant

As was done for persons, both occupied and vacant housing unit records were assigned an initial weight, and the groupings within each final weighting area went through a similar collapsing procedure.

The weights produced by this estimation 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. Also, this estimation procedure produces estimates that are consistent with the complete count of persons and housing units at the county level and higher.

SELECTION OF THE PUBLIC USE MICRODATA SAMPLES

A stratified systematic selection procedure with equal probability was used to select each of the public use microdata samples. The sampling universe was defined as all occupied housing units including all occupants, vacant housing units, and group quarters people in the census sample. The sample units were stratified during the selection process. The stratification was intended to improve the reliability of estimates derived from the public use microdata samples by defining strata, within which there is a high degree of homogeneity among the census sample households with respect to characteristics of major interest.

The occupied housing unit stratification was performed using a matrix containing 34,080 cells made by combining 71 race groups, 5 Hispanic origin groups, 3 family types, 2 tenure groups, 4 groups based on maximum age of household members, and the 4 long form sampling rates. In the case of occupied housing units the primary sampling units selected by the systematic selection process are housing units and all person records are extracted after the housing units are chosen. Therefore, the race and Hispanic origin correspond to the householder. The maximum age variable, in contrast, can come from any household member. For group quarters people, the race, Hispanic origin, and age will be those of the individual group quarters person. Table A contains a representation of the occupied housing unit stratification matrix.

The vacant housing unit stratification was performed within a matrix consisting of 12 cells made by combining the four long form sampling rates with three vacancy statuses. Table B contains a representation of the vacant housing unit stratification matrix.

The group quarters stratification used a matrix of 2,840 cells made by combining 71 race groups, five Hispanic Origin groups, four group quarters person age groups, and two types of group quarters. Table C contains a representation of the group quarters person stratification matrix.

SUBSAMPLING THE PUMS FILES

The sample selection procedures were performed separately for each of the three subsampling universes: occupied housing units (including all people in them), vacant housing units, and group quarters persons, as follows. The number of 1-percent public use microdata samples for a given state was determined by the full census sample size for that state. For instance, if the full census sample for a state was 20 percent, then the census sample was divided into 20 subsamples of approximately equal size. The 1-percent public use microdata sample was designated at random from the 20 subsamples. From the remaining 19 subsamples, five 1-percent subsamples were designated at random and merged to produce the 5-percent public use microdata sample.

During the sample selection operation, consecutive two-digit subsample numbers from 00 to 99 were assigned to each sample case in the 5-percent and 1-percent samples to allow for the designation of various size subsamples and, as discussed in the preceding chapter, to allow for the calculation of standard errors. As an example, for a 1-percent public use microdata sample, the choice of records having subsample numbers with the same "units" digit (e.g., the two "units" digit includes subsample numbers (2,12,22,....,92) will provide a 1-in-1000 subsample.

Samples of any size between 1/20 and 1/10000 may be selected in a similar manner by using appropriate two-digit subsample numbers assigned to either of the microdata samples. Care must be exercised when selecting such samples. If only one "units" digit is required, the units digit should be randomly selected. If two "units" digits are required, the first should be randomly selected and the second should be either 5 more or 5 less than the first. Failure to use this procedure, e.g., selection of records with the same "tens" digit instead of records with the same "units" digit, would provide a 1-in-10 subsample but one that would be somewhat more clustered and as a result subject to larger sampling error.

SERVICE-BASED ENUMERATION

Service Based Enumeration was designed to account for people without a usual residence who use service facilities (i.e., shelters, soup kitchens and mobile food vans). Only people using the service facility on the interview day were enumerated. In addition, people enumerated in Targeted Non-Shelter Outdoor Locations (TNSOLS) and people without a usual residence that filed Be Counted Forms (BCF) augmented the enumeration. Note that only people enumerated in shelters and soup kitchens were eligible for selection in the initial census sample. **This component of the enumeration should not be interpreted as a complete count of the population without a usual residence.**

Table A: Census 2000 PUMS Stratification Matrix - Occupied Households

Sampling rate (1-in-2, 1-in-4, 1-in-6, 1-in-8)					
		White		.....	(71 detailed race groups)
		Hispanic origin (5 cells for the 5 categories)		.....	
Household type	Maximum age in HH	Owner	Renter	.....	(Tenure)
Family with own children under 18 .	0-59				
	60-74				
	75-89				
	90+				
Family without own children under 18 .	0-59				
	60-74				
	75-89				
	90+				
Other household (nonfamily)	0-59				
	60-74			.....	
	75-89			.....	
	90+			.....	

Table B: Census 2000 PUMS Stratification Matrix - Vacant Housing Units

Vacancy status	Sampling rate			
	1-in-2	1-in-4	1-in-6	1-in-8
Vacant, for sale.				
Vacant, for rent.				
Vacant, other.				

Table C: Census 2000 PUMS Stratification Matrix - Group Quarters People

GQ type	Institutional or military				Noninstitutional and Nonmilitary			
Race	White/other	Black		...	...	(71 Detailed race groups)		
Hispanic origin/ age	Hispanic origin (5 categories)	...	...	...	.....			
0-59								
60-74								
75-89								
90+.								

Chapter 6.
Data Dictionary

CONTENTS

Indexes Page

Alphabetical Index by Variable Name....6-1
Housing Unit Record....6-1
Person Record....6-5
Alphabetical Index by Description....6-9
Housing Unit Record....6-9
Person Record....6-12
Character Location Index....6-16
Housing Unit Record....6-16
Person Record....6-19

Record Layout
Housing Unit Record....6-23
Person Record....6-42

This chapter, in conjunction with several appendixes, defines the record layout and applicable codes for the Public Use Microdata Sample (PUMS) files. Six indexes (three housing unit and three person) are included in the following introductory pages for use in quickly locating data items in the PUMS files. Data fields in the indexes are specified beginning with an H for housing unit record or P for person record. For example, P9-10 is a two-character field beginning in character location 9 of the person record.

The record layout follows the indexes. The H designation appears only at the beginning of the housing unit record and the P designation appears only at the beginning of the person record. Character location in the record layout is expressed in three separate elements, SIZE, BEGIN, and END for each variable or data item.

INDEXES

Alphabetical Index by Variable Name (Housing Unit Record)

Variable name	Character location	Description
ACRES	H138	Acreage
ACRESA	H139	Acreage Allocation Flag
AGSALES	H140	Sales of Agricultural Products in 1999
AGSALESA	H141	Sales of Agricultural Products in 1999 Allocation Flag
AREATYP1	H42-43	Metropolitan Area: Super-PUMA Relationship to MA
BEDRMS	H124	Number of Bedrooms
BEDRMSA	H125	Number of Bedrooms Allocation Flag
BLDGSZ	H115-H116	Size of Building
BLDGSZA	H117	Size of Building Allocation Flag
BUSINES	H136	Commercial Business on Property
BUSINESA	H137	Commercial Business on Property Allocation Flag
CKITCH	H128	Complete Kitchen Facilities
CKITCHA	H129	Complete Kitchen Facilities Allocation Flag

Alphabetical Index by Variable Name (Housing Unit Record)—Con.

Variable name	Character location	Description
CONDFEE	H197-200	Condominium Fee (monthly)
CONDFEEA	H201	Condominium Fee (monthly) Allocation Flag
CPLUMB	H126	Complete Plumbing Facilities
CPLUMBA	H127	Complete Plumbing Facilities Allocation Flag
DIVISION	H13	Division Code
ELEC	H142-145	Cost of Electricity (annual)
ELECA	H146	Cost of Electricity (annual) Allocation Flag
EMPSTAT	H248	Family Type and Employment Status
FILLER	H14-18	Filler
FILLER	H24-27	Filler
FILLER	H267-314	Filler
FILLER	H28-31	Filler
FILLER	H40-41	Filler
FILLER	H44-57	Filler
FILLER	H58-71	Filler
FINC	H259-266	Family Total Income in 1999
FNF	H244	Farm/Nonfarm Recode
FUEL	H132	Heating Fuel
FUELA	H133	Heating Fuel Allocation Flag
GAS	H147-150	Cost of Gas (annual)
GASA	H151	Cost of Gas (annual) Allocation Flag
GRAPI	H241-243	Gross Rent as a Percentage of Household Income
GRENT	H237-240	Gross Rent
HAUG	H110	Augmentation Flag
HHL	H245	Household Language
HHT	H213	Household/Family Type
HINC	H251-258	Household Total Income in 1999
HSUB	H109	Substitution Flag
HWEIGHT	H102-105	Housing unit weight
INSAMT	H192-195	Property Insurance Amount (annual)
INSAMTA	H196	Property Insurance Amount (annual) Allocation Flag
INSINCL	H190	Property Insurance Status
INSINCLA	H191	Property Insurance Status Allocation Flag
LNDPUMA1	H86-99	Land Area of Super-PUMA
LNGI	H246	Linguistic Isolation
MEALS	H167	Meals Included in Rent
MEALSA	H168	Meals Included in Rent Allocation Flag
MHCOST	H207-211	Mobile Home Costs
MHCOSTA	H212	Mobile Home Costs Allocation Flag
MHLOAN	H205	Mobile Home Loan Status
MHLOANA	H206	Mobile Home Loan Status Allocation Flag
MORTG1	H169	Mortgage Status
MORTG1A	H170	Mortgage Status Allocation Flag
MORTG2	H177	Second Mortgage Status
MORTG2A	H178	Second Mortgage Status Allocation Flag
MRT1AMT	H171-175	Mortgage Payment (monthly amount)
MRT1AMTA	H176	Mortgage Payment (monthly amount) Allocation Flag
MRT2AMT	H179-183	Second Mortgage Payment (monthly amount)

Alphabetical Index by Variable Name (Housing Unit Record)—Con.

Variable name	Character location	Description
MRT2AMTA	H184	Second Mortgage Payment (monthly amount) Allocation Flag
MSACMSA1	H32-35	Metropolitan Area: MSA/CMSA for Super-PUMA
MSAPMSA1	H36-39	Metropolitan Area: MSA/PMSA for Super-PUMA
NOC	H220-221	Number of own children under 18 years in household
NPF	H218-219	Number of people in family
NRC	H222-223	Number of related children under 18 years in household
OIL	H157-160	Cost of Oil, Kerosene, or Wood (annual)
OILA	H161	Cost of Oil, Kerosene, or Wood (annual) Allocation Flag
P18	H216-217	Number of people under 18 years in household
P65	H214-215	Number of people 65 years and over in household
PAOC	H225	Presence and Age of Own Children under 18 years
PARC	H226	Presence and Age of Related Children under 18 years
PERSONS	H106-107	Number of person records following this housing record
PHONE	H130	Telephone Availability
PHONEA	H131	Telephone Availability Allocation Flag
PSF	H224	Presence of Subfamily in Household
PUMA1	H19-23	Super-Public Use Microdata Area Code (Super-PUMA)
RECTYPE	H1	Record Type
REGION	H12	Region Code
RENT	H162-165	Monthly Rent
RENTA	H166	Monthly Rent Allocation Flag
ROOMS	H122	Number of Rooms
ROOMSA	H123	Number of Rooms Allocation Flag
SAMPLE	H9	Sample Identifier
SERIALNO	H2-8	Housing/Group Quarters Unit Serial Number
SMOC	H228-232	Selected Monthly Owner Costs
SMOCAPI	H233-235	Selected Monthly Owner Costs as a Percentage of Household Income
SRNT	H236	Specified Rent Indicator
STATE	H10-11	State Code
SUBSAMPL	H100-101	Subsample Number
SVAL	H227	Specified Value Indicator
TAXAMT	H187-188	Property Tax Amount (annual)
TAXAMTA	H189	Property Tax Amount (annual) Allocation Flag
TAXINCL	H185	Property Tax Status
TAXINCLA	H186	Property Tax Status Allocation Flag
TENURE	H113	Home Ownership
TENUREA	H114	Home Ownership Allocation Flag
TOTPUMA1	H72-85	Total Area of Super-PUMA
UNITTYPE	H108	Type of unit
VACSTAT	H111	Vacancy Status

Alphabetical Index by Variable Name (Housing Unit Record)—Con.

Variable name	Character location	Description
VACSTATA	H112	Vacancy Status Allocation Flag
VALUE	H202-203	Property Value
VALUEA	H204	Property Value Allocation Flag
VEHICL	H134	Number of Vehicles Available
VEHICLA	H135	Number of Vehicles Available Allocation Flag
WATER	H152-155	Cost of Water and Sewer (annual)
WATERA	H156	Cost of Water and Sewer (annual) Allocation Flag
WIF	H247	Number of workers in family
WORKEXP	H249-250	Family Type and Work Experience of House-holder
YRBUILT	H118	Year Building Built
YRBUILTA	H119	Year Building Built Allocation Flag
YRMOVED	H120	Year Moved In
YRMOVEDA	H121	Year Moved In Allocation Flag

Alphabetical Index by Variable Name (Person Record)

Variable name	Character location	Description
ABGO	P127	Able to Go Out Disability
ABGOA	P128	Able to Go Out Disability Allocation Flag
ABSENT	P205	Absent from Work
ABWORK	P129	Employment Disability
ABWORKA	P130	Employment Disability Allocation Flag
AGE	P25-26	Age
AGEA	P27	Age Allocation Flag
AIAN	P34	American Indian and Alaska Native Recode
ANCA	P62	Ancestry Allocation Flag
ANCFRST1	P56-58	Ancestry Code 1 for 1% File
ANCR	P63	Ancestry Recode
ANCSCND1	P59-61	Ancestry Code 2 for 1% File
ASIAN	P35	Asian Recode
BACKWRK	P208	Back to Work
BLACK	P33	Black or African American Recode
CARPOOL	P194	Vehicle Occupancy
CARPOOLA	P195	Vehicle Occupancy Allocation Flag
CLWKR	P234	Class of Worker
CLWKRA	P235	Class of Worker Allocation Flag
CTZ	P76	Citizenship Status
CTZA	P77	Citizenship Status Allocation Flag
DDP	P12	Data-defined Person Flag
DISABLE	P131	Disability Recode
EARNS	P305-311	Person's Total Earnings in 1999
EDUC	P53-54	Educational Attainment
EDUCA	P55	Educational Attainment Allocation Flag
ENGABIL	P70	English Ability
ENGABILA	P71	English Ability Allocation Flag
ENROLL	P49	School Enrollment; Attended since February 1, 2000
ENROLLA	P50	School Enrollment; Attended since February 1, 2000 Allocation Flag
ESP	P156	Employment Status of Parent(s)
ESR	P154	Employment Status Recode
ESRA	P155	Employment Status Allocation Flag
FILLER	P103-106	Filler
FILLER	P111-114	Filler
FILLER	P161-165	Filler
FILLER	P171-172	Filler
FILLER	P175-178	Filler
FILLER	P183-186	Filler
FILLER	P89-93	Filler
FILLER	P99-100	Filler
GRADE	P51	School Enrollment: Grade Level Attending
GRADEA	P52	School Enrollment: Grade Level Attending Allocation Flag
GRANDC	P132	Presence of Grandchildren under 18 years
GRANDCA	P133	Presence of Grandchildren under 18 years Allocation Flag

Alphabetical Index by Variable Name (Person Record)—Con.

Variable name	Character location	Description
HISPAN	P28-29	Hispanic or Latino Origin
HISPANA	P30	Hispanic or Latino Origin Allocation Flag
HOURS	P241-242	Hours Per Week in 1999
HOURSA	P243	Hours Per Week in 1999 Allocation Flag
HOWLONG	P136	Length of Responsibility for Grandchildren
HOWLONGA	P137	Length of Responsibility for Grandchildren Allocation Flag
INCINT	P258-263	Interest Income in 1999
INCINTA	P264	Interest Income in 1999 Allocation Flag
INCOTH	P290-295	Other Income in 1999
INCOTHA	P296	Other Income in 1999 Allocation Flag
INCPA	P277-281	Public Assistance Income in 1999
INCPAA	P282	Public Assistance Income in 1999 Allocation Flag
INCRET	P283-288	Retirement Income in 1999
INCRETA	P289	Retirement Income in 1999 Allocation Flag
INCSE	P251-256	Self-Employment Income in 1999
INCSEA	P257	Self-Employment Income in 1999 Allocation Flag
INCSS	P265-269	Social Security Income in 1999
INCSSA	P270	Social Security Income in 1999 Allocation Flag
INCSSI	P271-275	Supplemental Security Income in 1999
INCSSIA	P276	Supplemental Security Income in 1999 Allocation Flag
INCTOT	P297-303	Person's Total Income in 1999
INCTOTA	P304	Person's Total Income in 1999 Allocation Flag
INCWS	P244-249	Wage/Salary Income in 1999
INCWSA	P250	Wage/Salary Income in 1999 Allocation Flag
INDCEN	P211-213	Industry (Census)
INDCENA	P214	Industry (Census) Allocation Flag
INDNAICS	P215-222	Industry (NAICS)
LANG1	P66-68	Language Spoken for 1% file
LANGA	P69	Language Spoken Allocation Flag
LASTWRK	P209	Year Last Worked
LASTWRKA	P210	Year Last Worked Allocation Flag
LAYOFF	P204	Layoff from Job
LOOKWRK	P207	Looking for Work
LVTIME	P196-198	Time Leaving for Work
LVTIMEA	P199	Time Leaving for Work Allocation Flag
MARSTAT	P44	Marital Status
MARSTATA	P45	Marital Status Allocation Flag
MENTAL	P123	Mental Disability
MENTALA	P124	Mental Disability Allocation Flag
MIGA	P88	Migration State or Foreign Country Code Allocation Flag
MIGAREA1	P101-102	Migration Super-PUMA Relationship to MA
MIGCMA1	P107-110	Migration MA: MSA/CMSA for Migration Super-PUMA
MIGPMA1	P115-118	Migration MA: MSA/PMSA for Migration Super-PUMA
MIGPUMA1	P94-98	Migration Super-PUMA

Alphabetical Index by Variable Name (Person Record)—Con.

Variable name	Character location	Description
MIGST1	P85-87	Migration State or Foreign Country Code for 1% file
MILTARY	P138	Military Service
MILTARYA	P139	Military Service Allocation Flag
MILYRS	P150	Years of Military Service
MILYRSA	P151	Years of Military Service Allocation Flag
MOB	P83	Residence 5 Years Ago
MOBA	P84	Residence 5 Years Ago Allocation Flag
MSP	P46	Married, Spouse Present Recode
NHPI	P36	Native Hawaiian and Other Pacific Islander Recode
NUMRACE	P31	Number of Major Race Groups Marked
OC	P20	Own Child Indicator
OCCCEN1	P223-225	Occupation (Census) for 1% File
OCCCENA	P226	Occupation (Census) Allocation Flag
OCCSOC1	P227-233	Occupation (SOC) for 1% File
OTHER	P37	Some Other Race Recode
PAOCF	P22	Presence and Age of Own Children, Females
PAUG	P11	Augmented Person Flag
PHYSCL	P121	Physical Disability
PHYSCLA	P122	Physical Disability Allocation Flag
PNUM	P9-10	Person Sequence Number
POB1	P72-74	Place of Birth for 1% file
POBA	P75	Place of Birth Allocation Flag
POVRTY	P312-314	Person's Poverty Status
POWAREA1	P173-174	Place of Work Super-PUMA Relationship to MA
POWCMA1	P179-182	Place of Work MA: MSA/CMSA for Place of Work Super-PUMA
POWPMA1	P187-190	Place of Work MA: MSA/PMSA for Place of Work Super-PUMA
POWPUMA1	P166-170	Place of Work Super-PUMA
POWST1	P157-159	Place of Work State or Foreign Country Code for 1% file
POWSTA	P160	Place of Work State or Foreign Country Code Allocation Flag
PWEIGHT	P13-16	Person Weight
RACE1	P38	Race Recode 1
RACE2	P39-40	Race Recode 2
RACE3	P41-42	Race Recode 3
RACEA	P43	Race Allocation Flag
RC	P21	Related Child Indicator
RECALL	P206	Return-to-Work Recall
RECTYPE	P1	Record Type
RELATE	P17-18	Relationship
RELATEA	P19	Relationship Allocation Flag
RSPNSBL	P134	Responsible for Grandchildren
RSPNSBLA	P135	Responsible for Grandchildren Allocation Flag
SENSRY	P119	Sensory Disability
SENSRYA	P120	Sensory Disability Allocation Flag
SERIALNO	P2-8	Housing /Group Quarters Unit Serial Number

Alphabetical Index by Variable Name (Person Record)—Con.

Variable name	Character location	Description
SEX	P23	Sex
SEXA	P24	Sex Allocation Flag
SFN	P47	Subfamily Number for this person
SFREL	P48	Subfamily Relationship
SLFCARE	P125	Self-Care Disability
SLFCAREA	P126	Self-Care Disability Allocation Flag
SPEAK	P64	Non-English Language
SPEAKA	P65	Non-English Language Allocation Flag
TRVMNS	P191-192	Means of Transportation to Work
TRVMNSA	P193	Means of Transportation to Work Allocation Flag
TRVTIME	P200-202	Travel Time to Work
TRVTIMEA	P203	Travel Time to Work Allocation Flag
VPS1	P140	Veteran's Period of Service 1: On active duty April 1995 or later
VPS2	P141	Veteran's Period of Service 2: On active duty August 1990 to March 1995 (including Persian Gulf War)
VPS3	P142	Veteran's Period of Service 3: On active duty September 1980 to July 1990
VPS4	P143	Veteran's Period of Service 4: On active duty May 1975 to August 1980
VPS5	P144	Veteran's Period of Service 5: On active duty during the Vietnam Era (August 1964 to April 1975)
VPS6	P145	Veteran's Period of Service 6: On active duty February 1955 to July 1964
VPS7	P146	Veteran's Period of Service 7: On active duty during the Korean War (June 1950 to January 1955)
VPS8	P147	Veteran's Period of Service 8: On active duty during World War II (September 1940 to July 1947)
VPS9	P148	Veteran's Period of Service 9: On active duty any other time
VPSA	P149	Veteran's Period of Service Allocation Flag
VPSR	P152-153	Veteran's Period of Service Recode
WEEKS	P238-239	Weeks Worked in 1999
WEEKSA	P240	Weeks Worked in 1999 Allocation Flag
WHITE	P32	White recode
WRKLYR	P236	Worked in 1999
WRKLYRA	P237	Worked in 1999 Allocation Flag
YR2US	P78-81	Year of Entry to United States
YR2USA	P82	Year of Entry to United States Allocation Flag

Description	Variable name	Character location
Acreage	ACRES	H138
Acreage Allocation Flag	ACRESA	H139
Augmentation Flag	HAUG	H110
Commercial Business on Property	BUSINES	H136
Commercial Business on Property Allocation Flag	BUSINESA	H137
Complete Kitchen Facilities	CKITCH	H128
Complete Kitchen Facilities Allocation Flag	CKITCHA	H129
Complete Plumbing Facilities	CPLUMB	H126
Complete Plumbing Facilities Allocation Flag	CPLUMBA	H127
Condominium Fee (monthly)	CONDFEE	H197-200
Condominium Fee (monthly) Allocation Flag	CONDFEEA	H201
Cost of Electricity (annual)	ELEC	H142-145
Cost of Electricity (annual) Allocation Flag	ELECA	H146
Cost of Gas (annual)	GAS	H147-150
Cost of Gas (annual) Allocation Flag	GASA	H151
Cost of Oil, Kerosene, or Wood (annual)	OIL	H157-160
Cost of Oil, Kerosene, or Wood (annual) Allocation Flag	OILA	H161
Cost of Water and Sewer (annual)	WATER	H152-155
Cost of Water and Sewer (annual) Allocation Flag	WATERA	H156
Division Code	DIVISION	H13
Family Type and Employment Status	EMPSTAT	H248
Family Total Income in 1999	FINC	H259-266
Family Type and Work Experience of Householder	WORKEXP	H249-250
Farm/Nonfarm Recode	FNF	H244
Filler	FILLER	H14-18
Filler	FILLER	H24-27
Filler	FILLER	H28-31
Filler	FILLER	H40-41
Filler	FILLER	H44-57
Filler	FILLER	H58-71
Filler	FILLER	H267-314
Gross Rent	GRENT	H237-240
Gross Rent as a Percentage of Household Income	GRAPI	H241-243
Heating Fuel	FUEL	H132
Heating Fuel Allocation Flag	FUELA	H133
Home Ownership	TENURE	H113
Home Ownership Allocation Flag	TENUREA	H114
Household Language	HHL	H245
Household Total Income in 1999	HINC	H251-258
Household/Family Type	HHT	H213
Housing/Group Quarters Unit Serial Number	SERIALNO	H2-8
Housing unit weight	HWEIGHT	H102-105
Land Area of Super-PUMA	LNDPUMA1	H86-99
Linguistic Isolation	LNGI	H246

Alphabetical Index by Description (Housing Unit Record)—Con.

Description	Variable name	Character location
Meals Included in Rent	MEALS	H167
Meals Included in Rent Allocation Flag	MEALSA	H168
Metropolitan Area: MSA/CMSA for Super-PUMA	MSACMSA1	H32-35
Metropolitan Area: MSA/PMSA for Super-PUMA	MSAPMSA1	H36-39
Metropolitan Area: Super-PUMA Relationship to MA	AREATYP1	H42-43
Mobile Home Costs	MHCOST	H207-211
Mobile Home Costs Allocation Flag	MHCOSTA	H212
Mobile Home Loan Status	MHLOAN	H205
Mobile Home Loan Status Allocation Flag	MHLOANA	H206
Monthly Rent	RENT	H162-165
Monthly Rent Allocation Flag	RENTA	H166
Mortgage Payment (monthly amount)	MRT1AMT	H171-175
Mortgage Payment (monthly amount) Allocation Flag	MRT1AMTA	H176
Mortgage Status	MORTG1	H169
Mortgage Status Allocation Flag	MORTG1A	H170
Number of Bedrooms	BEDRMS	H124
Number of Bedrooms Allocation Flag	BEDRMSA	H125
Number of own children under 18 years in household	NOC	H220-221
Number of people 65 years and over in household	P65	H214-215
Number of people in family	NPF	H218-219
Number of people under 18 years in household	P18	H216-217
Number of person records following this housing record	PERSONS	H106-107
Number of related children under 18 years in household	NRC	H222-223
Number of Rooms	ROOMS	H122
Number of Rooms Allocation Flag	ROOMSA	H123
Number of Vehicles Available	VEHICL	H134
Number of Vehicles Available Allocation Flag	VEHICLA	H135
Number of workers in family	WIF	H247
Presence and Age of Own Children under 18 years	PAOC	H225
Presence and Age of Related Children under 18 years	PARC	H226
Presence of Subfamily in Household	PSF	H224
Property Insurance Amount (annual)	INSAMT	H192-195
Property Insurance Amount (annual) Allocation Flag	INSAMTA	H196
Property Insurance Status	INSINCL	H190
Property Insurance Status Allocation Flag	INSINCLA	H191
Property Tax Amount (annual)	TAXAMT	H187-188
Property Tax Amount (annual) Allocation Flag	TAXAMTA	H189
Property Tax Status	TAXINCL	H185
Property Tax Status Allocation Flag	TAXINCLA	H186
Property Value	VALUE	H202-203
Property Value Allocation Flag	VALUEA	H204

Alphabetical Index by Description (Housing Unit Record)—Con.

Description	Variable name	Character location
Record Type	RECTYPE	H1
Region Code	REGION	H12
Sales of Agricultural Products in 1999	AGSALES	H140
Sales of Agricultural Products in 1999 Allocation Flag	AGSALESA	H141
Sample Identifier	SAMPLE	H9
Second Mortgage Payment (monthly amount)	MRT2AMT	H179-183
Second Mortgage Payment (monthly amount) Allocation Flag	MRT2AMTA	H184
Second Mortgage Status	MORTG2	H177
Second Mortgage Status Allocation Flag	MORTG2A	H178
Selected Monthly Owner Costs	SMOC	H228-232
Selected Monthly Owner Costs as a Percentage of Household Income	SMOCAPI	H233-235
Size of Building	BLDGSZ	H115-H116
Size of Building Allocation Flag	BLDGSZA	H117
Specified Rent Indicator	SRNT	H236
Specified Value Indicator	SVAL	H227
State Code	STATE	H10-11
Subsample number	SUBSAMPL	H100-101
Substitution Flag	HSUB	H109
Super-Public Use Microdata Area Code (Super-PUMA)	PUMA1	H19-23
Telephone Availability	PHONE	H130
Telephone Availability Allocation Flag	PHONEA	H131
Total Area of Super-PUMA	TOTPUMA1	H72-85
Type of unit	UNITTYPE	H108
Vacancy Status	VACSTAT	H111
Vacancy Status Allocation Flag	VACSTATA	H112
Year Building Built	YRBUILT	H118
Year Building Built Allocation Flag	YRBUILTA	H119
Year Moved In	YRMOVED	H120
Year Moved In Allocation Flag	YRMOVEDA	H121

Description	Variable name	Character location
Able to Go Out Disability	ABGO	P127
Able to Go Out Disability Allocation Flag	ABGOA	P128
Absent from Work	ABSENT	P205
Age	AGE	P25-26
Age Allocation Flag	AGEA	P27
American Indian and Alaska Native recode	AIAN	P34
Ancestry Allocation Flag	ANCA	P62
Ancestry Code 1 for 1% file	ANCFRST1	P56-58
Ancestry Code 2 for 1% file	ANCSCND1	P59-61
Ancestry Recode	ANCR	P63
Asian Recode	ASIAN	P35
Augmented Person Flag	PAUG	P11
Back to Work	BACKWRK	P208
Black or African American recode	BLACK	P33
Citizenship Status	CTZ	P76
Citizenship Status Allocation Flag	CTZA	P77
Class of Worker	CLWKR	P234
Class of Worker Allocation Flag	CLWKRA	P235
Data-defined Person Flag	DDP	P12
Disability Recode	DISABLE	P131
Educational Attainment	EDUC	P53-54
Educational Attainment Allocation Flag	EDUCA	P55
Employment Disability	ABWORK	P129
Employment Disability Allocation Flag	ABWORKA	P130
Employment Status Allocation Flag	ESRA	P155
Employment Status of Parent(s)	ESP	P156
Employment Status Recode	ESR	P154
English Ability	ENGABIL	P70
English Ability Allocation Flag	ENGABILA	P71
Filler	FILLER	P89-93
Filler	FILLER	P99-100
Filler	FILLER	P103-106
Filler	FILLER	P111-114
Filler	FILLER	P161-165
Filler	FILLER	P171-172
Filler	FILLER	P175-178
Filler	FILLER	P183-186
Hispanic or Latino Origin	HISPAN	P28-29
Hispanic or Latino Origin Allocation Flag	HISPANA	P30
Hours Per Week in 1999	HOURS	P241-242
Hours Per Week in 1999 Allocation Flag	HOURSA	P243
Housing /Group Quarters Unit Serial Number	SERIALNO	P2-8
Industry (Census)	INDCEN	P211-213
Industry (Census) Allocation Flag	INDCENA	P214
Industry (NAICS)	INDNAICS	P215-222
Interest Income in 1999	INCINT	P258-263
Interest Income in 1999 Allocation Flag	INCINTA	P264
Language Spoken Allocation Flag	LANGA	P69
Language Spoken for 1% file	LANG1	P66-68

Alphabetical Index by Description (Person Record)—Con.

Description	Variable name	Character location
Layoff from Job	LAYOFF	P204
Length of Responsibility for Grandchildren	HOWLONG	P136
Length of Responsibility for Grandchildren Allocation Flag	HOWLONGA	P137
Looking for Work	LOOKWRK	P207
Marital Status	MARSTAT	P44
Marital Status Allocation Flag	MARSTATA	P45
Married, Spouse Present Recode	MSP	P46
Means of Transportation to Work	TRVMNS	P191-192
Means of Transportation to Work Allocation Flag	TRVMNSA	P193
Mental Disability	MENTAL	P123
Mental Disability Allocation Flag	MENTALA	P124
Migration MA: MSA/CMSA for Migration Super-PUMA	MIGCMA1	P107-110
Migration MA: MSA/PMSA for Migration Super-PUMA	MIGPMA1	P115-118
Migration State or Foreign Country Code Allocation Flag	MIGA	P88
Migration State or Foreign Country Code for 1% file	MIGST1	P85-87
Migration Super-PUMA	MIGPUMA1	P94-98
Migration Super-PUMA Relationship to MA	MIGAREA1	P101-102
Military Service	MILTARY	P138
Military Service Allocation Flag	MILTARYA	P139
Native Hawaiian and Other Pacific Islander recode	NHPI	P36
Non-English Language	SPEAK	P64
Non-English Language Allocation Flag	SPEAKA	P65
Number of Major Race Groups Marked	NUMRACE	P31
Occupation (Census) Allocation Flag	OCCCENA	P226
Occupation (Census) for 1% file	OCCCEN1	P223-225
Occupation (SOC) for 1% file	OCCSOC1	P227-233
Other Income in 1999	INCOTH	P290-295
Other Income in 1999 Allocation Flag	INCOTHA	P296
Own Child Indicator	OC	P20
Person Sequence Number	PNUM	P9-10
Person Weight	PWEIGHT	P13-16
Person's Poverty Status	POVRTY	P312-314
Person's Total Earnings in 1999	EARNS	P305-311
Person's Total Income in 1999	INCTOT	P297-303
Person's Total Income in 1999 Allocation Flag	INCTOTA	P304
Physical Disability	PHYSCL	P121
Physical Disability Allocation Flag	PHYSCLA	P122
Place of Birth Allocation Flag	POBA	P75
Place of Birth for 1% file	POB1	P72-74
Place of Work MA: MSA/CMSA for Place of Work Super-PUMA	POWCMA1	P179-182
Place of Work MA: MSA/PMSA for Place of Work Super-PUMA	POWPMA1	P187-190

Alphabetical Index by Description (Person Record)—Con.

Description	Variable name	Character location
Place of Work State or Foreign Country Code Allocation Flag	POWSTA	P160
Place of Work State or Foreign Country Code for 1% file	POWST1	P157-159
Place of Work Super-PUMA	POWPUMA1	P166-170
Place of Work Super-PUMA Relationship to MA	POWAREA1	P173-174
Presence and Age of Own Children, Females	PAOCF	P22
Presence of Grandchildren under 18 years	GRANDC	P132
Presence of Grandchildren under 18 years Allocation Flag	GRANDCA	P133
Public Assistance Income in 1999	INCPA	P277-281
Public Assistance Income in 1999 Allocation Flag	INCPAA	P282
Race Allocation Flag	RACEA	P43
Race Recode 1	RACE1	P38
Race Recode 2	RACE2	P39-40
Race Recode 3	RACE3	P41-42
Record Type	RECTYPE	P1
Related Child Indicator	RC	P21
Relationship	RELATE	P17-18
Relationship Allocation Flag	RELATEA	P19
Residence 5 Years Ago	MOB	P83
Residence 5 Years Ago Allocation Flag	MOBA	P84
Responsible for Grandchildren	RSPNSBL	P134
Responsible for Grandchildren Allocation Flag	RSPNSBLA	P135
Retirement Income in 1999	INCRET	P283-288
Retirement Income in 1999 Allocation Flag	INCRETA	P289
Return-to-Work Recall	RECALL	P206
School Enrollment: Grade Level Attending	GRADE	P51
School Enrollment: Grade Level Attending Allocation Flag	GRADEA	P52
School Enrollment; Attended since February 1, 2000	ENROLL	P49
School Enrollment; Attended since February 1, 2000 Allocation Flag	ENROLLA	P50
Self-Care Disability	SLFCARE	P125
Self-Care Disability Allocation Flag	SLFCAREA	P126
Self-Employment Income in 1999	INCSE	P251-256
Self-Employment Income in 1999 Allocation Flag	INCSEA	P257
Sensory Disability	SENSRY	P119
Sensory Disability Allocation Flag	SENSRYA	P120
Sex	SEX	P23
Sex Allocation Flag	SEXA	P24
Social Security Income in 1999	INCSS	P265-269
Social Security Income in 1999 Allocation Flag	INCSSA	P270
Some other race recode	OTHER	P37
Subfamily Number for this person	SFN	P47
Subfamily Relationship	SFREL	P48
Supplemental Security Income in 1999	INCSSI	P271-275

Description	Variable name	Character location
Supplemental Security Income in 1999 Allocation Flag	INCSSIA	P276
Time Leaving for Work	LVTIME	P196-198
Time Leaving for Work Allocation Flag	LVTIMEA	P199
Travel Time to Work	TRVTIME	P200-202
Travel Time to Work Allocation Flag	TRVTIMEA	P203
Vehicle Occupancy	CARPOOL	P194
Vehicle Occupancy Allocation Flag	CARPOOLA	P195
Veteran's Period of Service 1: On active duty April 1995 or later	VPS1	P140
Veteran's Period of Service 2: On active duty August 1990 to March 1995 (including Persian Gulf War)	VPS2	P141
Veteran's Period of Service 3: On active duty September 1980 to July 1990	VPS3	P142
Veteran's Period of Service 4: On active duty May 1975 to August 1980	VPS4	P143
Veteran's Period of Service 5: On active duty during the Vietnam Era (August 1964 to April 1975)	VPS5	P144
Veteran's Period of Service 6: On active duty February 1955 to July 1964	VPS6	P145
Veteran's Period of Service 7: On active duty during the Korean War (June 1950 to January 1955)	VPS7	P146
Veteran's Period of Service 8: On active duty during World War II (September 1940 to July 1947)	VPS8	P147
Veteran's Period of Service 9: On active duty any other time	VPS9	P148
Veteran's Period of Service Allocation Flag	VPSA	P149
Veteran's Period of Service Recode	VPSR	P152-153
Wage/Salary Income in 1999	INCWS	P244-249
Wage/Salary Income in 1999 Allocation Flag	INCWSA	P250
Weeks Worked in 1999	WEEKS	P238-239
Weeks Worked in 1999 Allocation Flag	WEEKSA	P240
White recode	WHITE	P32
Worked in 1999	WRKLYR	P236
Worked in 1999 Allocation Flag	WRKLYRA	P237
Year Last Worked	LASTWRK	P209
Year Last Worked Allocation Flag	LASTWRKA	P210
Year of Entry to United States	YR2US	P78-81
Year of Entry to United States Allocation Flag	YR2USA	P82
Years of Military Service	MILYRS	P150
Years of Military Service Allocation Flag	MILYRSA	P151

Character Location Index (Housing Unit Record)

Character location	Variable name	Description
H1	RECTYPE	Record Type
H2-8	SERIALNO	Housing/Group Quarters Unit Serial Number
H9	SAMPLE	Sample Identifier
H10-11	STATE	State Code
H12	REGION	Region Code
H13	DIVISION	Division Code
H14-18	FILLER	Filler
H19-23	PUMA1	Super-Public Use Microdata Area Code (Super-PUMA)
H24-27	FILLER	Filler
H28-31	FILLER	Filler
H32-35	MSACMSA1	Metropolitan Area: MSA/CMSA for Super-PUMA
H36-39	MSAPMSA1	Metropolitan Area: MSA/PMSA for Super-PUMA
H40-41	FILLER	Filler
H42-43	AREATYP1	Metropolitan Area: Super-PUMA Relationship to MA
H44-57	FILLER	Filler
H58-71	FILLER	Filler
H72-85	TOTPUMA1	Total Area of Super-PUMA
H86-99	LNDPUMA1	Land Area of Super-PUMA
H100-101	SUBSAMPL	Subsample number
H102-105	HWEIGHT	Housing unit weight
H106-107	PERSONS	Number of person records following this housing record
H108	UNITTYPE	Type of unit
H109	HSUB	Substitution Flag
H110	HAUG	Augmentation Flag
H111	VACSTAT	Vacancy Status
H112	VACSTATA	Vacancy Status Allocation Flag
H113	TENURE	Home Ownership
H114	TENUREA	Home Ownership Allocation Flag
H115-H116	BLDGSZ	Size of Building
H117	BLDGSZA	Size of Building Allocation Flag
H118	YRBUILT	Year Building Built
H119	YRBUILTA	Year Building Built Allocation Flag
H120	YRMOVED	Year Moved In
H121	YRMOVEDA	Year Moved In Allocation Flag
H122	ROOMS	Number of Rooms
H123	ROOMSA	Number of Rooms Allocation Flag
H124	BEDRMS	Number of Bedrooms
H125	BEDRMSA	Number of Bedrooms Allocation Flag
H126	CPLUMB	Complete Plumbing Facilities
H127	CPLUMBA	Complete Plumbing Facilities Allocation Flag
H128	CKITCH	Complete Kitchen Facilities
H129	CKITCHA	Complete Kitchen Facilities Allocation Flag
H130	PHONE	Telephone Availability
H131	PHONEA	Telephone Availability Allocation Flag
H132	FUEL	Heating Fuel
H133	FUELA	Heating Fuel Allocation Flag
H134	VEHICL	Number of Vehicles Available
H135	VEHICLA	Number of Vehicles Available Allocation Flag
H136	BUSINES	Commercial Business on Property

Character Location Index (Housing Unit Record)—Con.

Character location	Variable name	Description
H137	BUSINESA	Commercial Business on Property Allocation Flag
H138	ACRES	Acreage
H139	ACRESA	Acreage Allocation Flag
H140	AGSALES	Sales of Agricultural Products in 1999
H141	AGSALESA	Sales of Agricultural Products in 1999 Allocation Flag
H142-145	ELEC	Cost of Electricity (annual)
H146	ELECA	Cost of Electricity (annual) Allocation Flag
H147-150	GAS	Cost of Gas (annual)
H151	GASA	Cost of Gas (annual) Allocation Flag
H152-155	WATER	Cost of Water and Sewer (annual)
H156	WATERA	Cost of Water and Sewer (annual) Allocation Flag
H157-160	OIL	Cost of Oil, Kerosene, or Wood (annual)
H161	OILA	Cost of Oil, Kerosene, or Wood (annual) Allocation Flag
H162-165	RENT	Monthly Rent
H166	RENTA	Monthly Rent Allocation Flag
H167	MEALS	Meals Included in Rent
H168	MEALSA	Meals Included in Rent Allocation Flag
H169	MORTG1	Mortgage Status
H170	MORTG1A	Mortgage Status Allocation Flag
H171-175	MRT1AMT	Mortgage Payment (monthly amount)
H176	MRT1AMTA	Mortgage Payment (monthly amount) Allocation Flag
H177	MORTG2	Second Mortgage Status
H178	MORTG2A	Second Mortgage Status Allocation Flag
H179-183	MRT2AMT	Second Mortgage Payment (monthly amount)
H184	MRT2AMTA	Second Mortgage Payment (monthly amount) Allocation Flag
H185	TAXINCL	Property Tax Status
H186	TAXINCLA	Property Tax Status Allocation Flag
H187-188	TAXAMT	Property Tax Amount (annual)
H189	TAXAMTA	Property Tax Amount (annual) Allocation Flag
H190	INSINCL	Property Insurance Status
H191	INSINCLA	Property Insurance Status Allocation Flag
H192-195	INSAMT	Property Insurance Amount (annual)
H196	INSAMTA	Property Insurance Amount (annual) Allocation Flag
H197-200	CONDFEE	Condominium Fee (monthly)
H201	CONDFEEA	Condominium Fee (monthly) Allocation Flag
H202-203	VALUE	Property Value
H204	VALUEA	Property Value Allocation Flag
H205	MHLOAN	Mobile Home Loan Status
H206	MHLOANA	Mobile Home Loan Status Allocation Flag
H207-211	MHCOST	Mobile Home Costs
H212	MHCOSTA	Mobile Home Costs Allocation Flag
H213	HHT	Household/Family Type
H214-215	P65	Number of people 65 years and over in household
H216-217	P18	Number of people under 18 years in household
H218-219	NPF	Number of people in family
H220-221	NOC	Number of own children under 18 years in household
H222-223	NRC	Number of related children under 18 years in household
H224	PSF	Presence of Subfamily in Household

Character Location Index (Housing Unit Record)—Con.

Character location	Variable name	Description
H225	PAOC	Presence and Age of Own Children under 18 years
H226	PARC	Presence and Age of Related Children under 18 years
H227	SVAL	Specified Value Indicator
H228-232	SMOC	Selected Monthly Owner Costs
H233-235	SMOCAPI	Selected Monthly Owner Costs as a Percentage of Household Income
H236	SRNT	Specified Rent Indicator
H237-240	GRENT	Gross Rent
H241-243	GRAPI	Gross Rent as a Percentage of Household Income
H244	FNF	Farm/Nonfarm Recode
H245	HHL	Household Language
H246	LNGI	Linguistic Isolation
H247	WIF	Number of workers in family
H248	EMPSTAT	Family Type and Employment Status
H249-250	WORKEXP	Family Type and Work Experience of Householder
H251-258	HINC	Household Total Income in 1999
H259-266	FINC	Family Total Income in 1999
H267-314	FILLER	Filler

Character Location Index (Person Record)

Character location	Variable name	Description
P1	RECTYPE	Record Type
P2-8	SERIALNO	Housing /Group Quarters Unit Serial Number
P9-10	PNUM	Person Sequence Number
P11	PAUG	Augmented Person Flag
P12	DDP	Data-defined Person Flag
P13-16	PWEIGHT	Person Weight
P17-18	RELATE	Relationship
P19	RELATEA	Relationship Allocation Flag
P20	OC	Own Child Indicator
P21	RC	Related Child Indicator
P22	PAOCF	Presence and Age of Own Children, Females
P23	SEX	Sex
P24	SEXA	Sex Allocation Flag
P25-26	AGE	Age
P27	AGEA	Age Allocation Flag
P28-29	HISPAN	Hispanic or Latino Origin
P30	HISPANA	Hispanic or Latino Origin Allocation Flag
P31	NUMRACE	Number of Major Race Groups Marked
P32	WHITE	White recode
P33	BLACK	Black or African American recode
P34	AIAN	American Indian and Alaska Native recode
P35	ASIAN	Asian recode
P36	NHPI	Native Hawaiian and Other Pacific Islander recode
P37	OTHER	Some other race recode
P38	RACE1	Race Recode 1
P39-40	RACE2	Race Recode 2
P41-42	RACE3	Race Recode 3
P43	RACEA	Race Allocation Flag
P44	MARSTAT	Marital Status
P45	MARSTATA	Marital Status Allocation Flag
P46	MSP	Married, Spouse Present Recode
P47	SFN	Subfamily Number for this person
P48	SFREL	Subfamily Relationship
P49	ENROLL	School Enrollment; Attended since February 1, 2000
P50	ENROLLA	School Enrollment; Attended since February 1, 2000 Allocation Flag
P51	GRADE	School Enrollment: Grade Level Attending
P52	GRADEA	School Enrollment: Grade Level Attending Allocation Flag
P53-54	EDUC	Educational Attainment
P55	EDUCA	Educational Attainment Allocation Flag
P56-58	ANCFRST1	Ancestry Code 1 for 1% file
P59-61	ANCSCND1	Ancestry Code 2 for 1% file
P62	ANCA	Ancestry Allocation Flag
P63	ANCR	Ancestry Recode
P64	SPEAK	Non-English Language
P65	SPEAKA	Non-English Language Allocation Flag
P66-68	LANG1	Language Spoken for 1% file
P69	LANGA	Language Spoken Allocation Flag
P70	ENGABIL	English Ability

Character Location Index (Person Record)—Con.

Character location	Variable name	Description
P71	ENGABILA	English Ability Allocation Flag
P72-74	POB1	Place of Birth for 1% file
P75	POBA	Place of Birth Allocation Flag
P76	CTZ	Citizenship Status
P77	CTZA	Citizenship Status Allocation Flag
P78-81	YR2US	Year of Entry to United States
P82	YR2USA	Year of Entry to United States Allocation Flag
P83	MOB	Residence 5 Years Ago
P84	MOBA	Residence 5 Years Ago Allocation Flag
P85-87	MIGST1	Migration State or Foreign Country Code for 1% file
P88	MIGA	Migration State or Foreign Country Code Allocation Flag
P89-93	FILLER	Filler
P94-98	MIGPUMA1	Migration Super-PUMA
P99-100	FILLER	Filler
P101-102	MIGAREA1	Migration Super-PUMA Relationship to MA
P103-106	FILLER	Filler
P107-110	MIGCMA1	Migration MA: MSA/CMSA for Migration Super-PUMA
P111-114	FILLER	Filler
P115-118	MIGPMA1	Migration MA: MSA/PMSA for Migration Super-PUMA
P119	SENSRY	Sensory Disability
P120	SENSRYA	Sensory Disability Allocation Flag
P121	PHYSCL	Physical Disability
P122	PHYSCLA	Physical Disability Allocation Flag
P123	MENTAL	Mental Disability
P124	MENTALA	Mental Disability Allocation Flag
P125	SLFCARE	Self-Care Disability
P126	SLFCAREA	Self-Care Disability Allocation Flag
P127	ABGO	Able to Go Out Disability
P128	ABGOA	Able to Go Out Disability Allocation Flag
P129	ABWORK	Employment Disability
P130	ABWORKA	Employment Disability Allocation Flag
P131	DISABLE	Disability Recode
P132	GRANDC	Presence of Grandchildren under 18 years
P133	GRANDCA	Presence of Grandchildren under 18 years Allocation Flag
P134	RSPNSBL	Responsible for Grandchildren
P135	RSPNSBLA	Responsible for Grandchildren Allocation Flag
P136	HOWLONG	Length of Responsibility for Grandchildren
P137	HOWLONGA	Length of Responsibility For Grandchildren Allocation Flag
P138	MILTARY	Military Service
P139	MILTARYA	Military Service Allocation Flag
P140	VPS1	Veteran's Period of Service 1: On active duty April 1995 or later
P141	VPS2	Veteran's Period of Service 2: On active duty August 1990 to March 1995 (including Persian Gulf War)
P142	VPS3	Veteran's Period of Service 3: On active duty September 1980 to July 1990
P143	VPS4	Veteran's Period of Service 4: On active duty May 1975 to August 1980
P144	VPS5	Veteran's Period of Service 5: On active duty during the Vietnam Era (August 1964 to April 1975)

Character Location Index (Person Record)—Con.

Character location	Variable name	Description
P145	VPS6	Veteran's Period of Service 6: On active duty February 1955 to July 1964
P146	VPS7	Veteran's Period of Service 7: On active duty during the Korean War (June 1950 to January 1955)
P147	VPS8	Veteran's Period of Service 8: On active duty during World War II (September 1940 to July 1947)
P148	VPS9	Veteran's Period of Service 9: On active duty any other time
P149	VPSA	Veteran's Period of Service Allocation Flag
P150	MILYRS	Years of Military Service
P151	MILYRSA	Years of Military Service Allocation Flag
P152-153	VPSR	Veteran's Period of Service Recode
P154	ESR	Employment Status Recode
P155	ESRA	Employment Status Allocation Flag
P156	ESP	Employment Status of Parent(s)
P157-159	POWST1	Place of Work State or Foreign Country Code for 1% file
P160	POWSTA	Place of Work State or Foreign Country Code Allocation Flag
P161-165	FILLER	Filler
P166-170	POWPUMA1	Place of Work Super-PUMA
P171-172	FILLER	Filler
P173-174	POWAREA1	Place of Work Super-PUMA Relationship to MA
P175-178	FILLER	Filler
P179-182	POWCMA1	Place of Work MA: MSA/CMSA for Place of Work Super-PUMA
P183-186	FILLER	Filler
P187-190	POWPMA1	Place of Work MA: MSA/PMSA for Place of Work Super-PUMA
P191-192	TRVMNS	Means of Transportation to Work
P193	TRVMNSA	Means of Transportation to Work Allocation Flag
P194	CARPOOL	Vehicle Occupancy
P195	CARPOOLA	Vehicle Occupancy Allocation Flag
P196-198	LVTIME	Time Leaving for Work
P199	LVTIMEA	Time Leaving for Work Allocation Flag
P200-202	TRVTIME	Travel Time to Work
P203	TRVTIMEA	Travel Time to Work Allocation Flag
P204	LAYOFF	Layoff from Job
P205	ABSENT	Absent from Work
P206	RECALL	Return-to-Work Recall
P207	LOOKWRK	Looking for Work
P208	BACKWRK	Back to Work
P209	LASTWRK	Year Last Worked
P210	LASTWRKA	Year Last Worked Allocation Flag
P211-213	INDCEN	Industry (Census)
P214	INDCENA	Industry (Census) Allocation Flag
P215-222	INDNAICS	Industry (NAICS)
P223-225	OCCCEN1	Occupation (Census) for 1% file
P226	OCCCENA	Occupation (Census) Allocation Flag
P227-233	OCCSOC1	Occupation (SOC) for 1% file
P234	CLWKR	Class of Worker

Character location	Variable name	Description
P235	CLWKRA	Class of Worker Allocation Flag
P236	WRKLYR	Worked in 1999
P237	WRKLYRA	Worked in 1999 Allocation Flag
P238-239	WEEKS	Weeks Worked in 1999
P240	WEEKSA	Weeks Worked in 1999 Allocation Flag
P241-242	HOURS	Hours Per Week in 1999
P243	HOURSA	Hours Per Week in 1999 Allocation Flag
P244-249	INCWS	Wage/Salary Income in 1999
P250	INCWSA	Wage/Salary Income in 1999 Allocation Flag
P251-256	INCSE	Self-Employment Income in 1999
P257	INCSEA	Self-Employment Income in 1999 Allocation Flag
P258-263	INCINT	Interest Income in 1999
P264	INCINTA	Interest Income in 1999 Allocation Flag
P265-269	INCSS	Social Security Income in 1999
P270	INCSSA	Social Security Income in 1999 Allocation Flag
P271-275	INCSSI	Supplemental Security Income in 1999
P276	INCSSIA	Supplemental Security Income in 1999 Allocation Flag
P277-281	INCPA	Public Assistance Income in 1999
P282	INCPAA	Public Assistance Income in 1999 Allocation Flag
P283-288	INCRET	Retirement Income in 1999
P289	INCRETA	Retirement Income in 1999 Allocation Flag
P290-295	INCOTH	Other Income in 1999
P296	INCOTHA	Other Income in 1999 Allocation Flag
P297-303	INCTOT	Person's Total Income in 1999
P304	INCTOTA	Person's Total Income in 1999 Allocation Flag
P305-311	EARNS	Person's Total Earnings in 1999
P312-314	POVRTY	Person's Poverty Status

RECORD LAYOUT

The files for the Public Use Microdata Sample (PUMS) are provided as one file for each state. It is comprised of the housing unit record and the person record. The data fields in each record are 314 characters in length.

The first character position of each line in this data dictionary determines its type as shown below:

A "D" in the first position represents data item description. This line provides the variable name, the size of the field, the beginning position, and the ending position. (The variable name on this line is limited to 8 characters.)

A "T" in the first position provides an English description of the variable name.

An "R" in the first position indicates that the value is a range. The upper and lower values of the range are separated with ".."

The value description line has a "V" in the first position and a "." in position 24. This line provides the value code to the left of the "." and the value description to the right of the "." The description text may be continued for as many lines as are needed.

The layout is presented below.

HOUSING UNIT RECORD

DATA	SIZE	BEGIN	END
D RECTYPE	1	1	1
T Record Type			
V	H	. Housing or Group Quarters Unit	
D SERIALNO	7	2	8
T Housing/Group Quarters (GQ) Unit Serial Number			
SERIALNO is common for each unit and all persons within the unit.			
R	0000001..9999999	. Unique identifier assigned within state	
D SAMPLE	1	9	9
T Sample Identifier			
V	2	. 1% sample	
D STATE	2	10	11
T State Code			
R	01..56	. FIPS State Code (see Appendix G)	
V	72	. Puerto Rico	
D REGION	1	12	12
T Region Code			
V	0	. Region not identified (Puerto Rico)	
V	1	. Northeast	
V	2	. Midwest	
V	3	. South	
V	4	. West	
D DIVISION	1	13	13
T Division Code			
V	0	. Division not identified (Puerto Rico)	
V	1	. New England	
V	2	. Middle Atlantic	

V 3 . East North Central
V 4 . West North Central
V 5 . South Atlantic
V 6 . East South Central
V 7 . West South Central
V 8 . Mountain
V 9 . Pacific

D FILLER 5 14 18

D PUMA1 5 19 23
T Super-Public Use Microdata Area Code (Super-PUMA)
Desginates area of 400,000 or more population.
R 01100..72800 .

D FILLER 4 24 27

D FILLER 4 28 31

D MSACMSA1 4 32 35
T Metropolitan Area: MSA/CMSA for Super-PUMA
R 0040..9360 . FIPS MSA/CMSA Code
V 9997 . Mixed MSA/CMSA and nonmetropolitan territory
V 9998 . 2 or more partial and/or entire MSAs/CMSAs
V 9999 . Not in metropolitan area

D MSAPMSA1 4 36 39
T Metropolitan Area: MSA/PMSA for Super-PUMA
R 0040..9360 . FIPS MSA/PMSA Code
V 9997 . Mixed MSA/PMSA and nonmetropolitan territory
V 9998 . 2 or more partial and/or entire MSAs/PMSAs
V 9999 . Not in metropolitan area

D FILLER 2 40 41

D AREATYP1 2 42 43
T Metropolitan Area: Super-PUMA Relationship to MA (see page 3-2)
V 11 . Contains only metropolitan territory inside central city (MSA part of fully-identified MSA)
V 12 . Contains only metropolitan territory outside central city (MSA part of fully-identified MSA)
V 13 . Contains only metropolitan territory both inside and outside central city (MSA part of fully-identified MSA)
V 14 . Contains an entire MSA (and no other territory)
V 21 . Contains only metropolitan territory inside central city (MSA part of partially-identified MSA)

V		22	. Contains only metropolitan territory outside central city (MSA part of partially-identified MSA)
V		23	. Contains only metropolitan territory both inside and outside central city (MSA part of partially-identified MSA)
V		31	. Contains only metropolitan territory inside central city (PMSA part of fully-identified PMSA and fully-identified CMSA)
V		32	. Contains only metropolitan territory outside central city (PMSA part of fully-identified PMSA and fully-identified CMSA)
V		33	. Contains only metropolitan territory both inside and outside central city (PMSA part of fully-identified PMSA and fully- identified CMSA)
V		34	. Contains an entire PMSA (and no other territory) (PMSA belongs to a fully-identified CMSA)
V		41	. Contains only metropolitan territory inside central city (PMSA part of fully-identified PMSA and partially-identified CMSA)
V		42	. Contains only metropolitan territory outside central city (PMSA part of fully-identified PMSA and partially-identified CMSA)
V		43	. Contains only metropolitan territory both inside and outside central city (PMSA part of fully-identified PMSA and partially-identified CMSA)
V		44	. Contains an entire PMSA (and no other territory) (PMSA belongs to a partially-identified CMSA)
V		51	. Contains only metropolitan territory inside central city (PMSA part of partially-identified PMSA and partially- identified CMSA)
V		52	. Contains only metropolitan territory outside central city (PMSA part of partially-identified PMSA and partially- identified CMSA)
V		53	. Contains only metropolitan territory both inside and outside central city (PMSA part of partially-identified PMSA and partially-identified CMSA)
V		70	. Contains both metropolitan and nonmetropolitan territory
V		80	. Contains only metropolitan territory in two or more partial and/or entire MSAs/PMSAs/CMSAs
V		90	. Contains only nonmetropolitan territory
D FILLER	14	44	57
D FILLER	14	58	71
D TOTPUMA1	14	72	85
T Total Area of Super-PUMA			
R	0..99999999999999	. Square meters	

HOUSING UNIT RECORD—Con.

D LNDPUMA1 14 86 99
T Land Area of Super-PUMA
R 0..99999999999999 . Square meters

D SUBSAMPL 2 100 101
T Subsample number
Use to pull extracts—1/100
R 00..99 .

D HWEIGHT 4 102 105
T Housing unit weight
R 0000..1975 .

D PERSONS 2 106 107
T Number of person records following this housing record
V 00 . Vacant unit
V 01 . Householder living alone or any person in group quarters
R 02..97 . Number of persons in household

D UNITTYPE 1 108 108
T Type of unit
V 0 . Housing unit
V 1 . Institutional group quarters
V 2 . Noninstitutional group quarters

D HSUB 1 109 109
T Substitution Flag
V 0 . Not substituted or GQ
V 1 . Substituted

D HAUG 1 110 110
T Augmentation Flag
V 0 . Not augmented or GQ
V 1 . Augmented

D VACSTAT 1 111 111
T Vacancy Status
V 0 . Not in universe (occupied or GQ)
V 1 . For rent
V 2 . For sale only
V 3 . Rented or sold, not occupied
V 4 . For seasonal, recreational or occasional use
V 5 . For migrant workers
V 6 . Other vacant

D VACSTATA 1 112 112
T Vacancy Status Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D TENURE 1 113 113

T Home Ownership

V	0	. Not in universe (vacant or GQ)
V	1	. Owned by you or someone in this household with a mortgage or loan
V	2	. Owned by you or someone in this household free and clear (without a mortgage or loan)
V	3	. Rented for cash rent
V	4	. Occupied without payment of cash rent

D TENUREA 1 114 114

T Home Ownership Allocation Flag

V	0	. Not allocated or GQ
V	1	. Allocated

D BLDGSZ 2 115 116

T Size of Building

V	blank	. Not in universe (GQ)
V	01	. A mobile home
V	02	. A one-family house detached from any other house
V	03	. A one-family house attached to one or more houses
V	04	. A building with 2 apartments
V	05	. A building with 3 or 4 apartments
V	06	. A building with 5 to 9 apartments
V	07	. A building with 10 to 19 apartments
V	08	. A building with 20 to 49 apartments
V	09	. A building with 50 or more apartments
V	10	. Boat, RV, van, etc.

D BLDGSZA 1 117 117

T Size of Building Allocation Flag

V	0	. Not allocated or GQ
V	1	. Allocated

D YRBUILT 1 118 118

T Year Building Built

V	blank	. Not in universe (GQ)
V	1	. 1999 to 2000
V	2	. 1995 to 1998
V	3	. 1990 to 1994
V	4	. 1980 to 1989
V	5	. 1970 to 1979
V	6	. 1960 to 1969
V	7	. 1950 to 1959
V	8	. 1940 to 1949
V	9	. 1939 or earlier

D YRBUILTA	1		119	119
T Year Building Built Allocation Flag				
V		0	. Not allocated or GQ	
V		1	. Allocated	
D YRMOVED	1		120	120
T Year Moved In				
V		blank	. Not in universe (vacant or GQ)	
V		1	. 1999 or 2000	
V		2	. 1995 to 1998	
V		3	. 1990 to 1994	
V		4	. 1980 to 1989	
V		5	. 1970 to 1979	
V		6	. 1969 or earlier	
D YRMOVEDA	1		121	121
T Year Moved In Allocation Flag				
V		0	. Not allocated or GQ	
V		1	. Allocated	
D ROOMS	1		122	122
T Number of Rooms				
V		blank	. Not in universe (GQ)	
R		1..8	. 1 to 8 rooms	
V		9	. 9 or more rooms	
D ROOMSA	1		123	123
T Number of Rooms Allocation Flag				
V		0	. Not allocated or GQ	
V		1	. Allocated	
D BEDRMS	1		124	124
T Number of Bedrooms				
V		blank	. Not in universe (GQ)	
V		0	. No bedrooms	
R		1..4	. 1 to 4 bedrooms	
V		5	. 5 or more bedrooms	
D BEDRMSA	1		125	125
T Number of Bedrooms Allocation Flag				
V		0	. Not allocated or GQ	
V		1	. Allocated	
D CPLUMB	1		126	126
T Complete Plumbing Facilities				
V		blank	. Not in universe (GQ)	
V		1	. Yes, have all three facilities	
V		2	. No	

D CPLUMBA 1 127 127
T Complete Plumbing Facilities Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D CKITCH 1 128 128
T Complete Kitchen Facilities
V blank . Not in universe (GQ)
V 1 . Yes, have all three facilities
V 2 . No

D CKITCHA 1 129 129
T Complete Kitchen Facilities Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D PHONE 1 130 130
T Telephone Availability
V blank . Not in universe (vacant or GQ)
V 1 . Yes
V 2 . No

D PHONEA 1 131 131
T Telephone Availability Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D FUEL 1 132 132
T Heating Fuel
V blank . Not in universe (vacant or GQ)
V 1 . Gas: from underground pipes serving neighborhood
V 2 . Gas: bottled, tank, or LP
V 3 . Electricity
V 4 . Fuel oil, kerosene, etc.
V 5 . Coal or coke
V 6 . Wood
V 7 . Solar energy
V 8 . Other fuel
V 9 . No fuel used

D FUELA 1 133 133
T Heating Fuel Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D VEHICL 1 134 134
T Number of Vehicles Available
V blank . Not in universe (vacant or GQ)
V 0 . No vehicles
R 1..5 . 1 to 5 vehicles
V 6 . 6 or more vehicles

D VEHICLA 1 135 135
T Number of Vehicles Available Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D BUSINES 1 136 136
T Commercial Business on Property
V blank . Not in universe (vacant or GQ; occupied and BLDGSZ>3)
V 1 . Yes
V 2 . No

D BUSINESA 1 137 137
T Commercial Business on Property Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D ACRES 1 138 138
T Acreage
V blank . Not in universe (vacant or GQ; occupied and BLDGSZ>3)
V 1 . Less than 1 acre
V 2 . 1.0 to 9.9 acres
V 3 . 10 acres or more

D ACRESA 1 139 139
T Acreage Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D AGSALES 1 140 140
T Sales of Agricultural Products in 1999
V blank . Not in universe (vacant or GQ; occupied and ACRES=1 or BDLGSZ>3)
V 0 . None
V 1 . $1 to $999
V 2 . $1,000 to $2,499
V 3 . $2,500 to $4,999
V 4 . $5,000 to $9,999
V 5 . $10,000 or more

D AGSALESA 1 141 141
T Sales of Agricultural Products in 1999 Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D ELEC	4		142	145
T Cost of Electricity (annual)				
V		blank	.	Not in universe (vacant or GQ)
V		0000	.	Included in rent or condominium fee
V		0001	.	No charge or not used
V		0002	.	$1 or $2
R		0003..4799	.	$3 to $4,799
V		4800	.	Topcode
V		4800+	.	State mean of topcoded values
D ELECA	1		146	146
T Cost of Electricity (annual) Allocation Flag				
V		0	.	Not allocated or GQ
V		1	.	Allocated
D GAS	4		147	150
T Cost of Gas (annual)				
V		blank	.	Not in universe (vacant or GQ)
V		0000	.	Included in rent or condominium fee
V		0001	.	No charge or not used
V		0002	.	$1 or $2
R		0003..2999	.	$3 to $2,999
V		3000	.	Topcode
V		3000+	.	State mean of topcoded values
D GASA	1		151	151
T Cost of Gas (annual) Allocation Flag				
V		0	.	Not allocated or GQ
V		1	.	Allocated
D WATER	4		152	155
T Cost of Water and Sewer (annual)				
V		blank	.	Not in universe (vacant or GQ)
V		0000	.	Included in rent or condominium fee
V		0001	.	No charge or not used
V		0002	.	$1 or $2
R		0003..1999	.	$3 to $1,999
V		2000	.	Topcode
V		2000+	.	State mean of topcoded values
D WATERA	1		156	156
T Cost of Water and Sewer (annual) Allocation Flag				
V		0	.	Not allocated or GQ
V		1	.	Allocated

D OIL 4 157 160
T Cost of Oil, Kerosene, or Wood (annual)
V blank . Not in universe (vacant or GQ)
V 0000 . Included in rent or condominium fee
V 0001 . No charge or not used
V 0002 . $1 or $2
R 0003..2099 . $3 to $2,099
V 2100 . Topcode
V 2100+ . State mean of topcoded values

D OILA 1 161 161
T Cost of Oil, Kerosene, or Wood (annual) Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D RENT 4 162 165
T Monthly Rent
V blank . Not in universe (GQ; or STENURE is not 3 and SISVAC is not 1)
R 0001..1699 . $1 to $1,699
V 1700 . Topcode
V 1700+ . State mean of topcoded values

D RENTA 1 166 166
T Monthly Rent Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D MEALS 1 167 167
T Meals Included in Rent
V blank . Not in universe (GQ; or TENURE is not 3 and VACSTAT is not 1)
V 1 . Yes
V 2 . No

D MEALSA 1 168 168
T Meals Included in Rent Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D MORTG1 1 169 169
T Mortgage Status
V blank . Not in universe (vacant, GQ, or renter-occupied)
V 1 . Yes, mortgage, deed of trust or similar debt
V 2 . Yes, contract to purchase
V 3 . No

D MORTG1A 1 170 170
T Mortgage Status Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D MRT1AMT 5 171 175
T Mortgage Payment (monthly amount)
V blank . Not in universe (vacant, GQ, renter-occupied, or owner- occupied and MORTG1 = 3)
V 00000 . No regular payment
R 00001..02999 . $1 to $2,999
V 03000 . Topcode
V 03000+ . State mean of topcoded values

D MRT1AMTA 1 176 176
T Mortgage Payment (monthly amount) Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D MORTG2 1 177 177
T Second Mortgage Status
V blank . Not in universe (vacant, GQ, renter-occupied, or owner- occupied and MORTG1 = 3)
V 1 . Yes, a 2nd mortgage
V 2 . Yes, a home equity loan
V 3 . No
V 4 . Both a 2nd mortgage and a home equity loan

D MORTG2A 1 178 178
T Second Mortgage Status Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D MRT2AMT 5 179 183
T Second Mortgage Payment (monthly amount)
V blank . Not in universe (vacant, GQ, renter-occupied, or owner- occupied and MORTG1 = 3)
V 00000 . No regular payment
R 00001..01099 . $1 to $1,099
V 01100 . Topcode
V 01100+ . State mean of topcoded values

D MRT2AMTA 1 184 184
T Second Mortgage Payment (monthly amount) Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D TAXINCL 1 185 185
T Property Tax Status
V blank . Not in universe (vacant, GQ, renter-occupied, or owner- occupied and MORTG1 = 3)
V 1 . Yes, taxes included in mortgage payment
V 2 . No, taxes paid separately, or taxes not required

D TAXINCLA 1 186 186
T Property Tax Status Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D TAXAMT 2 187 188
T Property Tax Amount (annual)
V 00 . Not in universe (GQ, renter-occupied or vacant but VACSTAT not 2)
V 01 . No taxes paid
V 02 . $1 to $49
V 03 . $50 to $99
V 04 . $100 to $149
V 05 . $150 to $199
V 06 . $200 to $249
V 07 . $250 to $299
V 08 . $300 to $349
V 09 . $350 to $399
V 10 . $400 to $449
V 11 . $450 to $499
V 12 . $500 to $549
V 13 . $550 to $599
V 14 . $600 to $649
V 15 . $650 to $699
V 16 . $700 to $749
V 17 . $750 to $799
V 18 . $800 to $849
V 19 . $850 to $899
V 20 . $900 to $949
V 21 . $950 to $999
V 22 . $1,000 to $1,099
V 23 . $1,100 to $1,199
V 24 . $1,200 to $1,299
V 25 . $1,300 to $1,399
V 26 . $1,400 to $1,499
V 27 . $1,500 to $1,599
V 28 . $1,600 to $1,699
V 29 . $1,700 to $1,799
V 30 . $1,800 to $1,899
V 31 . $1,900 to $1,999
V 32 . $2,000 to $2,099
V 33 . $2,100 to $2,199
V 34 . $2,200 to $2,299
V 35 . $2,300 to $2,399
V 36 . $2,400 to $2,499
V 37 . $2,500 to $2,599
V 38 . $2,600 to $2,699
V 39 . $2,700 to $2,799
V 40 . $2,800 to $2,899
V 41 . $2,900 to $2,999
V 42 . $3,000 to $3,099

V	43	.	$3,100 to $3,199
V	44	.	$3,200 to $3,299
V	45	.	$3,300 to $3,399
V	46	.	$3,400 to $3,499
V	47	.	$3,500 to $3,599
V	48	.	$3,600 to $3,699
V	49	.	$3,700 to $3,799
V	50	.	$3,800 to $3,899
V	51	.	$3,900 to $3,999
V	52	.	$4,000 to $4,099
V	53	.	$4,100 to $4,199
V	54	.	$4,200 to $4,299
V	55	.	$4,300 to $4,399
V	56	.	$4,400 to $4,499
V	57	.	$4,500 to $4,599
V	58	.	$4,600 to $4,699
V	59	.	$4,700 to $4,799
V	60	.	$4,800 to $4,899
V	61	.	$4,900 to $4,999
V	62	.	$5,000 to $5,499
V	63	.	$5,500 to $5,999
V	64	.	$6,000 to $6,999
V	65	.	$7,000 to $7,999
V	66	.	$8,000 to $9,099
V	67	.	$9,100 or more

D TAXAMTA	1	189	189
T Property Tax Amount (annual) Allocation Flag			
V	0	.	Not allocated or GQ
V	1	.	Allocated

D INSINCL	1	190	190
T Property Insurance Status			
V	blank	.	Not in universe (vacant, GQ, renter-occupied, or owner- occupied and MORTG1 = 3)
V	1	.	Yes, insurance included in mortgage payment
V	2	.	No, insurance paid separately, or no insurance

D INSINCLA	1	191	191
T Property Insurance Status Allocation Flag			
V	0	.	Not allocated or GQ
V	1	.	Allocated

HOUSING UNIT RECORD—Con.

D INSAMT	4		192	195
T Property Insurance Amount (annual)				
V		blank	.	Not in universe (vacant, GQ, or renter-occupied)
V		0000	.	No insurance payment
R		0001..2499	.	$1 to $2,499
V		2500	.	Topcode
V		2500+	.	State mean of topcoded values
D INSAMTA	1		196	196
T Property Insurance Amount (annual) Allocation Flag				
V		0	.	Not allocated or GQ
V		1	.	Allocated
D CONDFEE	4		197	200
T Condominium Fee (monthly)				
V		blank	.	Not in universe (vacant, GQ, or renter-occupied)
V		0000	.	Not a condominium
R		0001..0719	.	$1 to $719
V		0720	.	Topcode
V		0720+	.	State mean of topcoded values
D CONDFEEA	1		201	201
T Condominium Fee (monthly) Allocation Flag				
V		0	.	Not allocated or GQ
V		1	.	Allocated
D VALUE	2		202	203
T Property Value				
V		blank	.	Not in universe (GQ, TENURE = 3-4, or VACSTAT = 1, 3-6)
V		01	.	Less than $10,000
V		02	.	$10,000 to $14,999
V		03	.	$15,000 to $19,99
V		04	.	$20,000 to $24,999
V		05	.	$25,000 to $29,999
V		06	.	$30,000 to $34,999
V		07	.	$35,000 to $39,999
V		08	.	$40,000 to $49,999
V		09	.	$50,000 to $59,999
V		10	.	$60,000 to $69,999
V		11	.	$70,000 to $79,999
V		12	.	$80,000 to $89,999
V		13	.	$90,000 to $99,999
V		14	.	$100,000 to $124,999
V		15	.	$125,000 to $149,999
V		16	.	$150,000 to $174,999
V		17	.	$175,000 to $199,999
V		18	.	$200,000 to $249,999
V		19	.	$250,000 to $299,999
V		20	.	$300,000 to $399,999

V 21 . $400,000 to $499,999
V 22 . $500,000 to $749,999
V 23 . $750,000 to $999,999
V 24 . $1,000,000 or more

D VALUEA 1 204 204
T Property Value Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D MHLOAN 1 205 205
T Mobile Home Loan Status
V blank . Not in universe (GQ, TENURE not 1-2, or BLDGSZ not 1)
V 1 . Yes
V 2 . No

D MHLOANA 1 206 206
T Mobile Home Loan Status Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D MHCOST 5 207 211
T Mobile Home Costs
V blank . Not in universe (GQ, TENURE not 1-2, or BLDGSZ not 1)
V 00000 . No cost
R 00001..09999 . $1 to $9,999
V 10000 . Topcode
V 10000+ . State mean of topcoded values

D MHCOSTA 1 212 212
T Mobile Home Costs Allocation Flag
V 0 . Not allocated or GQ
V 1 . Allocated

D HHT 1 213 213
T Household/Family Type
V 0 . Not in universe (vacant or GQ)
V 1 . Family household: married-couple
V 2 . Family household: male householder, no wife present
V 3 . Family household: female householder, no husband present
V 4 . Nonfamily household: male householder, living alone
V 5 . Nonfamily household: male householder, not living alone
V 6 . Nonfamily household: female householder, living alone
V 7 . Nonfamily household: female householder, not living alone

D P65 2 214 215
T Number of people 65 years and over in household
V 00 . Not in universe (vacant or GQ)
R 01..97 . 1 to 97 people 65 years and over

D P18 2 216 217
T Number of people under 18 years in household
V 00 . Not in universe (vacant or GQ)
R 01..97 . 1 to 97 people under 18 years

D NPF 2 218 219
T Number of people in family
V 00 . Not in universe (vacant, GQ, or HHT not 1-3)
R 02..97 . 2 to 97 related people in family

D NOC 2 220 221
T Number of own children under 18 years in household
V 00 . None (includes not in universe: vacant or GQ)
R 01..96 . 1 to 96 own children under 18 years

D NRC 2 222 223
T Number of related children under 18 years in household
V 00 . None (includes not in universe: vacant or GQ)
R 01..96 . 1 to 96 related children under 18 years

D PSF 1 224 224
T Presence of Subfamily in Household
V 0 . No subfamilies (includes not in universe: vacant or GQ)
V 1 . 1 or more subfamilies

D PAOC 1 225 225
T Presence and Age of Own Children under 18 years
V 0 . Not in universe (vacant or GQ)
V 1 . With own children under 6 years only
V 2 . With own children 6 to 17 years only
V 3 . With own children under 6 years and 6 to 17 years
V 4 . No own children under 18 years

D PARC 1 226 226
T Presence and Age of Related Children under 18 years
V 0 . Not in universe (vacant or GQ)
V 1 . With related children under 6 years only
V 2 . With related children 6 to 17 years only
V 3 . With related children under 6 years and 6 to 17 years
V 4 . No related children under 18 years

D SVAL 1 227 227

T Specified Value Indicator
V 0 . Not specified unit (includes GQ, rental units)
V 1 . Specified unit

D SMOC 5 228 232
T Selected Monthly Owner Costs
V 00000 . Not in universe (vacant, GQ, no costs, not owner-occupied)
R 00001..24999 . $1 to $24,999
V 25000 . $25,000 or more

D SMOCAPI 3 233 235
T Selected Monthly Owner Costs as a Percentage of Household Income
V 000 . Not in universe (vacant, GQ, no costs, not owner-occupied, or household income less than $1)
R 001..100 . 1% to 100%
V 101 . 101% or more

D SRNT 1 236 236
T Specified Rent Indicator
V 0 . Not specified rental unit (includes GQ, owned units)
V 1 . Specified

D GRENT 4 237 240
T Gross Rent
V 0000 . Not in universe (vacant, GQ, owner-occupied, not rented for cash rent)
R 0001..9998 . $1 to $9,998
V 9999 . $9,999 or more

D GRAPI 3 241 243
T Gross Rent as a Percentage of Household Income
V 000 . Not in universe (vacant, GQ, owner-occupied, not rented for cash rent, or household income is not positive, or 0%)
R 001..100 . 1% to 100%
V 101 . 101% or more

D FNF 1 244 244
T Farm/Nonfarm Recode
V 0 . Not in universe (GQ, or urban)
V 1 . Farm
V 2 . Nonfarm

D HHL 1 245 245
T Household Language
V 0 . Not in universe (vacant or GQ)
V 1 . English only
V 2 . Spanish
V 3 . Other Indo-European
V 4 . Asian or Pacific Island
V 5 . Other language

D LNGI 1 246 246
T Linguistic Isolation
V 0 . Not in universe (vacant or GQ)
V 1 . Not linguistically isolated
V 2 . Linguistically isolated

D WIF 1 247 247
T Number of workers in family
V 0 . Not in universe (vacant, GQ, or HHT not 1-3)
V 1 . No workers in family
V 2 . 1 worker in family
V 3 . 2 workers in family
V 4 . 3 or more workers in family

D EMPSTAT 1 248 248
T Family Type and Employment Status
V 0 . Not in universe (vacant, GQ, or HHT not 1-3)
V 1 . Married-couple family; husband in labor force, wife in labor force
V 2 . Married-couple family; husband in labor force, wife not in labor force
V 3 . Married-couple family; husband not in labor force, wife in labor force
V 4 . Married-couple family; husband not in labor force, wife not in labor force
V 5 . Other family, male householder, no wife present, in labor force
V 6 . Other family, male householder, no wife present, not in labor force
V 7 . Other family, female householder, no husband present, in labor force
V 8 . Other family, female householder, no husband present, not in labor force

D WORKEXP 2 249 250
T Family Type and Work Experience of Householder
V 00 . Not in universe (vacant, GQ, or HHT not 1-3)
V 01 . Married-couple family; householder worked full-time year- round in 1999, spouse worked full-time year-round in 1999
V 02 . Married-couple family; householder worked full-time year- round in 1999, spouse worked less than full-time year-round in 1999
V 03 . Married-couple family; householder worked full-time year- round in 1999, spouse did not work in 1999
V 04 . Married-couple family; householder worked less than full-time year-round in 1999, spouse worked full-time year-round in 1999

V		05	. Married-couple family; householder worked less than full-time year-round in 1999, spouse worked less than full-time year-round in 1999
V		06	. Married-couple family; householder worked less than full-time year-round in 1999, spouse did not work in 1999
V		07	. Married-couple family; householder did not work in 1999, spouse worked full-time year-round in 1999
V		08	. Married-couple family; householder did not work in 1999, spouse worked less than full-time year-round in 1999
V		09	. Married-couple family; householder did not work in 1999, spouse did not work in 1999
V		10	. Other family; male householder, no wife present, householder worked full-time year-round in 1999
V		11	. Other family; male householder, no wife present, householder worked less than full-time year-round in 1999
V		12	. Other family; male householder, no wife present, householder did not work in 1999
V		13	. Other family; female householder, no husband present, householder worked full-time year-round in 1999
V		14	. Other family; female householder, no husband present, householder worked less than full-time year-round in 1999
V		15	. Other family; female householder, no husband present, householder did not work in 1999

D HINC	8		251	258
T Household Total Income in 1999				
V		–0059999	. Loss of $59,999 or more	
R	–0000001	..–0059998	. Loss of $1 to $59,998	
V		00000000	. Not in universe (vacant, GQ, no income)	
V		00000001	. $1 or break even	
R	00000002	..99999998	. $2 to $99,999,998	
V		99999999	. $99,999,999 or more	

D FINC	8		259	266
T Family Total Income in 1999				
V		–0059999	. Loss of $59,999 or more	
R	–0000001	..–0059998	. Loss of $1 to $59,998	
V		00000000	. Not in universe (vacant, GQ, no income)	
V		00000001	. $1 or break even	
R	00000002	..99999998	. $2 to $99,999,998	
V		99999999	. $99,999,999 or more	

D FILLER	48	267	314

PERSON RECORD

DATA	SIZE		BEGIN	END
D RECTYPE	1		1	1
T Record Type				
V		P	. Person record	
D SERIALNO	7		2	8
T Housing/Group Quarters (GQ) Unit Serial Number				
SERIALNO is common for each unit and all persons within the unit.				
R		0000001..9999999	. Unique identifier assigned within state	
D PNUM	2		9	10
T Person Sequence Number				
R		01..97	. Person Number	
D PAUG	1		11	11
T Augmented Person Flag				
V		0	. Not augmented	
V		1	. Augmented	
D DDP	1		12	12
T Data-defined Person Flag				
V		0	. Yes	
V		1	. No, imputed by edit	
V		2	. No, substituted	
D PWEIGHT	4		13	16
T Person Weight				
R		0000..1406	. Person weight	
D RELATE	2		17	18
T Relationship				
V		01	. Householder	
V		02	. Husband/wife	
V		03	. Natural born son/daughter	
V		04	. Adopted son/daughter	
V		05	. Stepson/Stepdaughter	
V		06	. Brother/sister	
V		07	. Father/mother	
V		08	. Grandchild	
V		09	. Parent-in-law	
V		10	. Son-in-law/daughter-in-law	
V		11	. Other relative	
V		12	. Brother-in-law/sister-in-law	
V		13	. Nephew/niece	
V		14	. Grandparent	
V		15	. Uncle/aunt	
V		16	. Cousin	
V		17	. Roomer/boarder	
V		18	. Housemate/roommate	
V		19	. Unmarried partner	

V 20 . Foster child
V 21 . Other nonrelative
V 22 . Institutionalized GQ person
V 23 . Noninstitutionalized GQ person

D RELATEA 1 19 19
T Relationship Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D OC 1 20 20
T Own Child Indicator
V 0 . Not an own child under 18 years(includes GQ)
V 1 . Yes, own child under 18 years

D RC 1 21 21
T Related Child Indicator
V 0 . Not a related child under 18 years (includes GQ)
V 1 . Yes, related child under 18 years

D PAOCF 1 22 22
T Presence and Age of Own Children, Females
V 0 . Not in universe (GQ, male, and females under 16 years)
V 1 . With own children under 6 years only
V 2 . With own children 6 to 17 years only
V 3 . With own children under 6 years and 6 to 17 years
V 4 . No own children under 18 years

D SEX 1 23 23
T Sex
V 1 . Male
V 2 . Female

D SEXA 1 24 24
T Sex Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D AGE 2 25 26
T Age
V 0 . Under 1 year
R 01..89 . 1 to 89 years
V 90 . Topcode
V 90+ . State mean of topcoded values

D AGEA 1 27 27
T Age Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D HISPAN 2 28 29
T Hispanic or Latino Origin
V 01 . Not Hispanic or Latino

V 02 . Mexican
V 03 . Puerto Rican
V 04 . Cuban
V 05 . Dominican
V 06 . Costa Rican
V 07 . Guatemalan
V 08 . Honduran
V 09 . Nicaraguan
V 10 . Panamanian
V 11 . Salvadoran
V 12 . Other Central American
V 13 . Argentinean
V 14 . Bolivian
V 15 . Chilean
V 16 . Colombian
V 17 . Ecuadorian
V 18 . Paraguayan
V 19 . Peruvian
V 20 . Uruguayan
V 21 . Venezuelan
V 22 . Other South American
V 23 . Spaniard
V 24 . Other Spanish or Latino

D HISPANA 1 30 30
T Hispanic or Latino Origin Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D NUMRACE 1 31 31
T Number of Major Race Groups Marked
V 1 . One race
V 2 . Two races
V 3 . Three races
V 4 . Four races
V 5 . Five races
V 6 . Six races

D WHITE 1 32 32
T White recode
V 0 . No
V 1 . Yes, alone or in combination with one or more other races

D BLACK 1 33 33
T Black or African American recode
V 0 . No
V 1 . Yes, alone or in combination with one or more other races

D AIAN 1 34 34
T American Indian and Alaska Native recode
V 0 . No

V			1 . Yes, alone or in combination with one or more other races	
D ASIAN	1		35	35
T Asian recode				
V			0 . No	
V			1 . Yes, alone or in combination with one or more other races	
D NHPI	1		36	36
T Native Hawaiian and Other Pacific Islander recode				
V			0 . No	
V			1 . Yes, alone or in combination with one or more other races	
D OTHER	1		37	37
T Some other race recode				
V			0 . No	
V			1 . Yes, alone or in combination with one or more other races	
D RACE1	1		38	38
T Race Recode 1				
V			1 . White alone	
V			2 . Black or African American alone	
V			3 . American Indian alone	
V			4 . Alaska Native alone	
V			5 . American Indian and Alaska Native tribes specified, and American Indian or Alaska Native, not specified, and no other races	
V			6 . Asian alone	
V			7 . Native Hawaiian and Other Pacific Islander alone	
V			8 . Some other race alone	
V			9 . Two or more major race groups	
D RACE2	2		39	40
T Race Recode 2				
V			01 . White alone	
V			02 . Black or African American alone	
American Indian alone:				
V			03 . Apache alone	
V			04 . Blackfeet alone	
V			05 . Cherokee alone	
V			06 . Cheyenne alone	
V			07 . Chickasaw alone	
V			08 . Chippewa alone	
V			09 . Choctaw alone	
V			10 . Comanche alone	
V			11 . Creek alone	
V			12 . Crow alone	
V			13 . Delaware alone	
V			14 . Iroquois alone	
V			15 . Kiowa alone	

V	16	. Latin American Indian alone
V	17	. Lumbee alone
V	18	. Navajo alone
V	19	. Paiute alone
V	20	. Pima alone
V	21	. Potawatomi alone
V	22	. Pueblo alone
V	23	. Puget Sound Salish alone
V	24	. Seminole alone
V	25	. Sioux alone
V	26	. Tohono O'Odham alone
V	27	. Yakama alone
V	28	. Yaqui alone
V	29	. Other specified American Indian tribes alone
V	30	. All other specified American Indian tribe combinations
		Alaska Native alone:
V	31	. Alaskan Athabascan alone
V	32	. Aleut alone
V	33	. Eskimo alone
V	34	. Tlingit-Haida alone
V	35	. All specified American Indian and Alaska Native tribes alone or in combination with other tribes
V	36	. American Indian and Alaska Native, not specified
		Asian alone:
V	37	. Asian Indian alone
V	38	. Bangladeshi alone
V	39	. Cambodian alone
V	40	. Chinese, except Taiwanese, alone
V	41	. Taiwanese alone
V	42	. Filipino alone
V	43	. Hmong alone
V	44	. Indonesian alone
V	45	. Japanese alone
V	46	. Korean alone
V	47	. Laotian alone
V	48	. Malaysian alone
V	49	. Pakistani alone
V	50	. Sri Lankan alone
V	51	. Thai alone
V	52	. Vietnamese alone
V	53	. Other specified Asian alone
V	54	. Asian, not specified, alone
V	55	. All combinations of Asian races only

PERSON RECORD—Con.

Native Hawaiian and Other Pacific Islander alone:

V 56 . Native Hawaiian alone
V 57 . Samoan alone
V 58 . Tongan alone
V 59 . Other Polynesian alone or in combination with other Polynesian races
V 60 . Guamanian or Chamorro alone
V 61 . Other Micronesian alone or in combination with other Micronesian races
V 62 . Melanesian alone or in combination with other Melanesian races
V 63 . Other Native Hawaiian and Other Pacific Islander
V 64 . Some other race alone
V 65 . Two or more major races

D RACE3 2 41 42
T Race Recode 3
V 01 . Some other race alone
V 02 . Other Pacific Islander alone
V 03 . Other Pacific Islander; Some other race
V 04 . Samoan alone
V 05 . Guamanian or Chamorro alone
V 06 . Native Hawaiian alone
V 07 . Other Asian alone
V 08 . Other Asian; Some other race
V 09 . Other Asian; Other Pacific Islander
V 10 . Vietnamese alone
V 11 . Korean alone
V 12 . Japanese alone
V 13 . Japanese; Some other race
V 14 . Japanese; Native Hawaiian
V 15 . Filipino alone
V 16 . Filipino; Some other race
V 17 . Filipino; Other Pacific Islander
V 18 . Filipino; Native Hawaiian
V 19 . Filipino; Japanese
V 20 . Chinese alone
V 21 . Chinese; Some other race
V 22 . Chinese; Native Hawaiian
V 23 . Chinese; Other Asian
V 24 . Chinese; Vietnamese
V 25 . Chinese; Japanese
V 26 . Chinese; Filipino
V 27 . Chinese; Filipino; Native Hawaiian
V 28 . Asian Indian alone
V 29 . Asian Indian; Some other race
V 30 . Asian Indian; Other Pacific Islander
V 31 . Asian Indian; Other Asian
V 32 . American Indian and Alaska Native alone
V 33 . American Indian and Alaska Native; Some other race

V		34	. American Indian and Alaska Native; Other Asian	
V		35	. American Indian and Alaska Native; Filipino	
V		36	. American Indian and Alaska Native; Asian Indian	
V		37	. Black or African American alone	
V		38	. Black or African American; Some other race	
V		39	. Black or African American; Other Pacific Islander	
V		40	. Black or African American; Other Asian	
V		41	. Black or African American; Korean	
V		42	. Black or African American; Japanese	
V		43	. Black or African American; Filipino	
V		44	. Black or African American; Chinese	
V		45	. Black or African American; Asian Indian	
V		46	. Black or African American; American Indian and Alaska Native	
V		47	. White alone	
V		48	. White; Some other race	
V		49	. White; Other Pacific Islander	
V		50	. White; Samoan	
V		51	. White; Guamanian or Chamorro	
V		52	. White; Native Hawaiian	
V		53	. White; Other Asian	
V		54	. White; Other Asian; Some other race	
V		55	. White; Vietnamese	
V		56	. White; Korean	
V		57	. White; Japanese	
V		58	. White; Japanese; Native Hawaiian	
V		59	. White; Filipino	
V		60	. White; Filipino; Some other race	
V		61	. White; Filipino; Native Hawaiian	
V		62	. White; Chinese	
V		63	. White; Chinese; Native Hawaiian	
V		64	. White; Chinese; Filipino; Native Hawaiian	
V		65	. White; Asian Indian	
V		66	. White; American Indian and Alaska Native	
V		67	. White; American Indian and Alaska Native; Some other race	
V		68	. White; Black or African American	
V		69	. White; Black or African American; Some other race	
V		70	. White; Black or African American; American Indian and Alaska Native	
V		71	. All other race combinations	
D RACEA	1	43		43
T Race Allocation Flag				
V		0	. Not allocated	
V		1	. Allocated	
D MARSTAT	1	44		44
T Marital Status				

V 1 . Now married
V 2 . Widowed
V 3 . Divorced
V 4 . Separated
V 5 . Never married (includes under 15 years)

D MARSTATA 1 45 45
T Marital Status Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D MSP 1 46 46
T Married, Spouse Present Recode
V 0 . Not in universe (Under 15 years)

V 1 . Now married, spouse present
V 2 . Now married, spouse absent
V 3 . Widowed
V 4 . Divorced
V 5 . Separated
V 6 . Never married

D SFN 1 47 47
T Subfamily Number for this person
V 0 . Not in a subfamily

V 1 . In subfamily #1
V 2 . In subfamily #2
V 3 . In subfamily #3
V 4 . In subfamily #4

D SFREL 1 48 48
T Subfamily Relationship
V 0 . Not in a subfamily
V 1 . Husband/wife, no children
V 2 . Husband/wife, with children
V 3 . Parent in one-parent subfamily
V 4 . Child in married-couple subfamily
V 5 . Child in mother-child subfamily
V 6 . Child in father-child subfamily

D ENROLL 1 49 49
T School Enrollment; Attended since February 1, 2000
V 0 . Not in universe (Under 3 years)
V 1 . No, has not attended since February 1
V 2 . Yes, public school or college
V 3 . Yes, private school or college

D ENROLLA 1 50 50
T School Enrollment: Attended since February 1, 2000 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D GRADE 1 51 51
T School Enrollment: Grade Level Attending

V 0 . Not in universe (Under 3 years or ENROLL = 1)
V 1 . Nursery school, preschool
V 2 . Kindergarten
V 3 . Grade 1 to grade 4
V 4 . Grade 5 to grade 8
V 5 . Grade 9 to grade 12
V 6 . College undergraduate
V 7 . Graduate or professional school

D GRADEA 1 52 52
T School Enrollment: Grade Level Attending Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D EDUC 2 53 54
T Educational Attainment
V 00 . Not in universe (Under 3 years)
V 01 . No schooling completed
V 02 . Nursery school to 4th grade
V 03 . 5th grade or 6th grade
V 04 . 7th grade or 8th grade
V 05 . 9th grade
V 06 . 10th grade
V 07 . 11th grade
V 08 . 12th grade, no diploma
V 09 . High school graduate
V 10 . Some college, but less than 1 year
V 11 . One or more years of college, no degree
V 12 . Associate degree
V 13 . Bachelor's degree
V 14 . Master's degree
V 15 . Professional degree
V 16 . Doctorate degree

D EDUCA 1 55 55
T Educational Attainment Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D ANCFRST1 3 56 58
T Ancestry Code 1 for 1% file
R 001..999 . See Appendix G

D ANCSCND1 3 59 61
T Ancestry Code 2 for 1% file
R 001..999 . See Appendix G

D ANCA 1 62 62
T Ancestry Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D ANCR 1 63 63

T Ancestry Recode
V 1 . Single
V 2 . Multiple
V 3 . Unclassified
V 4 . Not reported

D SPEAK 1 64 64
T Non-English Language
V blank . Not in universe (Under 5 years)
V 1 . Yes
V 2 . No

D SPEAKA 1 65 65
T Non-English Language Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D LANG1 3 66 68
T Language Spoken for 1% file
V 000 . Not in universe (Less than 5 years or SPEAK = 2)
R 001..999 . See Appendix G

D LANGA 1 69 69
T Language Spoken Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D ENGABIL 1 70 70
T English Ability
V blank . Not in universe (Under 5 years or SPEAK = 2)
V 1 . Very well
V 2 . Well
V 3 . Not well
V 4 . Not at all

D ENGABILA 1 71 71
T English Ability Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D POB1 3 72 74
T Place of Birth for 1% file
R 001..056 . FIPS Codes for U.S. States
R 060..096 . Specific Island Areas
R 100..554 . Foreign countries or at sea

D POBA 1 75 75
T Place of Birth Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D CITIZEN 1 76 76
T Citizenship Status
V 1 . Yes, born in the United States

V		2	.	Yes, born in Puerto Rico, Guam, U.S. Virgin Islands, American Samoa, or Northern Marianas
V		3	.	Yes, born abroad of American parent or parents
V		4	.	Yes, U.S. citizen by naturalization
V		5	.	No, not a citizen of the United States
D CITIZENA	1		77	77
T Citizenship Status Allocation Flag				
V		0	.	Not allocated
V		1	.	Allocated
D YR2US	4		78	81
T Year of Entry to United States				
V		0000	.	Not in universe (CITIZEN = 1)
V		1910	.	1910 or earlier
R		1911..2000	.	1911 to 2000
D YR2USA	1		82	82
T Year of Entry to United States Allocation Flag				
V		0	.	Not allocated
V		1	.	Allocated
D MOB	1		83	83
T Residence 5 Years Ago				
V		0	.	Not in universe (Under 5 years)
V		1	.	Yes, same house
V		2	.	No, outside the U.S. (outside the U.S. or Puerto Rico if Puerto Rico is state of residence)
V		3	.	No, different house in the U.S. (different house in Puerto Rico or the U.S. if Puerto Rico is the state of residence)
D MOBA	1		84	84
T Residence 5 Years Ago Allocation Flag				
V		0	.	Not allocated
V		1	.	Allocated
D MIGST1	3		85	87
T Migration State or Foreign Country Code for 1% file				
V		000	.	Not in universe (Under 5 years or MOB =1)
R		001..056	.	FIPS State Code
R		060..095	.	FIPS Island Area Code
R		100..554	.	Foreign country or at sea
D MIGSTA	1		88	88
T Migration State or Foreign County Code Allocation Flag				
V		0	.	Not allocated
V		1	.	Allocated
D FILLER	5		89	93
D MIGPUMA1	5		94	98
T Migration Super-PUMA				

PERSON RECORD—Con.

V		00000	.	Not in universe (Under 5 years or MOB =1)
V		00001	.	Did not live in the United States or in Puerto Rico in 1995
V		00002	.	Lived in Puerto Rico in 1995 and in the U.S. in 2000
R		00100..72100	.	Assigned Migration Super-PUMA (See Appendix K) Use with MOB to differentiate same house/different house
D FILLER	2		99	100
D MIGAREA1	2		101	102
T Migration Super-PUMA Relationship to MA (See page 3-2)				
V		00	.	Not in universe (Under 5 years)
V		01	.	Did not live in the United States or in Puerto Rico in 1995
V		02	.	Lived in Puerto Rico in 1995 and in the U.S. in 2000
V		11	.	Contains only metropolitan territory inside central city (MSA part of fully-identified MSA)
V		12	.	Contains only metropolitan territory outside central city (MSA part of fully-identified MSA)
V		13	.	Contains only metropolitan territory both inside and outside central city (MSA part of fully identified MSA)
V		14	.	Contains an entire MSA (and no other territory)
V		21	.	Contains only metropolitan territory inside central city (MSA part of partially-identified MSA)
V		22	.	Contains only metropolitan territory outside central city (MSA part of partially-identified MSA)
V		23	.	Contains only metropolitan territory both inside and outside central city (MSA part of partially-identified MSA)
V		31	.	Contains only metropolitan territory inside central city (PMSA part of fully-identified PMSA and fully-identified CMSA)
V		32	.	Contains only metropolitan territory outside central city (PMSA part of fully-identified PMSA and fully-identified CMSA)
V		33	.	Contains only metropolitan territory both inside and outside central city (PMSA part of fully-identified PMSA and fully- identified CMSA)
V		34	.	Contains an entire PMSA (and no other territory) (PMSA belongs to a fully-identified CMSA)
V		41	.	Contains only metropolitan territory inside central city (PMSA part of fully-identified PMSA and partially-identified CMSA)

PERSON RECORD—Con.

V		42	.	Contains only metropolitan territory outside central city (PMSA part of fully-identified PMSA and partially-identified CMSA)
V		43	.	Contains only metropolitan territory both inside and outside central city (PMSA part of fully-identified PMSA and partially-identified CMSA)
V		44	.	Contains an entire PMSA (and no other territory) (PMSA belongs to a partially-identified CMSA)
V		51	.	Contains only metropolitan territory inside central city (PMSA part of partially-identified PMSA and partially- identified CMSA)
V		52	.	Contains only metropolitan territory outside central city (PMSA part of partially-identified PMSA and partially- identified CMSA)
V		53	.	Contains only metropolitan territory both inside and outside central city (PMSA part of partially-identified PMSA and partially-identified CMSA)
V		70	.	Contains both metropolitan and nonmetropolitan territory
V		80	.	Contains only metropolitan territory in two or more partial and/or entire MSAs/PMSAs/CMSAs
V		90	.	Contains only nonmetropolitan territory
D FILLER	4		103	106
D MIGCMA1	4		107	110
T Migration MA: MSA/CMSA for Migration Super-PUMA				
V		0000	.	Not in universe (Under 5 years or MOB =1)
V		0001	.	Did not live in the United States or in Puerto Rico in 1995
V		0002	.	Lived in Puerto Rico in 1995 and in the U.S. in 2000
R		0040..9360	.	FIPS MSA/CMSA Code
V		9997	.	Mixed MSA/CMSA and nonmetropolitan territory
V		9998	.	2 or more partial and/or entire MSAs/CMSAs
V		9999	.	Not in metropolitan area
D FILLER	4		111	114
D MIGPMA1	4		115	118
T Migration MA: MSA/PMSA for Migration Super-PUMA				
V		0000	.	Not in universe (Under 5 years or MOB=1)
V		0001	.	Did not live in the United States or in Puerto Rico in 1995
V		0002	.	Lived in Puerto Rico in 1995 and in the U.S. in 2000
R		0040..9360	.	FIPS MSA/PMSA Code
V		9997	.	Mixed MSA/PMSA and nonmetropolitan territory

V		9998	.	2 or more partial and /or entire MSAs/PMSAs
V		9999	.	Not in metropolitan area
D SENSORY	1		119	119
T Sensory Disability				
V		blank	.	Not in universe (Under 5 years)
V		1	.	Yes
V		2	.	No
D SENSORYA	1		120	120
T Sensory Disability Allocation Flag				
V		0	.	Not allocated
V		1	.	Allocated
D PHYSCL	1		121	121
T Physical Disability				
V		blank	.	Not in universe (Under 5 years)
V		1	.	Yes
V		2	.	No
D PHYSCLA	1		122	122
T Physical Disability Allocation Flag				
V		0	.	Not allocated
V		1	.	Allocated
D MENTAL	1		123	123
T Mental Disability				
V		blank	.	Not in universe (Under 5 years)
V		1	.	Yes
V		2	.	No
D MENTALA	1		124	124
T Mental Disability Allocation Flag				
V		0	.	Not allocated
V		1	.	Allocated
D SLFCARE	1		125	125
T Self-Care Disability				
V		blank	.	Not in universe (Under 5 years)
V		1	.	Yes
V		2	.	No
D SLFCAREA	1		126	126
T Self-Care Disability Allocation Flag				
V		0	.	Not allocated
V		1	.	Allocated
D ABGO	1		127	127
T Able to Go Out Disability				
V		blank	.	Not in universe (Under 16 years)
V		1	.	Yes
V		2	.	No
D ABGOA	1		128	128

T Able to Go Out Disability Allocation Flag

V 0 . Not allocated
V 1 . Allocated

D ABWORK 1 129 129
T Employment Disability
V blank . Not in universe (Under 16 years)
V 1 . Yes
V 2 . No

D ABWORKA 1 130 130
T Employment Disability Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D DISABLE 1 131 131
T Disability Recode
V 0 . Not in universe (Under 5 years)
V 1 . With a disability
V 2 . Without a disability

D GRANDC 1 132 132
T Presence of Grandchildren under 18 years
V 0 . Not in universe (Under 15 years)
V 1 . Yes
V 2 . No

D GRANDCA 1 133 133
T Presence of Grandchildren under 18 years Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D RSPNSBL 1 134 134
T Responsible for Grandchildren
V 0 . Not in universe (Under 15 years or GRANDC = 2)
V 1 . Yes
V 2 . No

D RSPNSBLA 1 135 135
T Responsible for Grandchildren Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D HOWLONG 1 136 136
T Length of Responsibility for Grandchildren
V 0 . Not in universe (Under 15 years or RSPNSBL = 2)
V 1 . Less than 6 months
V 2 . 6 to 11 months
V 3 . 1 or 2 years
V 4 . 3 or 4 years
V 5 . 5 years or more

D HOWLONGA 1 137 137
T Length of Responsibility for Grandchildren Allocation Flag

V 0 . Not allocated

V 1 . Allocated

D MILTARY 1 138 138
T Military Service
V 0 . Not in universe (Under 17 years)
V 1 . Yes, now on active duty
V 2 . Yes, on active duty in the past, but not now
V 3 . No, training for reserves or National Guard only
V 4 . No active duty service

D MILTARYA 1 139 139
T Military Service Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D VPS1 1 140 140
T Veteran's Period of Service 1: On active duty April 1995 or later
V 0 . Did not serve in this period or under 17 years
V 1 . Served in this period

D VPS2 1 141 141
T Veteran's Period of Service 2: On active duty August 1990 to March 1995 (including Persian Gulf War)
V 0 . Did not serve in this period or under 17 years
V 1 . Served in this period

D VPS3 1 142 142
T Veteran's Period of Service 3: On active duty September 1980 to July 1990
V 0 . Did not serve in this period or under 17 years
V 1 . Served in this period

D VPS4 1 143 143
T Veteran's Period of Service 4: On active duty May 1975 to August 1980
V 0 . Did not serve in this period or under 17 years
V 1 . Served in this period

D VPS5 1 144 144
T Veteran's Period of Service 5: On active duty during the Vietnam Era (August 1964 to April 1975)
V 0 . Did not serve in this period or under 17 years
V 1 . Served in this period

D VPS6 1 145 145
T Veteran's Period of Service 6: On active duty February 1955 to July 1964
V 0 . Did not serve in this period or under 17 years
V 1 . Served in this period

D VPS7 1 146 146

T Veteran's Period of Service 7: On active duty during the Korean War (June 1950 to January 1955)

V 0 . Did not serve in this period or under 17 years
V 1 . Served in this period

D VPS8 1 147 147
T Veteran's Period of Service 8: On active duty during World War II (September 1940 to July 1947)
V 0 . Did not serve in this period or under 17 years
V 1 . Served in this period

D VPS9 1 148 148
T Veteran's Period of Service 9: On active duty any other time
V 0 . Did not serve in this period or under 17 years
V 1 . Served in this period

D VPSA 1 149 149
T Veteran's Period of Service Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D MILYRS 1 150 150
T Years of Military Service
V 0 . Not in universe (Under 17 years)
V 1 . Less than 2 years
V 2 . 2 years or more

D MILYRSA 1 151 151
T Years of Military Service Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D VPSR 2 152 153
T Veteran's Period of Service Recode
V 00 . Not in universe (Under 18 years or no active duty military service)
V 01 . August 1990 or later (including Persian Gulf War); Served in Vietnam era
V 02 . August 1990 or later (including Persian Gulf War); No Vietnam era service; September 1980 or later only; Served under 2 years
V 03 . August 1990 or later (including Persian Gulf War); No Vietnam era service; September 1980 or later only; Served 2 years or more
V 04 . August 1990 or later (including Persian Gulf War); No Vietnam era service; September 1980 or later only; Served prior to September 1980
V 05 . May 1975 to July 1990 only: September 1980 to July 1990 only: Served under 2 years
V 06 . May 1975 to July 1990 only: September 1980 to July 1990 only: Served 2 years or more

V		07	.	May 1975 to July 1980 only: September 1980 to July 1990 only; Other May 1975 to August 1980 service
V		08	.	Vietnam era, no Korean War, no WWII, no August 1990 or later
V		09	.	Vietnam era, Korean War, no WWII
V		10	.	Vietnam era, Korean War, and WWII
V		11	.	February 1955 to July 1964 only
V		12	.	Korean War, no Vietnam era, no WWII
V		13	.	Korean War and WWII, no Vietnam era
V		14	.	WWII, no Korean War, no Vietnam era
V		15	.	Other service only

D ESR	1	154	154

T Employment Status Recode

V	0	.	Not in universe (Under 16 years)
V	1	.	Employed, at work
V	2	.	Employed, with a job but not at work
V	3	.	Unemployed
V	4	.	Armed Forces, at work
V	5	.	Armed Forces, with a job but not at work
V	6	.	Not in labor force

D ESRA	1	155	155

T Employment Status Allocation Flag

V	0	.	Not allocated
V	1	.	Allocated

D ESP	1	156	156

T Employment Status of Parent(s)

V	0	.	Not in universe (not own child in family or child in subfamily)
V	1	.	Living with 2 parents, both parents in labor force
V	2	.	Living with 2 parents, father only in labor force
V	3	.	Living with 2 parents, mother only in labor force
V	4	.	Living with 2 parents, neither parent in labor force
V	5	.	Living with one parent: living with father; father in labor force
V	6	.	Living with one parent; living with father; father not in labor force
V	7	.	Living with one parent: living with mother; mother in labor force
V	8	.	Living with one parent; living with mother; mother not in labor force

D POWST1	3	157	159

T Place of Work State or Foreign Country Code for 1% file

V	000	.	Not in universe (Under 16 years or ESR not 1 and not 4)
R	001..056	.	FIPS State Code

PERSON RECORD—Con.

R		060..071	.	Island Area
V		072	.	Puerto Rico
R		073..075	.	Island Area
V		096	.	Island Area not specified
R		100..553	.	Foreign Country
V		554	.	At sea
V		555	.	Abroad, country not specified

D POWSTA	1	160	160

T Place of Work State or Foreign Country Code Allocation Flag

V	0	.	Not allocated
V	1	.	Allocated

D FILLER	5	161	165

D POWPUMA1	5	166	170

T Place of Work Super-PUMA

V	00000	.	Not in universe (Under 16 years or ESR not 1 and not 4)
V	00001	.	Did not work in the United States or in Puerto Rico
R	00100..72100	.	Assigned Place of Work Super-PUMA (See Appendix L)

D FILLER	2	171	172

D POWAREA1	2	173	174

T Place of Work Super-PUMA Relationship to MA (See page 3-2)

V	00	.	Not in universe (Under 16 years or ESR not 1 and not 4)
V	01	.	Did not work in the United States or in Puerto Rico
V	11	.	Contains only metropolitan territory inside central city (MSA part of fully-identified MSA)
V	12	.	Contains only metropolitan territory outside central city (MSA part of fully-identified MSA)
V	13	.	Contains only metropolitan territory both inside and outside central city (MSA part of fully-identified MSA)
V	14	.	Contains an entire MSA (and no other territory)
V	21	.	Contains only metropolitan territory inside central city (MSA part of partially-identified MSA)
V	22	.	Contains only metropolitan territory outside central city (MSA part of partially-identified MSA)
V	23	.	Contains only metropolitan territory both inside and outside central city (MSA part of partially-identified MSA)
V	31	.	Contains only metropolitan territory inside central city (PMSA part of fully-identified PMSA and fully-identified CMSA)

PERSON RECORD—Con.

V			32	. Contains only metropolitan territory outside central city (PMSA part of fully-identified PMSA and fully-identified CMSA)
V			33	. Contains only metropolitan territory both inside and outside central city (PMSA part of fully-identified PMSA and fully- identified CMSA)
V			34	. Contains an entire PMSA (and no other territory) (PMSA belongs to a fully-identified CMSA)
V			41	. Contains only metropolitan territory inside central city (PMSA part of fully-identified PMSA and partially-identified CMSA)
V			42	. Contains only metropolitan territory outside central city (PMSA part of fully-identified PMSA and partially-identified CMSA)
V			43	. Contains only metropolitan territory both inside and outside central city (PMSA part of fully-identified PMSA and partially-identified CMSA)
V			44	. Contains an entire PMSA (and no other territory) (PMSA belongs to a partially-identified CMSA)
V			51	. Contains only metropolitan territory inside central city (PMSA part of partially-identified PMSA and partially- identified CMSA)
V			52	. Contains only metropolitan territory outside central city (PMSA part of partially-identified PMSA and partially- identified CMSA)
V			53	. Contains only metropolitan territory both inside and outside central city (PMSA part of partially-identified PMSA and partially-identified CMSA)
V			70	. Contains both metropolitan and nonmetropolitan territory
V			80	. Contains only metropolitan territory in two or more partial and/or entire MSAs/PMSAs/CMSAs
V			90	. Contains only nonmetropolitan territory
D FILLER	4		175	178
D POWCMA1	4		179	182
T Place of Work MA: MSA/CMSA for Place of Work Super-PUMA				
V		0000		. Not in universe (Under 16 years, not in labor force, unemployed, with a job but not a work)
V		0001		. Did not work in the United States or in Puerto Rico
R		0040..9360		. FIPS MSA/CMSA Code
V		9997		. Mixed MSA/CMSA and nonmetropolitan territory
V		9998		. 2 or more partial and/or entire MSAs/CMSAs

V 9999 . Not in metropolitan area

D FILLER 4 183 186

D POWPMA1 4 187 190
T Place of Work MA: MSA/PMSA for Place of Work Super-PUMA
V 0000 . Not in universe (Under 16 years, not in labor force, unemployed, with a job but not a work)
V 0001 . Did not work in the United States or in Puerto Rico
R 0040..9360 . FIPS MSA/PMSA Code
V 9997 . Mixed MSA/PMSA and nonmetropolitan territory
V 9998 . 2 or more partial and/or entire MSAs/PMSAs
V 9999 . Not in metropolitan area

D TRVMNS 2 191 192
T Means of Transportation to Work
V 00 . Not in universe (Under 16 years or ESR not 1 and not 4
V 01 . Car, truck, or van
V 02 . Bus or trolley bus
V 03 . Streetcar or trolley car (público in Puerto Rico)
V 04 . Subway or elevated
V 05 . Railroad
V 06 . Ferryboat
V 07 . Taxicab
V 08 . Motorcycle
V 09 . Bicycle
V 10 . Walked
V 11 . Worked at home
V 12 . Other method

D TRVMNSA 1 193 193
T Means of Transportation to Work Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D CARPOOL 1 194 194
T Vehicle Occupancy
V 0 . Not in universe (Under 16 years, ESR not 1 or 4, TRVMNS not 1)
V 1 . Drove alone
V 2 . 2 people
V 3 . 3 people
V 4 . 4 people
V 5 . 5 or 6 people
V 6 . 7 or more people

D CARPOOLA 1 195 195

T Vehicle Occupancy Allocation Flag
V 0 . Not allocated

V		1	. Allocated
D LVTIME	3	196	198
T Time Leaving for Work			
V		000	. Not in universe (Under 16 years, ESR not 1 or 4, or TRVMNS = 11)
V		001	. 12:00 am to 12:29 am
V		002	. 12:30 am to 12:59 am
V		003	. 1:00 am to 1:29 am
V		004	. 1:30 am to 1:59 am
V		005	. 2:00 am to 2:29 am
V		006	. 2:30 am to 2:59 am
V		007	. 3:00 am to 3:09 am
V		008	. 3:10 am to 3:19 am
V		009	. 3:20 am to 3:29 am
V		010	. 3:30 am to 3:39 am
V		011	. 3:40 am to 3:49 am
V		012	. 3:50 am to 3:59 am
V		013	. 4:00 am to 4:09 am
V		014	. 4:10 am to 4:19 am
V		015	. 4:20 am to 4:29 am
V		016	. 4:30 am to 4:39 am
V		017	. 4:40 am to 4:49 am
V		018	. 4:50 am to 4:59 am
V		019	. 5:00 am to 5:04 am
V		020	. 5:05 am to 5:09 am
V		021	. 5:10 am to 5:14 am
V		022	. 5:15 am to 5:19 am
V		023	. 5:20 am to 5:24 am
V		024	. 5:25 am to 5:29 am
V		025	. 5:30 am to 5:34 am
V		026	. 5:35 am to 5:39 am
V		027	. 5:40 am to 5:44 am
V		028	. 5:45 am to 5:49 am
V		029	. 5:50 am to 5:54 am
V		030	. 5:55 am to 5:59 am
V		031	. 6:00 am to 6:04 am
V		032	. 6:05 am to 6:09 am
V		033	. 6:10 am to 6:14 am
V		034	. 6:15 am to 6:19 am
V		035	. 6:20 am to 6:24 am
V		036	. 6:25 am to 6:29 am
V		037	. 6:30 am to 6:34 am
V		038	. 6:35 am to 6:39 am
V		039	. 6:40 am to 6:44 am
V		040	. 6:45 am to 6:49 am
V		041	. 6:50 am to 6:54 am
V		042	. 6:55 am to 6:59 am
V		043	. 7:00 am to 7:04 am
V		044	. 7:05 am to 7:09 am
V		045	. 7:10 am to 7:14 am
V		046	. 7:15 am to 7:19 am

V	047 . 7:20 am to 7:24 am
V	048 . 7:25 am to 7:29 am
V	049 . 7:30 am to 7:34 am
V	050 . 7:35 am to 7:39 am
V	051 . 7:40 am to 7:44 am
V	052 . 7:45 am to 7:49 am
V	053 . 7:50 am to 7:54 am
V	054 . 7:55 am to 7:59 am
V	055 . 8:00 am to 8:04 am
V	056 . 8:05 am to 8:09 am
V	057 . 8:10 am to 8:14 am
V	058 . 8:15 am to 8:19 am
V	059 . 8:20 am to 8:24 am
V	060 . 8:25 am to 8:29 am
V	061 . 8:30 am to 8:34 am
V	062 . 8:35 am to 8:39 am
V	063 . 8:40 am to 8:44 am
V	064 . 8:45 am to 8:49 am
V	065 . 8:50 am to 8:54 am
V	066 . 8:55 am to 8:59 am
V	067 . 9:00 am to 9:04 am
V	068 . 9:05 am to 9:09 am
V	069 . 9:10 am to 9:14 am
V	070 . 9:15 am to 9:19 am
V	071 . 9:20 am to 9:24 am
V	072 . 9:25 am to 9:29 am
V	073 . 9:30 am to 9:34 am
V	074 . 9:35 am to 9:39 am
V	075 . 9:40 am to 9:44 am
V	076 . 9:45 am to 9:49 am
V	077 . 9:50 am to 9:54 am
V	078 . 9:55 am to 9:59 am
V	079 . 10:00 am to 10:04 am
V	080 . 10:05 am to 10:09 am
V	081 . 10:10 am to 10:14 am
V	082 . 10:15 am to 10:19 am
V	083 . 10:20 am to 10:24 am
V	084 . 10:25 am to 10:29 am
V	085 . 10:30 am to 10:34 am
V	086 . 10:35 am to 10:39 am
V	087 . 10:40 am to 10:44 am
V	088 . 10:45 am to 10:49 am
V	089 . 10:50 am to 10:54 am
V	090 . 10:55 am to 10:59 am
V	091 . 11:00 am to 11:09 am
V	092 . 11:10 am to 11:19 am
V	093 .11:20 am to 11:29 am
V	094 . 11:30 am to 11:39 am
V	095 . 1:40 am to 11:49 am
V	096 . 11:50 am to 11:59 am
V	097 . 12:00 pm to 12:09 pm
V	098 . 12:10 pm to 12:19 pm

V	099 . 12:20 pm to 12:29 pm
V	100 . 12:30 pm to 12:39 pm
V	101 . 12:40 pm to 12:49 pm
V	102 . 12:50 pm to 12:59 pm
V	103 . 1:00 pm to 1:09 pm
V	104 . 1:10 pm to 1:19 pm
V	105 . 1:20 pm to 1:29 pm
V	106 . 1:30 pm to 1:39 pm
V	107 . 1:40 pm to 1:49 pm
V	108 . 1:50 pm to 1:59 pm
V	109 . 2:00 pm to 2:09 pm
V	110 . 2:10 pm to 2:19 pm
V	111 . 2:20 pm to 2:29 pm
V	112 . 2:30 pm to 2:39 pm
V	113 . 2:40 pm to 2:49 pm
V	114 . 2:50 pm to 2:59 pm
V	115 . 3:00 pm to 3:09 pm
V	116 . 3:10 pm to 3:19 pm
V	117 . 3:20:pm to 3:29 pm
V	118 . 3:30 pm to 3:39 pm
V	119 . 3:40 pm to 3:49 pm
V	120 . 3:50 pm to 3:59 pm
V	121 . 4:00 pm to 4:09 pm
V	122 . 4:10 pm to 4:19 pm
V	123 . 4:20 pm to 4:29 pm
V	124 . 4:30 pm to 4:39 pm
V	125 . 4:40 pm to 4:49 pm
V	126 . 4:50 pm to 4:59 pm
V	127 . 5:00 pm to 5:09 pm
V	128 . 5:10 pm to 5:19 pm
V	129 . 5:20 pm to 5:29 pm
V	130 . 5:30 pm to 5:39 pm
V	131 . 5:40 pm to 5:49 pm
V	132 . 5:50 pm to 5:59 pm
V	133 . 6:00 pm to 6:09 pm
V	134 . 6:10 pm to 6:19 pm
V	135 . 6:20 pm to 6:29 pm
V	136 . 6:30 pm to 6:39 pm
V	137 . 6:40 pm to 6:49 pm
V	138 . 6:50 pm to 6:59 pm
V	139 . 7:00 pm to 7:09 pm
V	140 . 7:10 pm to 7:19 pm
V	141 . 7:20 pm to 7:29 pm
V	142 . 7:30 pm to 7:39 pm
V	143 . 7:40 pm to 7:49 pm
V	144 . 7:50 pm to 7:59 pm
V	145 . 8:00 pm to 8:09 pm
V	146 . 8:10 pm to 8:19 pm
V	147 . 8:20 pm to 8:29 pm
V	148 . 8:30 pm to 8:39 pm
V	149 . 8:40 pm to 8:49 pm
V	150 . 8:50 pm to 8:59 pm

V 151 . 9:00 pm to 9:09 pm
V 152 . 9:10 pm to 9:19 pm
V 153 . 9:20 pm to 9:29 pm
V 154 . 9:30 pm to 9:39 pm
V 155 . 9:40 pm to 9:49 pm
V 156 . 9:50 pm to 9:59 pm
V 157 . 10:00 pm to 10:09 pm
V 158 . 10:10 pm to 10:19 pm
V 159 . 10:20 pm to 10:29 pm
V 160 . 10:30 pm to 10:39 pm
V 161 . 10:40 pm to 10:49 pm
V 162 . 10:50 pm to 10:59 pm
V 163 . 11:00 pm to 11:09 pm
V 164 . 11:10 pm to 11:19 pm
V 165 . 11:20 pm to 11:29 pm
V 166 . 11:30 pm to 11:39 pm
V 167 . 11:40 pm to 11:49 pm
V 168 . 11:50 pm to 11:59 pm

D LVTIMEA 1 199 199
T Time Leaving for Work Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D TRVTIME 3 200 202
T Travel Time to Work
V 000 . Not in universe (Under 16 years, ESR not 1 and not 4, or TRVMNS = 11)
R 001..119 . 1 to 119 Minutes
V 120 . topcode
V 120+ . State mean of topcoded values

D TRVTIMEA 1 203 203
T Travel Time to Work Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D LAYOFF 1 204 204
T Layoff from Job
V 0 . Not in universe (Under 16 years, ESR = 0, 1 or 4)
V 1 . Yes, on layoff
V 2 . No
V 3 . Not reported

D ABSENT 1 205 205
T Absent from Work

V 0 . Not in universe (Under 16 years, ESR = 0, 1 or 4)
V 1 . Yes, temporarily absent from work
V 2 . No
V 3 . Not reported

D RECALL 1 206 206

T Return-to-Work Recall

V	0	.	Not in universe (Under 16 years, ESR = 0, 1 or 4)
V	1	.	Yes
V	2	.	No
V	3	.	Not reported

D LOOKWRK 1 207 207

T Looking for Work

V	0	.	Not in universe (Under 16 years, ESR = 0, 1 or 4)
V	1	.	Yes, looking for work in last 4 weeks
V	2	.	No
V	3	.	Not reported

D BACKWRK 1 208 208

T Back to Work

V	0	.	Not in universe (Under 16 years, ESR = 0, 1 or 4)
V	1	.	Yes, could have gone to work
V	2	.	No, because of temporary illness
V	3	.	No, because of other reasons (in school, etc.)
V	4	.	Not reported

D LASTWRK 1 209 209

T Year Last Worked

V	0	.	Not in universe (Under 16 years)
V	1	.	1995 to 2000
V	2	.	1994 or earlier, or never worked

D LASTWRKA 1 210 210

T Year Last Worked Allocation Flag

V	0	.	Not allocated
V	1	.	Allocated

D INDCEN 3 211 213

T Industry (Census)

V	000	.	Not in universe (Under 16 years or LASTWRK = 2)
R	001..997	.	Legal census 2000 industry code

D INDCENA 1 214 214

T Industry (Census) Allocation Flag

V	0	.	Not allocated
V	1	.	Allocated

D INDNAICS 8 215 222

T Industry (NAICS)

V	00000000	.	Not in universe (Under 16 years or LASTWRK = 2)
R	10000000..99999999	.	Industry NAICS code

D OCCCEN1 3 223 225

T Occupation (Census) for 1% file

V 000 . Not in universe (Under 16 years or LAST-WRK = 2)
R 001..997 . Legal census occupation code

D OCCCENA 1 226 226
T Occupation (Census) Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D OCCSOC1 7 227 233
T Occupation (SOC) for 1% file
V 00–0000 . Not in universe (Under 16 years or LAST-WRK = 2)
R 10–0000..99–9999 . Occupation SOC code

D CLWKR 1 234 234
T Class of Worker
V 0 . Not in universe (Under 16 years or LAST-WRK = 2)
V 1 . Employee of private for-profit company
V 2 . Employee of private not-for- profit company
V 3 . Employee of local government
V 4 . Employee of state government
V 5 . Employee of federal government
V 6 . Self-employed in unincorporated business or company
V 7 . Self-employed in incorporated business or company
V 8 . Unpaid family worker

D CLWKRA 1 235 235
T Class of Worker Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D WRKLYR 1 236 236
T Worked in 1999
V 0 . Not in universe (Under 16 years)
V 1 . Yes
V 2 . No

D WRKLYRA 1 237 237
T Worked in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D WEEKS 2 238 239
T Weeks Worked in 1999
V 00 . Not in universe (Under 16 years or WRKLYR = 0 or 2)

R 01..52 . 1 to 52 weeks

D WEEKSA 1 240 240
T Weeks Worked in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

PERSON RECORD—Con.

D HOURS 2 241 242
T Hours Per Week in 1999
V 00 . Not in universe (Under 16 years or WRKLYR = 0 or 2)
R 01..99 . 1 to 99 hours worked per week

D HOURSA 1 243 243
T Hours Per Week in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D INCWS 6 244 249
T Wage/Salary Income in 1999
V blank . Not in universe (Under 15 years)
V 000000 . No/none
R 000001..174999 . $1 to $174,999
V 175000 . Topcode
V 175000+ . State mean of topcoded values

D INCWSA 1 250 250
T Wage/Salary Income in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D INCSE 6 251 256
T Self-Employment Income in 1999
V blank . Not in universe (Under 15 years)
V –09999 . Loss of $9,999 or more
R –00001..09998 . Loss of $1 to $9,998
V 000000 . No/none
V 000001 . $1 or break even
R 000002..125999 . $2 to $125,999
V 126000 . Topcode
V 126000+ . State mean of topcoded values

D INCSEA 1 257 257
T Self-Employment Income in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D INCINT 6 258 263
T Interest Income in 1999
V blank . Not in universe (Under 15 years)
V –09999 . Loss of $9,999 or more
R –00001..09998 . Loss of $1 to $9,998
V 000000 . No/none
V 000001 . $1 or break even
R 000002..049999 . $2 to $49,999

V 050000 . Topcode
V 050000+ . State mean of topcoded values

D INCINTA 1 264 264
T Interest Income in 1999 Allocation Flag
V 0 . Not allocated

V 1 . Allocated

D INCSS 5 265 269
T Social Security Income in 1999
V blank . Not in universe (Under 15 years)
V 00000 . No/none
R 00001..17999 . $1 to $17,999
V 18000 . Topcode
V 18000+ . State mean of topcoded values

D INCSSA 1 270 270
T Social Security Income in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D INCSSI 5 271 275
T Supplemental Security Income in 1999
V blank . Not in universe (Under 15 years)
V 00000 . No/none
R 00001..13799 . $1 to $13,799
V 13800 . Topcode
V 13800+ . State mean of topcoded values

D INCSSIA 1 276 276
T Supplemental Security Income in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D INCPA 5 277 281
T Public Assistance Income in 1999
V blank . Not in universe (Under 15 years)
V 00000 . No/none
R 00001..12299 . $1 to $12,299
V 12300 . Topcode
V 12300+ . State mean of topcoded values

D INCPAA 1 282 282
T Public Assistance Income in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D INCRET 6 283 288
T Retirement Income in 1999
V blank . Not in universe (Under 15 years)
V 000000 . No/none
R 000001..051999 . $1 to $51,999
V 052000 . Topcode
V 052000+ . State mean of topcoded values

D INCRETA 1 289 289
T Retirement Income in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D INCOTH 6 290 295
T Other Income in 1999

V blank . Not in universe (Under 15 years)
V 000000 . No/none
R 000001..037799 . $1 to $37,799
V 037800 . Topcode
V 037800+ . State mean of topcoded values

D INCOTHA 1 296 296
T Other Income in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D INCTOT 7 297 303
T Person's Total Income in 1999
V blank . Not in universe (Under 15 years)
V –019998 . Loss of $19,998 or more
R –000001..019997 . Loss of $1 to $19,997
V 0000000 . No/none
V 0000001 . $1 or break even
R 0000002..4999999 . $2 to $4,999,999
V 5000000 . $5,000,000 or more

D INCTOTA 1 304 304
T Person's Total Income in 1999 Allocation Flag
V 0 . Not allocated
V 1 . Allocated

D EARNS 7 305 311
T Person's Total Earnings in 1999
V blank . Not in universe (Under 15 years)
V –009999 . Loss of $9,999 or more
R –000001..–009998 . Loss of $1 to $9,998
V 0000000 . No/none
V 0000001 . $1 or break even
R 0000002..0301999 . $2 to $309,999
V 0310000 . $310,000 or more

D POVERTY 3 312 314
T Person's Poverty Status
V 000 . Not in universe (Institutional GQ; in college dormitories or military quarters; unrelated children under 15 years)
V 001 . Less than 1.0%
R 002..500 . 1.0% to 499.9%
V 501 . 500% or more

Chapter 7.
User Updates

User updates supply data users with additional or corrected information that becomes available after the technical documentation and files are prepared. They are issued as Data Notes, Geography Notes, and Technical Documentation Notes in a numbered series and are available in portable document format (PDF) on our Web site at http://www.census.gov.

If you print the documentation, please file the user updates behind this page. If there are technical documentation replacement pages, they should be filed in their proper location and the original pages destroyed.

Public Use Microdata Sample Files
Data Note 1

TECHNICAL NOTE ON SAME-SEX UNMARRIED PARTNER DATA FROM THE 1990 AND 2000 CENSUSES

The release of data from the 2000 census has brought with it a number of analyses documenting change that has occurred since the last census was conducted in 1990. While many of the variables and processes between the two censuses are comparable, some are not, and direct comparison of some estimates may lead to misleading conclusions. This note discusses one such topic, that of "unmarried partners," and advises that for some analyses—those involving unmarried same-sex partners—direct comparison of the 1990 and 2000 estimates is not substantively valid.

The household relationship item in both the 1990 and the 2000 censuses offered many ways of identifying how other people in the household were related to the householder (the person in whose name the house is owned or rented). Categories included spouse, child or other relative of the householder, housemate/roommate, roomer/boarder, and unmarried partner. In all circumstances, the respondent was asked to choose the category that best represented how other members of the household were related to the householder.

In both censuses, the "spouse" and "unmarried partner" response categories were defined and asked the same way. However, there were important differences in data processing that mean that some of the data are not comparable, limiting the usefulness of comparisons of the number of samesex unmarried partners between these two censuses.

In both censuses, if a person was identified as the "spouse" of the householder and was the same sex as the householder, the "spouse" response was flagged for further review and allocation, that is, assignment of a value other than that originally reported, based on other data on the form. In 1990, the edit and allocation procedures did not allow same-sex "spouse" combinations to occur, thus resulting in the allocation of one of these two items in order to achieve editing consistency among the responses.

Processing steps were changed for Census 2000 for households that contained same-sex "spouses." If the person with the "spouse" category was the same sex as the householder and if neither person had their sex previously allocated, a relationship response of "spouse" was allocated as an "unmarried partner" response. Data allocation is a standard statistical practice that is followed by most data collection agencies. Data on the relationship item (as other items) were subject to allocation in the census, as they are in virtually all Census Bureau surveys.

Two principal factors affected our decision to take this approach for Census 2000.

1. Marriage Act (H.R. 3396) passed by the 104th Congress. This act instructs all federal agencies only to recognize opposite-sex marriages for the purposes of enacting any agency programs. In order for Census Bureau data to be consistent with this act and the data requirements of other federal agencies, same-sex spouse responses were invalidated. The legislation defines marriage and spouse as follows:

   "In determining the meaning of any Act of Congress, or of any ruling, regulation or interpretation of the various administrative bureaus and agencies of the United States, the word 'marriage' means only a legal union between one man and one woman as husband and wife, and the word 'spouse' refers only to a person of the opposite sex who is a husband or wife." In order for the Census Bureau to be consistent with this act and the data requirements of other federal agencies, same-sex "spouse" responses were invalidated.

2. The second factor took into consideration that couples in long term same-sex relationships may consider themselves as "married partners" and thus respond as such on the census form. In addition, at the time of writing the editing program for Census 2000, there were several challenges in the courts concerning the legality of same-sex marriages. Clearly, we could not ignore the fact that same-sex spouse responses were going to be recorded during Census 2000. In light of these social and legal aspects and the lack of a key variable in the statistical allocation routine (marital status) the assignment of same-sex "married" couples to the same-sex "unmarried partner" category was the procedure chosen for the editing process. We were adverse to a randomized allocation of these responses after people had clearly marked a close relationship preference on the census form.

   As a result of these changes in the processing routine, estimates of same-sex unmarried partners are not comparable between the 1990 and 2000 census. We believe 2000 census estimates of this category are better estimates than those produced in 1990. It should also be noted that estimates of opposite-sex unmarried partners, however, were not affected by these editing procedures and changes and are comparable between the two censuses.

For further information on this topic, please contact the Fertility and Family Statistics Branch on 301-763-2416.

March 2003

Public Use Microdata Sample Files Technical Documentation Note 1

The definition for some variables in Chapter 6 (Data Dictionary) may not be easily found in Appendix B (Definitions of Subject Characteristics). Below is a list of the subjects that may be difficult to locate and the appropriate topic to refer to in Appendix B.

Housing Record Type Variable Description	**Appendix B Topic**
Size of building	See Units in Structure
Year building built	See Year Structure Built
Cost of electricity (annual)	See Utilities
Cost of gas (annual)	See Utilities
Cost of water and sewer (annual)	See Utilities
Cost of oil, kerosene, or wood (annual)	See Utilities
Number of people 65 years and over in household	See Household Type and Relationship
Number of people under 18 years in household	See Household Type and Relationship
Number of people in family	See Household Type and Relationship
Number of own children under 18 years in household	See Household Type and Relationship
Number of related children under 18 years in household	See Household Type and Relationship
Presence of subfamily in household	See Household Type and Relationship
Presence and age of own children under 18 years	See Household Type and Relationship
Presence and age of related children under 18 years	See Household Type and Relationship
Specified value indicator	See Value
Family type and employment status	See Household Type and Relationship and see Employment Type
Family type and work experience of householder	See Household Type and Relationship and see Work Status in 1999

Person Record Type Variable Description	**Appendix B Topic**
Able to go out disability	See Disability Status
Military service	See Veteran Status
Years of military service	See Veteran Status
Vehicle occupancy	See Journey to Work
Layoff from job	See Employment Status
Absent from work	See Employment Status
Return-to-work recall	See Employment Status
Looking for work	See Employment Status
Back to work	See Employment Status
Hours per week in 1999	See Work Status in 1999

Appendix A.
Census 2000 Geographic Terms and Concepts

CONTENTS

	Page
Alaska Native Regional Corporation (ANRC) (See American Indian Area, Alaska Native Area, Hawaiian Home Land)	A–4
Alaska Native Village (ANV) (See American Indian Area, Alaska Native Area, Hawaiian Home Land)	A–5
Alaska Native Village Statistical Area (ANVSA) (See American Indian Area, Alaska Native Area, Hawaiian Home Land)	A–5
American Indian Area, Alaska Native Area, Hawaiian Home Land	A–4
American Indian Off-Reservation Trust Land (See American Indian Area, Alaska Native Area, Hawaiian Home Land)	A–6
American Indian Reservation (See American Indian Area, Alaska Native Area, Hawaiian Home Land)	A–5
American Indian Tribal Subdivision (See American Indian Area, Alaska Native Area, Hawaiian Home Land)	A–6
American Samoa (See Island Areas of the United States)	A–16
Area Measurement	A–8
Barrio (See Puerto Rico)	A–20
Barrio-Pueblo (See Puerto Rico)	A–20
Block (See Census Block)	A–10
Block Group (BG)	A–8
Borough (See County (or Statistically Equivalent Entity), see County Subdivision, see Place)	A–13
Boundary Changes	A–9
Census Area (See County (or Statistically Equivalent Entity))	A–13
Census Block	A–10
Census Code (See Geographic Code)	A–15
Census County Division (CCD) (See County Subdivision)	A–13
Census Designated Place (CDP) (See Place)	A–18
Census Division (See also Census Region)	A–11
Census Geographic Code (See Geographic Code)	A–15
Census Region (See also Census Division)	A–11
Census Subarea (See County Subdivision)	A–13
Census Tract	A–11
Central City (See Metropolitan Area)	A–16
Central Place (See Urban and Rural)	A–22
City (See Place)	A–18
Commonwealth of the Northern Mariana Islands (See Island Areas of the United States)	A–16
Comparability (See Boundary Changes)	A–9
Comunidad (See Puerto Rico)	A–20
Congressional District (CD)	A–12
Consolidated Metropolitan Statistical Area (CMSA) (See Metropolitan Area)	A–16
Consolidated City (See Place)	A–18
County (or Statistically Equivalent Entity)	A–13
County Subdivision	A–13
District (See County (or Statistically Equivalent Entity))	A–13
Division (See Census Division)	A–11
Extended City (See Urban and Rural)	A–22
Extended Place (See Urban and Rural)	A–23
Federal Information Processing Standards (FIPS) Code (See Geographic Code)	A–15
Geographic Code	A–15
Geographic Hierarchy (See Introduction—Geographic Presentation of Data)	A–3

Geographic Presentation (See Introduction—Geographic Presentation of Data) A–3
Guam (See Island Areas of the United States) A–16
Hawaiian Home Land (HHL) (See American Indian Area, Alaska Native Area, Hawaiian Home Land) A–6
Hierarchical Presentation (See Introduction—Geographic Presentation of Data) A–3
Incorporated Place (See Place, see County Subdivision) A–19
Independent City (See County (or Statistically Equivalent Entity)) A–13
Internal Point A–15
Introduction—Geographic Presentation of Data A–3
Inventory Presentation (See Introduction—Geographic Presentation of Data) A–3
Island (See County (or Statistically Equivalent Entity)) A–13
Island Areas of the United States A–16
Joint Use Area (See American Indian Area, Alaska Native Area, Hawaiian Home Land) A–4
Land Area (See Area Measurement) A–8
Latitude (See Internal Point) A–15
Longitude (See Internal Point) A–15
Metropolitan Area (MA) A–16
Metropolitan Area Title and Code (See Metropolitan Area) A–17
Metropolitan Statistical Area (MSA) (See Metropolitan Area) A–17
Minor Civil Division (MCD) (See County Subdivision) A–14
Municipality (See County (or Statistically Equivalent Entity)) A–13
Municipio (See Puerto Rico) A–20
New England County Metropolitan Area (NECMA) (See Metropolitan Area) A–17
Off-Reservation Trust Land (See American Indian Area, Alaska Native Area, Hawaiian Home Land) A–6
Oklahoma Tribal Statistical Area (OTSA) (See American Indian Area, Alaska Native Area, Hawaiian Home Land) A–7
Outlying Areas (See Island Areas of the United States) A–16
Parish (See County) A–13
Place A–18
Place Within Consolidated City (See Place) A–18
Population or Housing Unit Density A–19
Precinct (See Voting District) A–24
Primary Metropolitan Statistical Area (PMSA) (See Metropolitan Area) A–16
Public Use Microdata Area (PUMA) A–19
Public Use Microdata Sample (PUMS) File (See Public Use Microdata Area) A–19
Puerto Rico A–20
Region (See Census Region) A–11
Rural (See Urban and Rural) A–22
School District A–20
State (or Statistically Equivalent Entity) A–21
State Designated American Indian Statistical Area (SDAISA) (See American Indian Area, Alaska Native Area, Hawaiian Home Land) A–7
State Legislative District (SLD) A–21
Subbarrio (See Puerto Rico) A–20
Sub-MCD (See Puerto Rico) A–20
Super-PUMA (See Public Use Microdata Area) A–19
Tabulation Block Group (See Block Group) A–8
TIGER® Database A–21
Town (See County Subdivision, see Place) A–13
Township (See County Subdivision) A–13
Tract (See Census Tract) A–11
Traffic Analysis Zone (TAZ) A–21
Tribal Block Group A–22
Tribal Census Tract A–22
Tribal Designated Statistical Area (TDSA) (See American Indian Area, Alaska Native Area, Hawaiian Home Land) A–7
Tribal Jurisdiction Statistical Area (TJSA) (See American Indian Area, Alaska Native Area, Hawaiian Home Land) A–7
Trust Land (See American Indian Area, Alaska Native Area, Hawaiian Home Land) A–4
United States A–22

United States Postal Service (USPS) Code (See Geographic Code) A–15
Unorganized Territory (See County Subdivision) A–14
Urban (See Urban and Rural) A–22
Urban and Rural A–22
Urban Cluster (UC) (See Urban and Rural) A–23
Urban Cluster Central Place (See Urban and Rural) A–23
Urban Cluster Title and Code (See Urban and Rural) A–22
Urban Growth Area (UGA) A–23
Urban Growth Boundary (See Urban Growth Area) A–23
Urbanized Area (UA) (See Urban and Rural) A–22
Urbanized Area Central Place (See Urban and Rural) A–23
Urbanized Area Title and Code (See Urban and Rural) A–23
Village (See Place) A–18
Virgin Islands of the United States (See Island Areas of the United States) A–16
Voting District (VTD) A–24
Water Area (See Area Measurement) A–8
ZIP Code® (See ZIP Code® Tabulation Area) A–24
ZIP Code® Tabulation Area (ZCTA™) A–24
Zona Urbana (See Puerto Rico) A–20

INTRODUCTION—GEOGRAPHIC PRESENTATION OF DATA

In decennial census data products, geographic entities usually are presented in an hierarchical arrangement or as an inventory listing.

Hierarchical Presentation

An hierarchical geographic presentation shows the geographic entities in a superior/subordinate structure. 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 computer-readable media in the geographic coverage portion of the abstract in the technical documentation. An example of hierarchical presentation is the "standard census geographic hierarchy": census block, within block group, within census tract, 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 (or part)
                Block group (or part)
                  Census block

Figure A–1, which is a diagram of the geographic hierarchy, presents this information as a series of "nesting" relationships. For example, a line joining the lower-level entity "place" and the higher-level entity "state" means that a place cannot cross a state boundary; a line linking "census tract" and "county" means that a census tract cannot cross a county line; and so forth.

Inventory Presentation

An inventory presentation of geographic entities is one in which all entities of the same type are shown in alphabetical, code, or geographic 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, 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

American Indian/Alaska Native Area/Hawaiian Home Land (AIANA/HHL) Entities

Exceptions to the standard hierarchical presentation occur in the case of some American Indian/Alaska Native area (AIANA) entities, which do not necessarily "nest" within states and counties. For instance, the following American Indian entities can cross state lines: federally recognized American Indian reservations, off-reservation trust lands, tribal subdivisions, and tribal designated statistical areas. National summary data for American Indian reservations may be presented as an alphabetical listing of reservation names followed by the state portions of each reservation. Also, a census tract or block group delineated by American Indian tribal authorities may be located in more than one state or county (see CENSUS TRACT, TRIBAL BLOCK GROUP, and TRIBAL CENSUS TRACT) for the purpose of presenting census data in the American Indian/Alaska Native area/Hawaiian home land (AIANA/HHL) hierarchy.

The diagram in Figure A–2 shows geographic relationships among geographic entities in the AIANA/HHL hierarchy. It does not show the geographic levels "county," "county subdivision," and "place" because AIANA/HHL entities do not necessarily nest within them.

The definitions below are for geographic entities and concepts that the U.S. Census Bureau includes in its standard data products. Not all entities and concepts are shown in any one data product.

AMERICAN INDIAN AREA, ALASKA NATIVE AREA, HAWAIIAN HOME LAND

There are both legal and statistical American Indian, Alaska Native, and native Hawaiian entities for which the U.S. Census Bureau provides data for Census 2000. The legal entities consist of federally recognized American Indian reservations and off-reservation trust land areas, the tribal subdivisions that can divide these entities, state recognized American Indian reservations, Alaska Native Regional Corporations, and Hawaiian home lands. The statistical entities are Alaska Native village statistical areas, Oklahoma tribal statistical areas, tribal designated statistical areas, and state designated American Indian statistical areas. Tribal subdivisions can exist within the statistical Oklahoma tribal statistical areas.

In all cases, these areas are mutually exclusive in that no American Indian, Alaska Native, or Hawaiian home land can overlap another tribal entity, except for tribal subdivisions, which subdivide some American Indian entities, and Alaska Native village statistical areas, which exist within Alaska Native Regional Corporations. In some cases where more than one tribe claims jurisdiction over an area, the U.S. Census Bureau creates a joint use area as a separate entity to define this area of dual claims. The following provides more detail about each of the various American Indian areas, Alaska Native areas, and Hawaiian home lands.

Alaska Native Regional Corporation (ANRC)

Alaska Native Regional Corporations (ANRCs) are corporate entities established to conduct both business and nonprofit affairs of Alaska Natives pursuant to the Alaska Native Claims Settlement Act of 1972 (Public Law 92-203). Twelve ANRCs are geographic entities that cover most of the state of Alaska (the Annette Island Reserve–an American Indian reservation–is excluded from any ANRC). (A thirteenth ANRC represents Alaska Natives who do not live in Alaska and do not identify with any of the 12 corporations; the U.S. Census Bureau does not provide data for this ANRC because it has no geographic extent.) The boundaries of ANRCs have been legally established.

The U.S. Census Bureau offers representatives of the 12 nonprofit ANRCs the opportunity to review and update the ANRC boundaries. The U.S. Census Bureau first provided data for ANRCs for the 1990 census.

Each ANRC is assigned a five-digit Federal Information Processing Standards (FIPS) code, which is assigned in alphabetical order by ANRC name.

Alaska Native Village Statistical Area (ANVSA)

Alaska Native village statistical areas (ANVSAs) are statistical entities that represent the densely settled portion of Alaska Native villages (ANVs), which constitute associations, bands, clans, communities, groups, tribes or villages, recognized pursuant to the Alaska Native Claims Settlement Act of 1972 (Public Law 92-203). ANVSAs are reviewed and delineated by officials of the ANV (or officials of the Alaska Native Regional Corporation (ANRC) in which the ANV is located if no ANV official chooses to participate in the delineation process) solely for data presentation purposes.

An ANVSA may not overlap the boundary of another ANVSA, an American Indian reservation, or a tribal designated statistical area. The U.S. Census Bureau first provided data for ANVSAs for the 1990 census.

Each ANVSA is assigned a national four-digit census code ranging from 6000 through 7999. Each ANVSA also is assigned a state-based five-digit Federal Information Processing Standards (FIPS) code. Both the census and FIPS codes are assigned in alphabetical order by ANVSA name.

American Indian Reservation

Federal American Indian reservations are areas that have been set aside by the United States for the use of tribes, the exterior boundaries of which are more particularly defined in the final tribal treaties, agreements, executive orders, federal statutes, secretarial orders, or judicial determinations. The U.S. Census Bureau recognizes federal reservations as territory over which American Indian tribes have primary governmental authority. These entities are known as colonies, communities, pueblos, rancherias, ranches, reservations, reserves, villages, Indian communities, and Indian villages. The Bureau of Indian Affairs maintains a list of federally recognized tribal governments. The U.S. Census Bureau contacts representatives of American Indian tribal governments to identify the boundaries for federal reservations.

Some state governments have established reservations for tribes recognized by the state. A governor-appointed state liaison provides the names and boundaries for state recognized American Indian reservations to the U.S. Census Bureau. The names of these reservations are followed by "(State)" in census data presentations.

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 portions of the reservations in a given state are shown in the data products for that state. Lands that are administered jointly and/or are claimed by two tribes, whether federally or state recognized, are called "joint use areas," and are treated as if they are separate American Indian reservations for data presentation purposes. The entire reservations are shown in data products for the United States. The U.S. Census Bureau first provided data for American Indian reservations in the 1970 census.

Each federal American Indian reservation is assigned a four-digit census code ranging from 0001 through 4999. These census codes are assigned in alphabetical order of American Indian reservation names nationwide, except that joint use areas appear at the end of the code range. Each state American Indian reservation is assigned a four-digit census code ranging from 9000 through 9499. Each American Indian reservation also is assigned a five-digit Federal Information Processing Standards (FIPS) code; because FIPS codes are assigned in alphabetical sequence within each state, the FIPS code is different in each state for reservations that include territory in more than one state.

American Indian Off-Reservation Trust Land

Trust lands are areas for which the United States holds title in trust for the benefit of a tribe (tribal trust land) or for an individual American Indian (individual trust land). Trust lands can be alienated or encumbered only by the owner with the approval of the Secretary of the Interior or his/her authorized representative. Trust lands may be located on or off of a reservation. The U.S. Census Bureau recognizes and tabulates data for reservations and off-reservation trust lands because American Indian tribes have primary governmental authority over these lands. Primary tribal governmental authority generally is not attached to tribal lands located off the reservation until the lands are placed in trust.

In the U.S. Census Bureau's data tabulations, off-reservation trust lands always are associated with a specific federally recognized reservation and/or tribal government. Such trust lands may be located in more than one state. Only the portions of off-reservation trust lands in a given state are shown in the data products for that state; all off-reservation trust lands associated with a reservation or tribe are shown in data products for the United States. The U.S. Census Bureau first provided trust land data for off-reservation tribal trust lands in the 1980 census; in 1990, the trust land data included both tribal and individual trust lands. The U.S. Census Bureau does not identify restricted fee land or land in fee simple status as a specific geographic category.

In decennial census data tabulations, off-reservation trust lands are assigned a four-digit census code and a five-digit Federal Information Processing Standards (FIPS) code that is the same as that for the reservation with which they are associated. As with reservations, FIPS codes for off-reservation trust lands are unique within state, so they will differ if they extend into more than one state. The FIPS codes for such off-reservation trust lands are the same as those for the associated reservation. In the TIGER/Line® products, a letter code–"T" for tribal and "I" for individual–
identifies off-reservation trust lands. In decennial census data tabulations, a trust land flag uniquely identifies off-reservation trust lands. Printed reports show separate tabulations for all off-reservation trust land areas, but do not provide separate tabulations for the tribal versus individual trust lands. Trust lands associated with tribes that do not have a reservation are presented and coded by tribal name, interspersed alphabetically among the reservation names.

American Indian Tribal Subdivision

American Indian tribal subdivisions are administrative subdivisions of federally recognized American Indian reservations, off-reservation trust lands, or Oklahoma tribal statistical areas (OTSAs), known as areas, chapters, communities, or districts. These entities are internal units of self-government or administration that serve social, cultural, and/or economic purposes for the American Indians on the reservations, off-reservation trust lands, or OTSAs.

The U.S. Census Bureau obtains the boundary and name information for tribal subdivisions from tribal governments. The U.S. Census Bureau first provided data for American Indian tribal subdivisions in the 1980 census when it identified them as "American Indian subreservation areas." It did not provide data for these entities in conjunction with the 1990 census.

Each American Indian tribal subdivision is assigned a three-digit census code that is alphabetically in order and unique within each reservation, associated off-reservation trust land, and OTSA. Each tribal subdivision also is assigned a five-digit Federal Information Processing Standards (FIPS) code. FIPS codes are assigned alphabetically within state; the FIPS codes are different in each state for tribal subdivisions that extend into more than one state.

Hawaiian Home Land (HHL)

Hawaiian home lands (HHLs) are areas held in trust for native Hawaiians by the state of Hawaii, pursuant to the Hawaiian Homes Commission Act of 1920, as amended. The U.S. Census Bureau obtained the names and boundaries of HHLs from state officials. HHLs are a new geographic entity for Census 2000.

Each HHL area is assigned a national four-digit census code ranging from 5000 through 5499 based on the alphabetical sequence of each HHL name. Each HHL also is assigned a five-digit Federal Information Processing Standards (FIPS) code in alphabetical order within the state of Hawaii.

Oklahoma Tribal Statistical Area (OTSA)

Oklahoma tribal statistical areas (OTSAs) are statistical entities identified and delineated by the U.S. Census Bureau in consultation with federally recognized American Indian tribes in Oklahoma that do not currently have a reservation, but once had a reservation in that state. Boundaries of OTSAs will be those of the former reservations in Oklahoma, except where modified by agreements with neighboring tribes for data presentation purposes. OTSAs replace the "tribal jurisdiction statistical areas" of the 1990 census. The U.S. Census Bureau first provided data for the former Oklahoma reservations in conjunction with the 1980 census, when it defined a single all-encompassing geographic entity called the "Historic Areas of Oklahoma (excluding urbanized areas)."

Each OTSA is assigned a national four-digit census code ranging from 5500 through 5999 based on the alphabetical sequence of each OTSA's name, except that the joint use areas appear at the end of the code range. Each OTSA also is assigned a five-digit Federal Information Processing Standards (FIPS) code in alphabetical order in Oklahoma.

State Designated American Indian Statistical Area (SDAISA)

State designated American Indian statistical areas (SDAISAs) are statistical entities for state recognized American Indian tribes that do not have a state recognized land base (reservation). SDAISAs are identified and delineated for the U.S. Census Bureau by a state liaison identified by the governor's office in each state. SDAISAs generally encompass a compact and contiguous area that contains a concentration of people who identify with a state recognized American Indian tribe and in which there is structured or organized tribal activity. A SDAISA may not be located in more than one state unless the tribe is recognized by both states, and it may not include area within an American Indian reservation, off-reservation trust land, Alaska Native village statistical area, tribal designated statistical area (TDSA), or Oklahoma tribal statistical area.

The U.S. Census Bureau established SDAISAs as a new geographic statistical entity for Census 2000, to differentiate between state recognized tribes without a land base and federally recognized tribes without a land base. For the 1990 census, all such tribal entities had been identified as TDSAs.

Each SDAISA is assigned a four-digit census code ranging from 9500 through 9999 in alphabetical sequence of SDAISA names nationwide. Each SDAISA also is assigned a five-digit Federal Information Processing Standards (FIPS) code in alphabetical order within state.

Tribal Designated Statistical Area (TDSA)

Tribal designated statistical areas (TDSAs) are statistical entities identified and delineated for the U.S. Census Bureau by federally recognized American Indian tribes that do not currently have a federally recognized land base (reservation or off-reservation trust land). A TDSA generally encompasses a compact and contiguous area that contains a concentration of people who identify with a federally recognized American Indian tribe and in which there is structured or organized tribal activity. A TDSA may be located in more than one state, and it may not include area within an American Indian reservation, off-reservation trust land, Alaska Native village statistical area, state designated American Indian statistical area (SDAISA), or Oklahoma tribal statistical area.

The U.S. Census Bureau first reported data for TDSAs in conjunction with the 1990 census, when both federally and state recognized tribes could identify and delineate TDSAs. TDSAs now apply only to federally recognized tribes. State recognized tribes without a land base, including those that were TDSAs in 1990, are identified as SDAISAs, a new geographic entity for Census 2000.

Each TDSA is assigned a four-digit census code ranging from 8000 through 8999 in alphabetical sequence of TDSA names nationwide. Each TDSA also is assigned a five-digit Federal Information Processing Standards (FIPS) code in alphabetical order within state; because FIPS codes are assigned within each state, the FIPS code is different in each state for TDSAs that extend into more than one state.

AREA MEASUREMENT

Area measurement data provide the size, in square units (metric and nonmetric) of geographic entities for which the U.S. Census Bureau tabulates and disseminates data. Area is calculated from the specific boundary recorded for each entity in the U.S. Census Bureau's geographic database (see TIGER® database). These area measurements are recorded as whole square meters. (To convert square meters to square kilometers, divide by 1,000,000; to convert square kilometers to square miles, divide by 2.589988; to convert square meters to square miles, divide by 2,589,988.)

The U.S. Census Bureau provides area measurement data for both land area and total water area. The water area figures include inland, coastal, Great Lakes, and territorial water. (For the 1990 census, the U.S. Census Bureau provided area measurements for land and total water; water area for each of the four water classifications was available in the Geographic Identification Code Scheme (GICS) product only.) "Inland water" consists of any lake, reservoir, pond, or similar body of water that is recorded in the U.S. Census Bureau's geographic database. It also includes any river, creek, canal, stream, or similar feature that is recorded in that database 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 classified as "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, territorial, and Great Lakes waters is for data presentation purposes only and does not necessarily reflect their legal definitions.

Land and water area measurements may disagree with the information displayed on U.S. Census Bureau maps and in the TIGER® database 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. Crews-of-vessels entities (see CENSUS TRACT and CENSUS BLOCK) do not encompass territory and, therefore, have no area measurements.

The accuracy of any area measurement data is limited by the accuracy inherent in (1) the location and shape of the various boundary information in the TIGER® database, (2) the location and shapes of the shorelines of water bodies in that database, and (3) rounding affecting the last digit in all operations that compute and/or sum the area measurements.

BLOCK GROUP (BG)

A block group (BG) consists of all census blocks having the same first digit of their four-digit identifying numbers within a census tract. For example, block group 3 (BG 3) within a census tract includes all blocks numbered from 3000 to 3999. BGs generally contain between 600 and 3,000 people, with an optimum size of 1,500 people. BGs on American Indian reservations, off-reservation trust lands, and special places must contain a minimum of 300 people. (Special places include correctional institutions, military installations, college campuses, worker's dormitories, hospitals, nursing homes, and group homes.)

Most BGs were delineated by local participants as part of the U.S. Census Bureau's Participant Statistical Areas Program. The U.S. Census Bureau delineated BGs only where a local, state, or tribal government declined to participate or where the U.S. Census Bureau could not identify a potential local or tribal participant.

BGs never cross the boundaries of states, counties, or statistically equivalent entities, except for a BG delineated by American Indian tribal authorities, and then only when tabulated within the American Indian hierarchy (see TRIBAL BLOCK GROUP). BGs never cross the boundaries of census tracts, but may cross the boundary of any other geographic entity required as a census block boundary (see CENSUS BLOCK).

In decennial census data tabulations, a BG may be split to present data for every unique combination of American Indian area, Alaska Native area, Hawaiian home land, congressional district, county subdivision, place, voting district, or other tabulation entity shown in the data products. For example, if BG 3 is partly in a city and partly outside the city, there are separate tabulated records for each portion of BG 3. BGs are used in tabulating data nationwide, as was done for the 1990 census, for all block-numbered areas in the 1980 census, and for selected areas in the 1970 census. For data presentation purposes, BGs are a substitute for the enumeration districts (EDs) used for reporting data in many parts of the United States for the 1970 and 1980 censuses and in all areas before 1970. Also, BGs are the lowest level of the geographic hierarchy for which the U.S. Census Bureau tabulates and presents sample data.

BOUNDARY CHANGES

Many of the legal and statistical entities for which the U.S. Census Bureau tabulates decennial census data have had boundary changes between the 1990 census and Census 2000; that is, between January 2, 1990, and January 1, 2000. 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 or executive orders, and governmental action placing additional lands in trust.
6. Decisions by federal, state, and local courts.
7. Redistricting for congressional districts or county subdivisions that represent single-member districts for election to a county governing board.

Statistical entity boundaries generally are reviewed by local, state, or tribal governments and can have changes to adjust boundaries to visible features to better define the geographic area each encompasses or to account for shifts and changes in the population distribution within an area.

The historical counts shown for counties, county subdivisions, places, and American Indian, Alaska Native, and Native Hawaiian areas are not updated for such changes, and thus reflect the population and housing units in each entity as delineated at the time of each decennial census. Boundary changes are not reported for some entities, such as census designated places and block groups.

Changes to the boundaries for census tracts and, for the first time, for census blocks are available in relationship files, which are only available in computer-readable form. The census tract relationship files feature the relationship of census tracts/block numbering areas at the time of the 1990 census to census tracts for Census 2000, and vice versa, including partial relationships. For the first time, the census tract relationship files show a measure of the magnitude of change using the proportion of the length of roads and sides of roads contained in partial census tracts. This information can be used to proportion the data for the areas where census tracts have changed.

The census block relationship files, which are available only in computer-readable form, present relationships of the 1990 census and Census 2000 blocks on the basis of whole blocks or part blocks (“P”). The following relationships can be derived:

	1990 census block	2000 census block
One to one	601	1017
One to many	101 P	3028
	101 P	2834
Many to one	410	2554 P
	503	2554 P
Many to many	404	1007 P
	501 P	1007 P
	502 P	1008 P

Block relationship files are available to compare the following sets of census blocks:

1990 tabulation block to 2000 collection block,
2000 collection block to 2000 tabulation block, and
1990 tabulation block to 2000 tabulation block.

Census tract relationship files and block relationship files are not geographic equivalency files. For a true areal comparison between the census tracts/block numbering areas and blocks used for the 1990 census and the census tracts and blocks used for Census 2000 (as well as other geographic areas), it is necessary to use the 2000 TIGER/Line® files. The 2000 TIGER/Line files will contain 1990 and 2000 boundaries for counties and statistically equivalent entities, county subdivisions, places, American Indian areas, Alaska Native village statistical areas, census tracts, census blocks, and by derivation from the census blocks, block groups.

CENSUS BLOCK

Census blocks are 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. Generally, census blocks are small in area; for example, a block bounded by city streets. However, census blocks in sparsely settled areas may contain many square miles of territory.

All territory in the United States, Puerto Rico, and the Island Areas has been assigned block numbers, as was the case for the 1990 census. To improve operational efficiency and geographic identifications, the U.S. Census Bureau has introduced different numbering systems for tabulation blocks used in decennial census data products, and for collection blocks, used in administering the census. (In 1990, there generally was a single numbering system.) Collection block numbers are available only in the TIGER/Line® data products; the U.S. Census Bureau does not tabulate data for collection blocks.

Many tabulation blocks, used in decennial census data products, represent the same geographic area as the collection blocks used in the Census 2000 enumeration process. Where the collection blocks include territory in two or more geographic entities, each unique piece required for data tabulation is identified as a separate tabulation block with a separate block number. It is possible for two or more collection blocks to be combined into a single tabulation block. This situation can occur when a visible feature established as a collection block boundary is deleted during the field update operation. Tabulation blocks do not cross the boundaries of any entity for which the U.S. Census Bureau tabulates data, including American Indian areas, Alaska Native areas, Hawaiian home lands, census tracts, congressional districts, counties, county subdivisions, places, state legislative districts, urban and rural areas, school districts, voting districts, and ZIP Code® tabulation areas. Tabulation blocks also generally do not cross the boundaries of certain landmarks, including military installations, national parks, and national monuments.

Tabulation blocks are identified uniquely within census tract by means of a four-digit number. (The 1990 census block numbers had three digits, with a potential alphabetic suffix.) The Census 2000 collection blocks are numbered uniquely within county (or statistically equivalent entity), and consist of four or five digits. For its Census 2000 data tabulations, the U.S. Census Bureau created a unique set of census block numbers immediately before beginning the tabulation process. These

are the census block numbers seen in the data presentations. For the 1990 census, the U.S. Census Bureau created a separate block with a suffix of "Z" to identify crews-of-vessels population. For Census 2000, crews-of-vessels population is assigned to the land block identified by the U.S. Census Bureau as associated with the home port of the vessel.

Participants in certain U.S. Census Bureau-sponsored programs were able to request that line features in the TIGER® database be held as tabulation block boundaries, provided that these conformed to U.S. Census Bureau criteria. This option was available to participants in the Census 2000 Redistricting Data Program (the Block Boundary Suggestion Project), American Indian and Alaska Native Area Tribal Review (Block Definition Project), and the District of Columbia and the Puerto Rico Block Boundary Definition Project.

The U.S. Census Bureau introduced a different method for identifying the water areas of census blocks. For the 1990 census, water was not uniquely identified within a census block; instead, all water area internal to a block group was given a single block number ending in "99" (for example, in block group 1, all water was identified as block 199). A suffix was added to each water block number where the block existed in more than one tabulation entity within its block group. For Census 2000, water area located completely within the boundary of a single land tabulation block has the same block number as that land block. Water area that touches more than one land block is assigned a unique block number not associated with any adjacent land block. The water block numbers begin with the block group number followed by "999" and proceed in descending order (for example, in block group 3, the numbers assigned to water areas that border multiple land blocks are 3999, 3998, etc.). In some block groups, the numbering of land blocks might use enough of the available numbers to reach beyond the 900 range within the block group. For this reason, and because some land blocks include water (ponds and small lakes), no conclusions about whether a block is all land or all water can be made by looking at the block number. The land/water flag, set at the polygon level in the TIGER® database and shown in TIGER/Line® and statistical data tabulation files, is the only way to know if a block is all water when viewing the computer files. On maps, water areas are shown with a screen symbol.

CENSUS DIVISION

Census divisions are groupings of states and the District of Columbia that are subdivisions of the four census regions. There are nine census divisions, which the U.S. Census Bureau established in 1910 for the presentation of census data. Each census division is identified by a one-digit census code; the same number appears as the first digit in the two-digit census state code (see STATE).

Puerto Rico and the Island Areas are not part of any census region or census division. For a list of all census regions, census divisions, and their constituent states, see Figure A–3.

CENSUS REGION

Census regions are groupings of states and the District of Columbia that subdivide the United States for the presentation of census data. There are four census regions—Northeast, Midwest, South, and West. Each of the four census regions is divided into two or more census divisions. Before 1984, the Midwest region was named the North Central region. From 1910, when census regions were established, through the 1940s, there were three census regions—North, South, and West. Each census region is identified by a single-digit census code.

Puerto Rico and the Island Areas are not part of any census region or census division. For a list of all census regions, census divisions, and their constituent states, see Figure A–3.

CENSUS TRACT

Census tracts are small, relatively permanent statistical subdivisions of a county or statistically equivalent entity delineated by local participants as part of the U.S. Census Bureau's Participant Statistical Areas Program. The U.S. Census Bureau delineated census tracts where no local participant existed or where a local or tribal government declined to participate. The primary purpose of

census tracts is to provide a stable set of geographic units for the presentation of decennial census data. This is the first decennial census for which the entire United States is covered by census tracts. For the 1990 census, some counties had census tracts and others had block numbering areas (BNAs). For Census 2000, all BNAs were replaced by census tracts, which may or may not represent the same areas.

Census tracts in the United States, Puerto Rico, and the Virgin Islands of the United States generally have between 1,500 and 8,000 people, with an optimum size of 4,000 people. For American Samoa, the Northern Mariana Islands, and Guam, the optimum size is 2,500 people. Counties and statistically equivalent entities with fewer than 1,500 people have a single census tract. Census tracts on American Indian reservations, off-reservation trust lands, and special places must contain a minimum of 1,000 people. (Special places include correctional institutions, military installations, college campuses, workers' dormitories, hospitals, nursing homes, and group homes.) When first delineated, census tracts are designed to be relatively homogeneous with respect to population characteristics, economic status, and living conditions. 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 many decades so that statistical comparisons can be made from decennial census to decennial census. However, physical changes in street patterns caused by highway construction, new developments, and so forth, may require occasional boundary revisions. In addition, census tracts occasionally are split due to population growth or combined as a result of substantial population decline.

Census tracts are identified by a four-digit basic number and may have a two-digit numeric suffix; for example, 6059.02. The decimal point separating the four-digit basic tract number from the two-digit suffix is shown in the printed reports and on census maps. In computer-readable files, the decimal point is implied. Many census tracts do not have a suffix; in such cases, the suffix field is either left blank or is zero-filled. Leading zeros in a census tract number (for example, 002502) are shown only in computer-readable files. Census tract suffixes may range from .01 to .98. For the 1990 census, the .99 suffix was reserved for census tracts/block numbering areas (BNAs) that contained only crews-of-vessels population; for Census 2000, the crews-of-vessels population is included with the related census tract.

Census tract numbers range from 1 to 9999 and are unique within a county or statistically equivalent entity. The U.S. Census Bureau reserves the basic census tract numbers 9400 to 9499 for census tracts delineated within or to encompass American Indian reservations and off-reservation trust lands that exist in multiple states or counties (see TRIBAL CENSUS TRACTS). The number 0000 in computer-readable files identifies a census tract delineated to provide complete coverage of water area in territorial seas and the Great Lakes.

CONGRESSIONAL DISTRICT (CD)

Congressional districts (CDs) are the 435 areas from which people 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 CDs for the purpose of electing representatives. Each CD is to be as equal in population to all other CDs in the state as practicable.

The CDs in effect at the time of Census 2000 are those of the 106th Congress, whose session began in January 1999. The CDs of the 103rd Congress (January 1993 to 1995) were the first to reflect redistricting based on the 1990 census. These CD boundaries and numbers remained in effect until after Census 2000, except where a state initiative or a court-ordered redistricting had required a change. Six states redistricted for the 104th Congress (Georgia, Louisiana, Maine, Minnesota, South Carolina, and Virginia), five states redistricted for the 105th Congress (Florida, Georgia, Kentucky, Louisiana, and Texas), and three states (New York, North Carolina, and Virginia) redistricted for the 106th Congress. The 108th Congress will be the first to reflect reapportionment and redistricting based on Census 2000 data.

CDs are identified with a two-digit Federal Information Processing Standards (FIPS) code. The code "00" is used for states with a single representative.

American Samoa, Guam, the Virgin Islands of the United States, and the District of Columbia are represented in the House of Representatives by a delegate, and Puerto Rico by a resident commissioner, all of whom may not vote on the floor of the House of Representatives, but may vote on legislation as it is considered by committees to which they have been named. In computer-readable data products that display a congressional district field, the two-digit FIPS code "98" is used to identify such representational areas. The Northern Mariana Islands does not have representation in Congress. The FIPS code "99" identifies areas with no representation in Congress.

COUNTY (OR STATISTICALLY EQUIVALENT ENTITY)

The primary legal divisions of most states are termed "counties." In Louisiana, these divisions are known as parishes. In Alaska, which has no counties, the statistically equivalent entities are census areas, city and boroughs (as in Juneau City and Borough), a municipality (Anchorage), and organized boroughs. Census areas are delineated cooperatively for data presentation purposes by the state of Alaska and the U.S. Census Bureau. In four states (Maryland, Missouri, Nevada, and Virginia), there are one or more incorporated places that are independent of any county organization and thus constitute primary divisions of their states; these incorporated places are known as "independent cities" and are treated as equivalent to counties for data presentation purposes. (In some data presentations, they may be treated as county subdivisions and places.) The District of Columbia has no primary divisions, and the entire area is considered equivalent to a county for data presentation purposes. In American Samoa, the primary divisions are districts and islands; in the Northern Mariana Islands, municipalities; in the Virgin Islands of the United States, the principal islands of St. Croix, St. John, and St. Thomas. Guam has no primary divisions, and the entire area is considered equivalent to a county for data presentation purposes.

Each county and statistically equivalent entity is assigned a three-digit Federal Information Processing Standards 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 are assigned codes higher than and following the listing of counties.

COUNTY SUBDIVISION

County subdivisions are the primary divisions of counties and statistically equivalent entities for data presentation purposes. They include census county divisions, census subareas, minor civil divisions (MCDs), unorganized territories, and incorporated places that are independent of any MCD.

Each county subdivision is assigned a five-digit Federal Information Processing Standards (FIPS) code in alphabetical order within each state.

Census County Division (CCD)

Census county divisions (CCDs) are county subdivisions that were delineated by the U.S. Census Bureau, in cooperation with state and local government officials for data presentation purposes. CCDs have been established in 21 states where there are no legally established minor civil divisions (MCDs), where the MCDs do not have governmental or administrative purposes, where the boundaries of the MCDs are ambiguous or change frequently, and/or where the MCDs generally are not known to the public. CCDs have no legal functions and are not governmental units.

The boundaries of CCDs usually are delineated to follow visible features and coincide with census tracts where applicable. (In a few instances, two CCDs may constitute a single census tract.) The name of each CCD is based on a place, county, or well-known local name that identifies its location. CCDs 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.

Census Subarea

Census subareas are statistical subdivisions of boroughs, census areas, city and boroughs, and the municipality (entities that are statistically equivalent to counties) in Alaska. Census subareas are delineated cooperatively by the state of Alaska and the U.S. Census Bureau. They were first used for data presentation purposes in conjunction with the 1980 census.

Minor Civil Division (MCD)

Minor civil divisions (MCDs) are the primary governmental or administrative divisions of a county in many states (parish in Louisiana). MCDs represent many different kinds of legal entities with a wide variety of governmental and/or administrative functions. MCDs are variously designated as American Indian reservations, assessment districts, boroughs, charter townships, election districts, election precincts, gores, grants, locations, magisterial districts, parish governing authority districts, plantations, precincts, purchases, road districts, supervisors' districts, towns, and townships. In some states, all or some incorporated places are not located in any MCD (independent places) and thus serve as MCDs in their own right. In other states, incorporated places are part of the MCDs in which they are located (dependent places), or the pattern is mixed–some incorporated places are independent of MCDs and others are included within one or more MCDs. Independent cities, which are statistically equivalent to a county, also are treated as a separate MCD equivalent in states containing MCDs. In Maine and New York, there are American Indian reservations and off-reservation trust lands that serve as MCD equivalents; a separate MCD is created in each case where the American Indian area crosses a county boundary.

The U.S. Census Bureau recognizes MCDs 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 city of Washington is considered equivalent to an MCD for data presentation purposes. Arlington County, VA, also has no MCDs and the entire county is designated as an MCD with the name Arlington.

In the Island Areas, the U.S. Census Bureau recognizes the following entities as MCDs:

- American Samoa: Counties (within the three districts; the two islands have no legal subdivisions).
- Northern Mariana Islands: Municipal districts.
- Guam: Election districts.
- Virgin Islands of the United States: Census subdistricts.

The MCDs in 12 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 that generally can perform the same governmental functions as incorporated places. The U.S. Census Bureau presents data for these MCDs in all data products in which it provides data for places.

In eight MCD states (Illinois, Indiana, Kansas, Missouri, Nebraska, North Dakota, Ohio, and South Dakota) the MCD townships serve as general-purpose local governments but do not have the ability to perform all the governmental functions as incorporated places. This category also includes the counties in American Samoa. Missouri is exceptional in that it has a minority of townships that serve as general-purpose governments (the majority of townships in Missouri fall into the category described below).

In the remaining eight MCD states (Arkansas, Iowa, Louisiana, Maryland, Mississippi, North Carolina, Virginia, and West Virginia); the counties containing precincts in Illinois and Nebraska; the townships in Williamson County, Illinois; and the majority of townships in Missouri, the MCDs are geographic subdivisions of the counties and are not governmental units. The MCDs in Puerto Rico and the Island Areas (except American Samoa) also fall into this classification.

Unorganized Territory

Unorganized territories occur in 10 minor civil division (MCD) states (Arkansas, Indiana, Iowa, Louisiana, Maine, Minnesota, North Carolina, North Dakota, Ohio, and South Dakota) where portions of counties are not included in any legally established MCD or independent incorporated place. The U.S. Census Bureau recognizes such areas as one or more separate county subdivisions

for purposes of data presentation. It assigns each unorganized territory a descriptive name, followed by the designation "unorganized territory" or "UT." Unorganized territories were first used for data presentation purposes in conjunction with the 1960 census.

GEOGRAPHIC CODE

Geographic codes are shown primarily in computer-readable data products, such as computer tape and CD-ROM/DVD media, including data tabulations and data tables associated with computer-readable boundary files, but they also are shown on some U.S. Census Bureau maps. Census codes are used only if there is no Federal Information Processing Standards (FIPS) code for the same geographic entity or if the FIPS code is not adequate for data presentation. A code that is not identified as either "census" or "FIPS" is usually a census code for which there is no FIPS equivalent. Entities that use only FIPS codes in U.S. Census Bureau products are congressional district, county and statistically equivalent entity, county subdivision, subbarrio, Alaska Native Regional Corporation, metropolitan area (that is, metropolitan statistical area, consolidated metropolitan statistical area, primary metropolitan statistical area, and New England county metropolitan area), place, and state. (A census code exists for each state, but was not assigned in alphabetical sequence and serves to organize the states by census region and census division.)

Census Code

Census codes are assigned for a variety of geographic entities, including American Indian area, Alaska Native village statistical area, Hawaiian home land, census division, census region, urbanized area, urban cluster, state legislative district, school district, urban growth area, and voting district. The structure, format, and meaning of census codes used in U.S. Census Bureau data products appear in the appropriate technical documentation.

Federal Information Processing Standards (FIPS) Code

Federal Information Processing Standards (FIPS) codes are assigned for a variety of geographic entities, including American Indian area, Alaska Native area, Hawaiian home land, congressional district, county, county subdivision, metropolitan area, place, and state. The structure, format, and meaning of FIPS codes used in U.S. Census Bureau data products appear in the appropriate technical documentation.

The objective of FIPS codes is to improve the ability to use the data resources of the federal government and avoid unnecessary duplication and incompatibilities in the collection, processing, and dissemination of data. The FIPS codes and FIPS code documentation are available online at http://www.itl.nist.gov/fipspubs/index.htm. Further information about the FIPS 5-2, 6-4, and 9-1 publications (states, counties, and congressional districts, respectively) is available from the Geographic Areas Branch, Geography Division, U.S. Census Bureau, Washington, DC 20233-7400, telephone 301- 457-1099. Further information about the FIPS 55-DC3 publication (places, consolidated cities, county subdivisions, and noncensus locational entities) is available from the Geographic Names Office, National Mapping Division, U.S. Geological Survey, 523 National Center, Reston, VA 20192, telephone 703-648-4544.

United States Postal Service (USPS) Code

United States Postal Service (USPS) codes for states are used in all decennial census data products. The codes are two-character alphabetic abbreviations. These codes are the same as the Federal Information Processing Standards two-character alphabetic abbreviations.

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 causes this point to be located outside the boundary of the entity or in a water body, it is relocated to land area within the entity. In computer-readable products, internal points are shown to six decimal places; the decimal point is implied.

The first character of the latitude or longitude is a plus (+) or a minus (–) sign. A plus sign in the latitude identifies the point as being in the Northern Hemisphere, while a minus sign identifies a location in the Southern Hemisphere. For longitude, a plus sign identifies the point as being in the Eastern Hemisphere, while a minus sign identifies a location in the Western Hemisphere.

ISLAND AREAS OF THE UNITED STATES

The Island Areas of the United States are American Samoa, Guam, the Commonwealth of the Northern Mariana Islands (Northern Mariana Islands), and the Virgin Islands of the United States. The U.S. Census Bureau treats the Island Areas as entities that are statistically equivalent to states for data presentation purposes. Geographic definitions specific to the Island Areas are shown in the appropriate publications and documentation that accompany the data products for the Island Areas.

Sometimes the Island Areas are referred to as "Island Territories" or "Insular Areas." For the 1990 and previous censuses, the U.S. Census Bureau referred to the entities as "Outlying Areas." The term "U.S. Minor Outlying Islands" refers to certain small islands under U.S. jurisdiction in the Caribbean and Pacific: Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.

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 MAs are defined around two or more nuclei.

The MAs and the central cities within an MA are designated and defined by the federal Office of Management and Budget, following a set of official standards that are published in a Federal Register Notice. 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 MAs nationwide.

Each MA must contain either a place with a minimum population of 50,000 or a U.S. Census Bureau-defined urbanized area and a total MA population of at least 100,000 (75,000 in New England). An MA contains 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, MAs consist of groupings of cities and county subdivisions (mostly towns) rather than whole counties.

The territory, population, and housing units in MAs 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 territory designated "metropolitan" are referred to as "nonmetropolitan." The metropolitan and nonmetropolitan classification cuts across the other hierarchies; for example, generally there are 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 each MA either as a metropolitan statistical area (MSA) or as a consolidated metropolitan statistical area divided into primary metropolitan statistical areas. In New England, there also is an alternative county-based definition of MSAs known as the New England County Metropolitan Areas. (See definitions below.) Documentation of the MA standards and how they are applied is available from the Population Distribution Branch, Population Division, U.S. Census Bureau, Washington, DC 20233-8800, telephone 301-457-2419.

Central City

In each metropolitan statistical area and consolidated metropolitan statistical area, the largest place and, in some cases, one or more additional places are designated as "central cities" under the official standards. A few primary metropolitan statistical areas 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 metropolitan area (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 place that extends outside the MA boundary.

Consolidated and Primary Metropolitan Statistical Area (CMSA and PMSA)

If an area that qualifies as a metropolitan area (MA) has 1 million people or more, two or more primary metropolitan statistical areas (PMSAs) may be defined within it. Each PMSA consists of a large urbanized county or cluster of counties (cities and towns in New England) that demonstrate very strong internal economic and social links, in addition to close ties to other portions of the larger area. When PMSAs are established, the larger MA of which they are component parts is designated a consolidated metropolitan statistical area (CMSA). CMSAs and PMSAs are established only where local governments favor such designations for a large MA.

Metropolitan Statistical Area (MSA)

Metropolitan statistical areas (MSAs) are metropolitan areas (MAs) that are not closely associated with other MAs. These areas typically are surrounded by nonmetropolitan counties (county subdivisions in New England).

Metropolitan Area Title and Code

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

The title of a primary metropolitan statistical area (PMSA) may contain up to three place names, as determined above, or up to three county names, sequenced in order of population size, from largest to smallest. A consolidated metropolitan statistical area (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 local opinion supports such a designation and the federal Office of Management and Budget deems it to be unambiguous and suitable.

The titles for all metropolitan areas (MAs) also contain the U.S. Postal Service's abbreviation for the name of each state in which the MA is located. Each MA is assigned a four-digit Federal Information Processing Standards (FIPS) code, in alphabetical order nationwide. If the fourth digit of the code is "2," it identifies a CMSA. Additionally, there is a separate set of two-digit FIPS codes for CMSAs, also assigned alphabetically.

New England County Metropolitan Area (NECMA)

New England county metropolitan areas (NECMAs) are defined as a county-based alternative to the city- and town-based New England metropolitan statistical areas (MSAs) and consolidated metropolitan statistical areas (CMSAs). The NECMA defined for an MSA or a CMSA includes:

- The county containing the first-named city in that MSA/CMSA title (this county may include the first-named cities of other MSAs/CMSAs as well), and
- Each additional county having at least half its population in the MSAs/CMSAs whose first-named cities are in the previously identified county. NECMAs are not identified for individual primary metropolitan statistical areas.

Central cities of a NECMA are those places in the NECMA that qualify as central cities of an MSA or a CMSA. NECMA titles derive from the names of these central cities. Each NECMA is assigned a four-digit Federal Information Processing Standards (FIPS) code.

PLACE

Places, for the reporting of decennial census data, include census designated places, consolidated cities, and incorporated places. Each place is assigned a five-digit Federal Information Processing Standards (FIPS) code, based on the alphabetical order of the place name within each state. If place names are duplicated within a state and they represent distinctly different areas, a separate code is assigned to each place name alphabetically by primary county in which each place is located, or if both places are in the same county, alphabetically by their legal description (for example, "city" before "village").

Census Designated Place (CDP)

Census designated places (CDPs) are delineated for each decennial census as the statistical counterparts of incorporated places. CDPs are delineated to provide census data for concentrations of population, housing, and commercial structures that are identifiable by name but are not within an incorporated place. CDP boundaries usually are defined in cooperation with state, local, and tribal officials. These boundaries, which usually coincide with visible features or the boundary of an adjacent incorporated place or other legal entity boundary, have no legal status, nor do these places have officials elected to serve traditional municipal functions. CDP boundaries may change from one decennial census to the next with changes in the settlement pattern; a CDP with the same name as in an earlier census does not necessarily have the same boundary.

For Census 2000, for the first time, CDPs did not need to meet a minimum population threshold to qualify for tabulation of census data. For the 1990 census and earlier censuses, the U.S. Census Bureau required CDPs to qualify on the basis of various minimum population size criteria.

Beginning with the 1950 census, the U.S. Census Bureau, in cooperation with state and local governments (and American Indian tribal officials starting with the 1990 census), identified and delineated boundaries and names for CDPs. In the data products issued in conjunction with Census 2000, the name of each such place is followed by "CDP," as was the case for the 1990 and 1980 censuses. In the data products issued in conjunction with the 1950, 1960, and 1970 censuses, these places were identified by "(U)," meaning "unincorporated place."

Hawaii is the only state that has no incorporated places recognized by the U.S. Census Bureau. All places shown in the data products for Hawaii are CDPs. By agreement with the state of Hawaii, the U.S. Census Bureau does not show data separately for the city of Honolulu, which is coextensive with Honolulu County.

All places in the Northern Mariana Islands and Guam are CDPs. The Virgin Islands of the United States has both CDPs and incorporated places. There are no CDPs in American Samoa; the U.S. Census Bureau treats the traditional villages as statistically equivalent to incorporated places.

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 presentation of data for consolidated cities varies depending on the geographic presentation. In some hierarchical presentations, consolidated cities are not shown. These presentations include the places within the consolidated city and the "consolidated city (balance)." Although hierarchical presentations do not show the consolidated city, the data for it are the same as the county or county subdivision with which it is coextensive. Other hierarchical presentations do show the consolidated city, county or county subdivision, and (balance) as separate entities.

For inventory geographic presentations, the consolidated city appears alphabetically sequenced within the listing of places; in 1990, consolidated places appeared at the end of the listing. The data for the consolidated city include the data for all places that are part of and within the consolidated city. The "consolidated city (balance)" entry shows the data for the portion of the consolidated government minus the separately incorporated places within the consolidated city, and is shown in alphabetical sequence with other places that comprise the consolidated city. For data presentation purposes these "balance" entities are treated as statistically equivalent to a place; they have no legal basis or functions.

In summary presentations by size of place, the consolidated city is not included. The places within consolidated cities are categorized by their size, as is the "consolidated city (balance)." A few incorporated places are partially inside and partially outside a consolidated city. Data tabulations by place will include all territory within the place, while the tabulation for the place within a consolidated city is only for part of the place.

Each consolidated city is assigned a five-digit Federal Information Processing Standards (FIPS) code that is unique within state. The places within consolidated cities and the "consolidated city (balance)" also are assigned five-digit FIPS place codes that are unique within state. The code assigned to each place within a consolidated city is the same as its regular place code; a place that is partially included in a consolidated city does not have a different code for the portions inside and outside the consolidated city. FIPS codes are assigned based on alphabetical sequence within each state.

Incorporated Place

Incorporated places recognized in decennial census data products are those reported to the U.S. Census Bureau as legally in existence on January 1, 2000, under the laws of their respective states, as cities, boroughs, city and boroughs, municipalities, 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 decennial census purposes; the boroughs, city and boroughs (as in Juneau City and Borough), and municipality (Anchorage) in Alaska are county equivalents for decennial census statistical presentation purposes. In four states (Maryland, Missouri, Nevada, and Virginia), there are one or more incorporated places known as "independent cities" that are primary divisions of a state and legally not part of any county. For data presentation purposes, the U.S. Census Bureau may treat an independent city as a county equivalent, county subdivision, and place.

The U.S. Census Bureau treats the villages in American Samoa as incorporated places because they have their own officials, who have specific legal powers as authorized in the American Samoa Code. The village boundaries are traditional rather than being specific, legally defined locations. There are no incorporated places in Guam and the Northern Mariana Islands. The U.S. Census Bureau treats the three towns in the Virgin Islands of the United States as incorporated places.

There are a few incorporated places that do not have a legal description. An incorporated place is established to provide governmental functions for a concentration of people as opposed to a minor civil division, which generally is created to provide services or administer an area without regard, necessarily, to population.

POPULATION OR HOUSING UNIT DENSITY

Population and housing unit density are computed by dividing the total population or number of housing units within a geographic entity (for example, United States, state, county, place) by the land area of that entity measured in square kilometers or square miles. Density is expressed as both "people (or housing units) per square kilometer" and "people (or housing units) per square mile" of land area.

PUBLIC USE MICRODATA AREA (PUMA)

A public use microdata area (PUMA) is a decennial census area for which the U.S. Census Bureau provides specially selected extracts of raw data from a small sample of long-form census records that are screened to protect confidentiality. These extracts are referred to as "public use microdata sample (PUMS)" files. Since 1960, data users have been using these files to create their own statistical tabulations and data summaries.

For Census 2000, state, District of Columbia, and Puerto Rico participants, following U.S. Census Bureau criteria, delineated two types of PUMAs within their states. PUMAs of one type comprise areas that contain at least 100,000 people. The PUMS files for these PUMAs contain a 5-percent sample of the long-form records. The other type of PUMAs, super-PUMAs, comprise areas of at least 400,000 people. The sample size is 1 percent for the PUMS files for super-PUMAs.

PUMAs cannot be in more than one state or statistically equivalent entity. The larger 1-percent PUMAs are aggregations of the smaller 5-percent PUMAs.

PUERTO RICO

The U.S. Census Bureau treats the Commonwealth of Puerto Rico as the statistical equivalent of a state for data presentation purposes. Each state and statistically equivalent entity is assigned a two-digit Federal Information Processing Standards (FIPS) code in alphabetical order by state name, followed in alphabetical order by Puerto Rico and the Island Areas. Each state and statistically equivalent entity also is assigned the two-letter FIPS/U.S. Postal Service code.

Municipio

The primary legal divisions of Puerto Rico are termed "municipios." For data presentation purposes, the U.S. Census Bureau treats a municipio as the equivalent of a county in the United States.

Each municipio is assigned a unique three-digit Federal Information Processing Standards (FIPS) code in alphabetical order within Puerto Rico.

Barrio, Barrio-Pueblo, and Subbarrio

The U.S. Census Bureau recognizes barrios and barrios-pueblo as the primary legal divisions of municipios. These entities are similar to the minor civil divisions (MCDs) used for reporting decennial census data in 28 states of the United States. Subbarrios in 23 municipios are the primary legal subdivisions of the barrios-pueblo and some barrios. The U.S. Census Bureau presents the same types of Census 2000 data for these "sub-MCDs" as it does for the barrios and barrios-pueblo. (There is no geographic entity in the United States equivalent to the subbarrio.)

Each barrio, barrio-pueblo, and subbarrio is assigned a five-digit Federal Information Processing Standards (FIPS) code in alphabetical order within Puerto Rico.

Zona Urbana and Comunidad

There are no incorporated places in Puerto Rico; instead, the U.S. Census Bureau provides decennial census data for two types of census designated places (CDPs): (1) zonas urbanas, representing the governmental center of each municipio, and (2) comunidades, representing other settlements. For Census 2000, there are no minimum population size requirements for CDPs. (For the 1990 census, the U.S. Census Bureau had required comunidades to have at least 1,000 people.)

Each zona urbana and comunidad is assigned a five-digit Federal Information Processing Standards (FIPS) code in alphabetical order within Puerto Rico.

Some types of geographic entities do not apply in Puerto Rico. For instance, Puerto Rico is not in any census region or census division. In addition, the U.S. Census Bureau does not tabulate data for state legislative districts and traffic analysis zones in Puerto Rico. (See also CONGRESSIONAL DISTRICT (CD).)

SCHOOL DISTRICT

School districts are geographic entities within which state, county, or local officials or the Department of Defense provide public educational services for the areas residents. The U.S. Census Bureau obtains the boundaries and names for school districts from state officials. The U.S. Census Bureau first provided data for school districts in conjunction with the 1970 census. For Census 2000, the U.S. Census Bureau tabulated data for three types of school districts: elementary, secondary, and unified.

Each school district is assigned a five-digit code that is unique within state. School district codes are assigned by the Department of Education and are not necessarily in alphabetical order by school district name.

STATE (OR STATISTICALLY EQUIVALENT ENTITY)

States are the primary governmental divisions of the United States. The District of Columbia is treated as a statistical equivalent of a state for data presentation purposes. For Census 2000, the U.S. Census Bureau also treats a number of entities that are not legal divisions of the United States as statistically equivalent to a state: American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, Puerto Rico, and the Virgin Islands of the United States.

Each state and statistically equivalent entity is assigned a two-digit numeric Federal Information Processing Standards (FIPS) code in alphabetical order by state name, followed in alphabetical order by Puerto Rico and the Island Areas. Each state and statistically equivalent entity also is assigned a two-letter FIPS/U.S. Postal Service code and a two-digit census code. The census code is assigned on the basis of the geographic sequence of each state within each census division; the first digit of the code identifies the respective division, except for Puerto Rico and the Island Areas, which are not assigned to any region or division. The census regions, census divisions, and their component states are listed in Figure A–3.

STATE LEGISLATIVE DISTRICT (SLD)

State legislative districts (SLDs) are the areas from which members are elected to state legislatures. The SLDs embody the upper (senate) and lower (house) chambers of the state legislature. (Nebraska has a unicameral legislature that the U.S. Census Bureau treats as an upper-chamber legislative area for data presentation purposes. There are, therefore, no data by lower chamber.) A unique census code of up to three characters, identified by state participants, is assigned to each SLD within state. The code "ZZZ" identifies parts of a county in which no SLDs were identified.

As an option in the Census 2000 Redistricting Data Program (Public Law 94-171), participating states receive P.L. 94-171 census data for their SLDs (see VOTING DISTRICT (VTD)). Not all states delineated SLDs for the purpose of presenting Census 2000 data, in which case the entire state is treated as a single SLD coded with blanks at both levels.

TIGER® DATABASE

TIGER® is an acronym for the Topologically Integrated Geographic Encoding and Referencing (System or database). It is a digital (computer-readable) geographic database that automates the mapping and related geographic activities required to support the U.S. Census Bureau's census and survey programs. The U.S. Census Bureau developed the 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 presentations, providing the geographic structure for tabulation and dissemination of the collected statistical data, assigning residential and employer addresses to the correct geographic location and relating those locations to the geographic entities used for data tabulation, and so forth. The content of the TIGER database is undergoing continuous updates and is made available to the public through a variety of TIGER/Line® files that may be obtained free of charge from the Internet or packaged on CD-ROM or DVD from Customer Services, U.S. Census Bureau, Washington, DC 20233-1900; telephone 301-763-INFO (4636); Internet http://www.census.gov/geo/www/tiger.

TRAFFIC ANALYSIS ZONE (TAZ)

A traffic analysis zone (TAZ) is a statistical entity delineated by state and/or local transportation officials for tabulating traffic-related census data–especially journey-to-work and place-of-work statistics. A TAZ usually consists of one or more census blocks, block groups, or census tracts. For the 1990 census, TAZs were defined as part of the Census Transportation Planning Package (CTPP). The U.S. Census Bureau first provided data for TAZs in conjunction with the 1980 census, when it identified them as "traffic zones."

Each TAZ is identified by a six-character alphanumeric code that is unique within county or statistically equivalent entity. For the 1990 census, TAZ codes were unique within CTPP area, which generally conformed to a metropolitan area.

TRIBAL BLOCK GROUP

A tribal block group (BG) is a cluster of census blocks having the same first digit of their four-digit identifying numbers and are within a single tribal census tract. For example, tribal BG 3 consists of all blocks within tribal tract 9406 numbered from 3000 to 3999. Where a federally recognized American Indian reservation and/or off-reservation trust land crosses county and/or state lines, the same tribal BG may be assigned on both sides of the state/county boundary within a tribal census tract that is numbered from 9400 to 9499. The optimum size for a tribal BG is 1,000 people; it must contain a minimum of 300 people. (See also BLOCK GROUP (BG).)

The difference between a tribal BG and a nontribal BG is in the hierarchical presentation of the data. A tribal BG is part of the American Indian hierarchy; that is, the tribal BG is within a tribal census tract that is within a federally recognized American Indian reservation and/or off-reservation trust land. (See INTRODUCTION—GEOGRAPHIC PRESENTATION OF DATA.)

TRIBAL CENSUS TRACT

Tribal census tracts are small, relatively permanent statistical subdivisions of a federally recognized American Indian reservation and/or off-reservation trust land. The optimum size for a tribal census tract is 2,500 people; it must contain a minimum of 1,000 people. Where a federally recognized American Indian reservation or off-reservation trust land crosses county or state lines, the same tribal census tract number may be assigned on both sides of the state/county boundary. The U.S. Census Bureau uses the census tract numbers 9400 to 9499 for tribal census tracts that cross state/county boundaries and are within or encompassing American Indian reservations and off-reservation trust land. (See also CENSUS TRACT.)

The difference between a tribal census tract and a nontribal census tract is in the hierarchical presentation of the data. A tribal census tract is part of the American Indian hierarchy; that is, the tribal census tract is within a federally recognized American Indian reservation and/or off-reservation trust land. (See INTRODUCTION—GEOGRAPHIC PRESENTATION OF DATA.)

UNITED STATES

The United States consists of the 50 states and the District of Columbia.

URBAN AND RURAL

The U.S. Census Bureau classifies as urban all territory, population, and housing units located within urbanized areas (UAs) and urban clusters (UCs). It delineates UA and UC boundaries to encompass densely settled territory, which generally consists of:

- A cluster of one or more block groups or census blocks each of which has a population density of at least 1,000 people per square mile at the time.
- Surrounding block groups and census blocks each of which has a population density of at least 500 people per square mile at the time.
- Less densely settled blocks that form enclaves or indentations, or are used to connect discontiguous areas with qualifying densities.

Rural consists of all territory, population, and housing units located outside of UAs and UCs.

Geographic entities, such as metropolitan areas, counties, minor civil divisions, and places, often contain both urban and rural territory, population, and housing units.

This urban and rural classification applies to the 50 states, the District of Columbia, Puerto Rico, American Samoa, Guam, the Northern Mariana Islands, and the Virgin Islands of the United States.

Urbanized Area (UA)

An urbanized area (UA) consists of densely settled territory that contains 50,000 or more people. The U.S. Census Bureau delineates UAs to provide a better separation of urban and rural territory, population, and housing in the vicinity of large places.

For Census 2000, the UA criteria were extensively revised and the delineations were performed using a zero-based approach. Because of more stringent density requirements, some territory that was classified as urbanized for the 1990 census has been reclassified as rural. (Area that was part of a 1990 UA has not been automatically grandfathered into the 2000 UA.) In addition, some areas that were identified as UAs for the 1990 census have been reclassified as urban clusters.

Urban Cluster (UC)

An urban cluster (UC) consists of densely settled territory that has at least 2,500 people but fewer than 50,000 people.

The U.S. Census Bureau introduced the UC for Census 2000 to provide a more consistent and accurate measure of the population concentration in and around places. UCs are defined using the same criteria that are used to define UAs. UCs replace the provision in the 1990 and previous censuses that defined as urban only those places with 2,500 or more people located outside of urbanized areas.

Urban Area Title and Code

The title of each urbanized area (UA) and urban cluster (UC) may contain up to three incorporated place names, and will include the two-letter U.S. Postal Service abbreviation for each state into which the UA or UC extends. However, if the UA or UC does not contain an incorporated place, the urban area title will include the single name of a census designated place, minor civil division, or populated place recognized by the U.S. Geological Survey's Geographic Names Information System.

Each UA and UC is assigned a five-digit numeric code, based on a national alphabetical sequence of all urban area names. For the 1990 census, the U.S. Census Bureau assigned a four-digit UA code based on the metropolitan area codes. A separate flag is included in data tabulation files to differentiate between UAs and UCs. In printed reports, this differentiation is included in the name.

Urban Area Central Place

A central place functions as the dominant center of an urban area. The U.S. Census Bureau identifies one or more central places for each urbanized area (UA) or urban cluster (UC) that contains a place. Any incorporated place or census designated place (CDP) that is in the title of the urban area is a central place of that UA or UC. In addition, any other incorporated place or CDP that has an urban population of 50,000 or an urban population of at least 2,500 people and is at least 2/3 the size of the largest place within the urban area also is a central place.

Extended Place

As a result of the urbanized area (UA) and urban cluster (UC) delineations, an incorporated place or census designated place may be partially within and partially outside of a UA or UC. Any place that is split by a UA or UC is referred to as an extended place.

Documentation of the UA, UC, and extended place criteria is available from the Geographic Areas Branch, Geography Division, U.S. Census Bureau, Washington, DC 20233-7400; telephone 301-457-1099.

URBAN GROWTH AREA (UGA)

An urban growth area (UGA) is a legally defined geographic entity in Oregon that the U.S. Census Bureau includes in the TIGER® database in agreement with the state. UGAs, which are defined around incorporated places, are used to control urban growth. UGA boundaries, which need not follow visible features, are delineated cooperatively by state and local officials and then confirmed in state law. UGAs are a new geographic entity for Census 2000.

Each UGA is identified by a five-digit census code, which generally is the same as the Federal Information Processing Standards (FIPS) code for the incorporated place for which the UGA is named. The codes are assigned alphabetically within Oregon.

VOTING DISTRICT (VTD)

Voting district (VTD) is the generic name for geographic entities, such as precincts, wards, and election districts, established by state, local, and tribal governments for the purpose of conducting elections. States participating in the Census 2000 Redistricting Data Program as part of Public Law 94-171 (1975) may provide boundaries, codes, and names for their VTDs to the U.S. Census Bureau. The U.S. Census Bureau first reported data for VTDs following the 1980 census. Because the U.S. Census Bureau requires that VTDs follow boundaries of census blocks, participating states often adjusted the boundaries of the VTDs they submit to conform to census block boundaries for data presentation purposes. If requested by the participating state, the U.S. Census Bureau identifies the VTDs that have not been adjusted as an "A" for actual in the VTD indicator field of the PL data file. The VTD indicator for all other VTDs is shown as "P" for pseudo.

For Census 2000, each VTD is identified by a one- to six-character alphanumeric census code that is unique within county. The code "ZZZZZZ" identifies parts of a county in which no VTDs were identified. For a state or county that did not participate in the VTD project, the code fields are blank.

ZIP CODE® TABULATION AREA (ZCTA™)

A ZIP Code® tabulation area (ZCTA™) is a statistical geographic entity that approximates the delivery area for a U.S. Postal Service five-digit or three-digit ZIP Code. ZCTAs are aggregations of census blocks that have the same predominant ZIP Code associated with the residential mailing addresses in the U.S. Census Bureau's Master Address File. Three-digit ZCTA codes are applied to large contiguous areas for which the U.S. Census Bureau does not have five-digit ZIP Code information in its Master Address File. ZCTAs do not precisely depict ZIP Code delivery areas, and do not include all ZIP Codes used for mail delivery. The U.S. Census Bureau has established ZCTAs as a new geographic entity similar to, but replacing, data tabulations for ZIP Codes undertaken in conjunction with the 1990 and earlier censuses.

Figure A–1. **Standard Hierarchy of Census Geographic Entities**

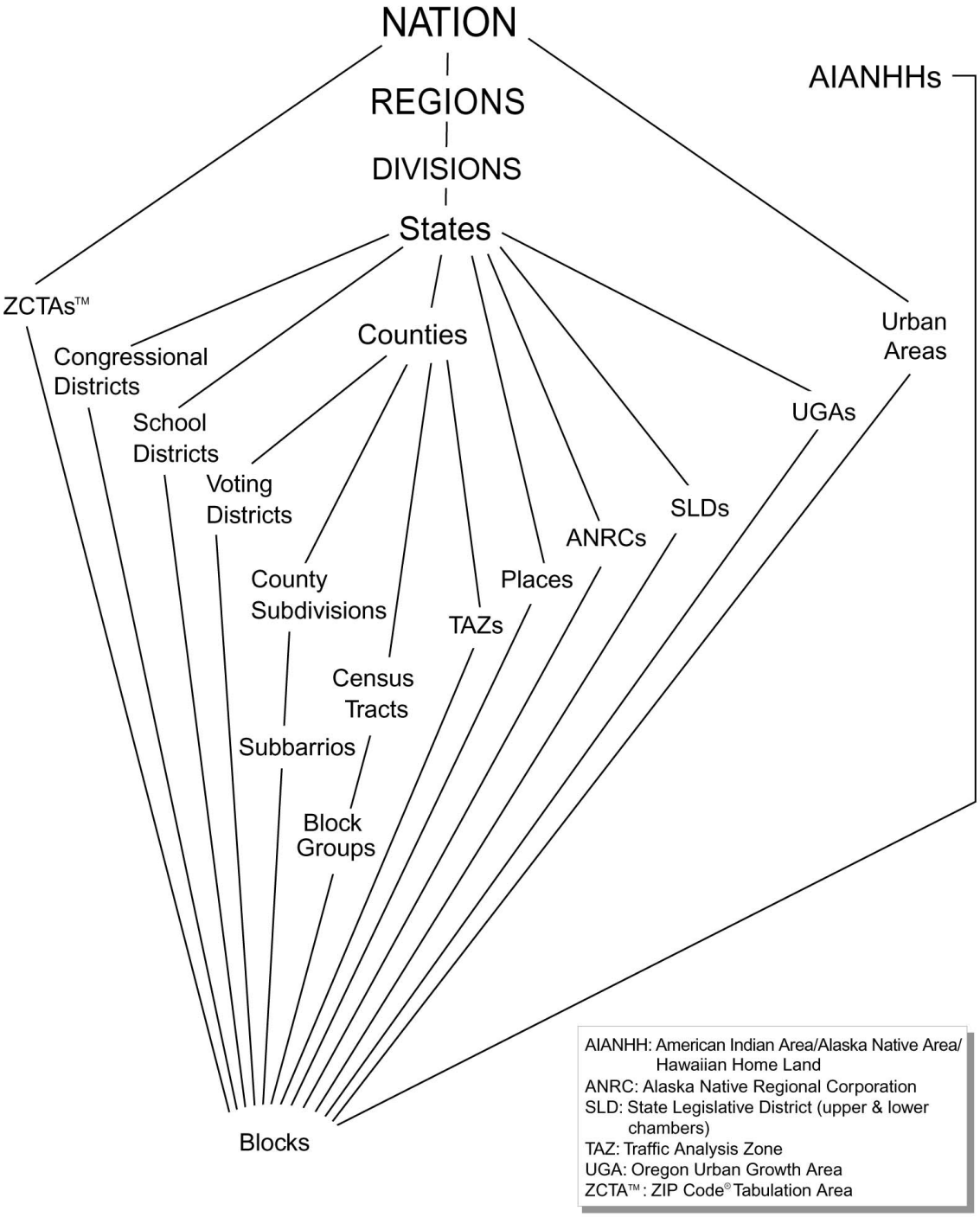


Figure A–2. **Hierarchy of American Indian, Alaska Native, and Native Hawaiian Entities**

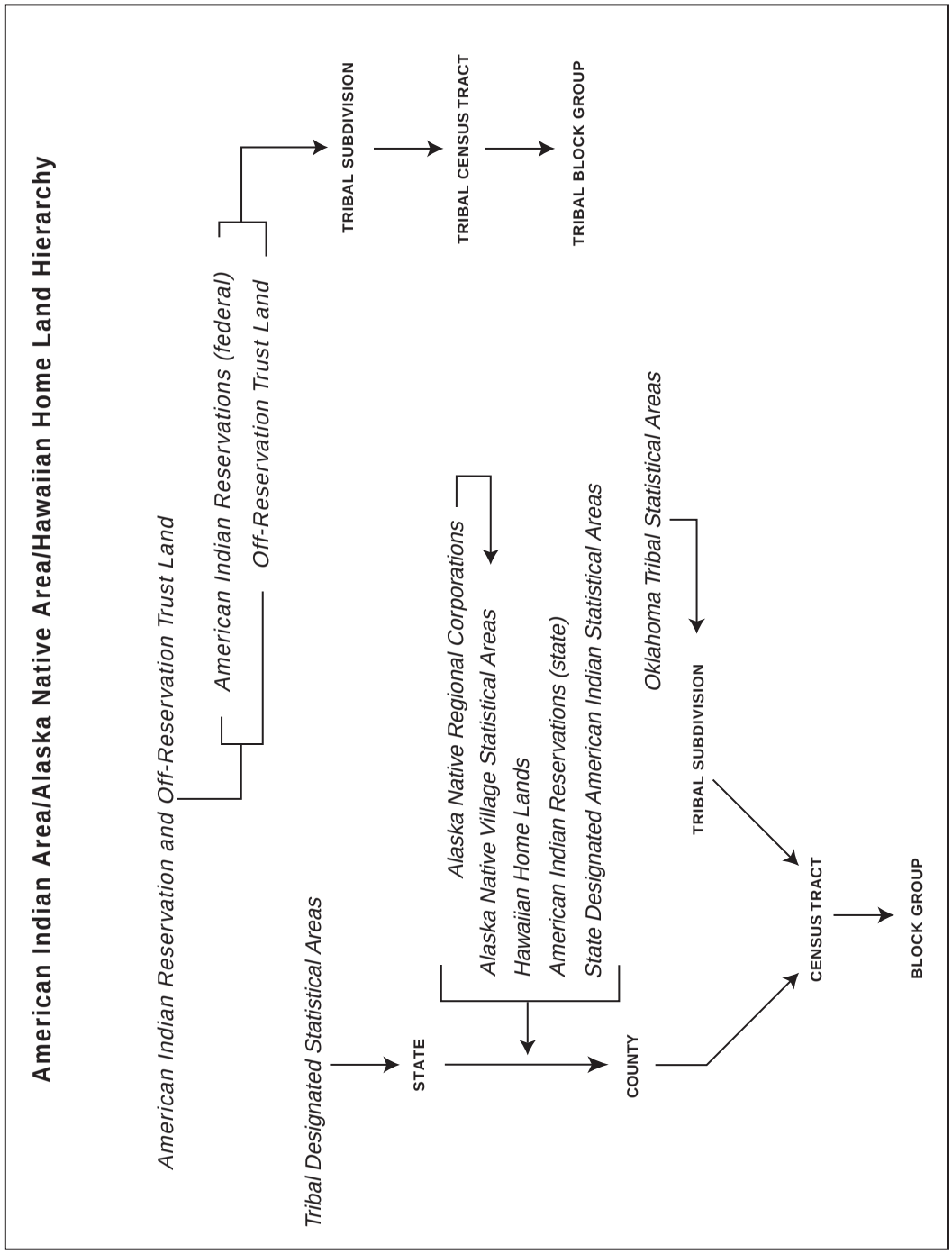


Figure A–3. **Census Regions, Census Divisions, and Their Constituent States**

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

Appendix B.
Definitions of Subject Characteristics

CONTENTS

POPULATION CHARACTERISTICS

	Page
Ability to Speak English (See Language Spoken at Home and Ability to Speak English)	B–32
Adopted Son/Daughter (See Household Type and Relationship)	B–15
Age	B–4
Ancestry	B–5
Average Family Size (See Household Type and Relationship)	B–17
Average Household Size (See Household Type and Relationship)	B–14
Brother/Sister (See Household Type and Relationship)	B–15
Carpooling (See Journey to Work)	B–26
Child (See Household Type and Relationship)	B–15
Citizenship Status	B–7
Civilian Labor Force (See Employment Status)	B–10
Class of Worker (See Industry, Occupation, and Class of Worker)	B–24
Daughter-in-law (See Household Type and Relationship)	B–15
Disability Status	B–7
Earnings in 1999 (See Income in 1999)	B–20
Educational Attainment	B–8
Employment Disability (See Disability Status)	B–7
Employment Status	B–10
Family (See Household Type and Relationship)	B–16
Family Income in 1999 (See Income in 1999)	B–19
Family Size (See Household Type and Relationship)	B–17
Family Type (See Household Type and Relationship)	B–16
Farm Population (See Farm Residence under Housing Characteristics)	B–54
Foreign Born (See Citizenship Status)	B–7
Foster Child (See Household Type and Relationship)	B–16
Full-Time, Year-Round Workers (See Work Status in 1999)	B–48
Gender (See Sex)	B–46
Going Outside the Home Disability (See Disability Status)	B–7
Grade in Which Enrolled	B–12
Grandchild (See Household Type and Relationship)	B–15
Grandparents as Caregivers	B–12
Group Quarters	B–13
Hispanic or Latino	B–13
Household (See Household Type and Relationship)	B–14
Household Income in 1999 (See Income in 1999)	B–19
Household Language (See Language Spoken at Home and Ability to Speak English)	B–31
Household Size (See Household Type and Relationship) (Also a Housing Characteristic)	B–14
Household Type and Relationship	B–14
Householder (See Household Type and Relationship)	B–14
Housemate or Roommate (See Household Type and Relationship)	B–16
Income Deficit (See Poverty Status in 1999)	B–36
Income in 1999	B–17
Income Type in 1999 (See Income in 1999)	B–18
Industry, Occupation, and Class of Worker	B–23
Institutionalized Population (See Group Quarters)	B–13
Journey to Work	B–26
Labor Force (See Employment Status)	B–10
Language Density (See Language Spoken at Home and Ability to Speak English)	B–31

Language Spoken at Home and Ability to Speak English B–29
Linguistic Isolation (See Language Spoken at Home and Ability to Speak English) B–32
Marital Status B–32
Means of Transportation to Work (See Journey to Work) B–27
Mental Disability (See Disability Status) B–7
Migration (See Residence 5 Years Ago) B–43
Native (See Citizenship Status) B–7
Nativity (See Place of Birth) B–34
Natural-born son/daughter (See Household Type and Relationship) B–15
Noninstitutionalized Population (See Group Quarters) B–13
Nonrelatives (See Household Type and Relationship) B–16
Occupation (See Industry, Occupation, and Class of Worker) B–24
Other Relatives (See Household Type and Relationship) B–15
Own Child (See Household Type and Relationship) B–15
Parent/Parent-in-law (See Household Type and Relationship) B–15
Per Capita Income (See Income in 1999) B–20
Period of Military Service (See Veteran Status) B–47
Physical Disability (See Disability Status) B–7
Place of Birth B–33
Place of Work (See Journey to Work) B–26
Poverty Status in 1999 ..... B–34
Poverty Status of Households in 1999 (Also a Housing Characteristic) B–59
Presence of Children (See Household Type and Relationship) B–14
Private Vehicle Occupancy (See Journey to Work) B–28
Race B–38
Relationship to Householder (See Household Type and Relationship) B–14
Relatives (See Household Type and Relationship) B–15
Reference Week B–43
Related Children (See Household Type and Relationship) B–15
Residence 5 Years Ago B–43
Roomer, Boarder (See Household Type and Relationship) B–16
School Enrollment and Employment Status B–45
School Enrollment and Type of School B–45
Self-Care Disability (See Disability Status) B–7
Sensory Disability (See Disability Status) B–7
Sex B–46
Son-in-law (See Household Type and Relationship) B–15
Spanish Origin (See Hispanic Origin) B–13
Spouse (Husband/Wife) (See Household Type and Relationship) B–14
Stepson/Stepdaughter (See Household Type and Relationship) B–15
Subfamily (See Household Type and Relationship) B–17
Summary Statistics (See Derived Measures) B–68
Time Leaving Home to Go to Work (See Journey to Work) B–28
Travel Time to Work (See Journey to Work) B–29
Type of School (See School Enrollment and Type of School) B–45
Unemployed (See Employment Status) B–10
Unmarried-Partner/Unmarried-Partner Household (See Household Type and Relationship) B–17
Unrelated Individual (See Household Type and Relationship) B–16
Usual Hours Worked Per Week Worked in 1999 (See Work Status in 1999) B–48
Veteran Status B–47
Weeks Worked in 1999 (See Work Status in 1999) B–48
Work Status in 1999 ..... B–48
Worker (See Employment Status; See Industry, Occupation, and Class of Worker; See Journey to Work; See Work Status in 1999; also see page B–49) B–11
Workers in Family in 1999 (See Work Status in 1999) B–48
Year of Entry B–49
Years of Military Service (See Veteran Status) B–47

HOUSING CHARACTERISTICS

Acreage (Cuerda) B–51
Available Housing (See Vacancy Status) B–66
Agricultural Sales B–51
Average Household Size (See Household Size) B–56
Bedrooms B–52
Business on Property B–52
Condominium Fee B–52
Congregate Housing (See Meals Included in Rent) B–57
Contract Rent B–53
Crop Sales (See Agricultural Sales) B–51
Cuerda (See Acreage) B–51
Farm Residence B–54
Gross Rent B–54
Gross Rent as a Percentage of Household Income in 1999 ..... B–55
Home Equity Loan (See Second or Junior Mortgage) B–61
Homeowner Vacancy Rate (See Vacancy Status) B–65
House Heating Fuel B–55
Household Size (Also a Population Characteristic) B–56
Housing Unit (See Living Quarters) B–50
Insurance for Fire, Hazard, and Flood B–56
Kitchen Facilities B–56
Living Quarters B–50
Meals Included in Rent B–57
Mobile Home Costs B–57
Mortgage Payment B–57
Mortgage Status B–58
Occupants Per Room B–58
Occupied Housing Unit (See Living Quarters) B–50
Owner-Occupied Housing Unit (See Tenure) B–63
Plumbing Facilities B–59
Population in Occupied Units B–59
Poverty Status of Households in 1999 (Also a Population Characteristic) B–59
Real Estate Taxes B–59
Rental Vacancy Rate (See Vacancy Status) B–65
Renter-Occupied Housing Unit (See Tenure) B–63
Rooms B–60
Second or Junior Mortgage or Home Equity Loan B–61
Selected Conditions B–61
Selected Monthly Owner Costs B–61
Selected Monthly Owner Costs as a Percentage of Household Income in 1999 ..... B–62
Summary Statistics (See Derived Measures) B–68
Telephone Service Available B–62
Tenure B–63
Type of Structure (See Units in Structure) B–64
Units in Structure B–64
Usual Home Elsewhere B–64
Utilities B–65
Vacancy Status B–65
Vacant Housing Unit (See Living Quarters) B–50
Value B–66
Vehicles Available B–67
Year Householder Moved Into Unit B–67
Year Structure Built B–68

DERIVED MEASURES

Aggregate (See Mean) B–69
Aggregates Subject to Rounding (See Mean) B–69
Average (See Mean) B–69
Interpolation B–68
Mean B–69

Median B–70
Percentage B–77
Quartile B–77
Rate B–77
Ratio B–77
Rounding for Selected Aggregates (See Mean) B–69
Special Rounding Rules for Aggregates (See Mean) B–69
Standard Distributions (See Median) B–70

POPULATION CHARACTERISTICS

Contact list: To obtain additional information on these and other Census 2000 subjects, see the list of *Census 2000 Contacts* on the Internet at http://www.census.gov/contacts/www/c-census2000.html.

Puerto Rico: Please note that for Census 2000, the definitions below apply to both the United States and Puerto Rico, except where noted. For 1990 and earlier censuses, references on comparability refer only to the United States. Please refer to the appropriate technical documentation for Puerto Rico for comparability statements pertaining to 1990 and earlier censuses.

AGE

The data on age, which was asked of all people, were derived from answers to the long-form questionnaire Item 4 and short-form questionnaire Item 6. The age classification is based on the age of the person in complete years as of April 1, 2000. The age of the person usually was derived from their date of birth information. Their reported age was used only when date of birth information was unavailable.

Data on age are used to determine the applicability of some of the sample 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.

Median age. Median age divides the age distribution into two equal parts: one-half of the cases falling below the median age and one-half above the median. Median age is computed on the basis of a single year of age standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median age is rounded to the nearest tenth. (For more information on medians, see "Derived Measures.")

Limitation of the data. The most general limitation for many decades has been the tendency of people to overreport ages or years of birth that end in zero or 5. This phenomenon is called "age heaping." In addition, the counts in the 1970 and 1980 censuses for people 100 years old and over were substantially overstated. So also were the counts of people 69 years old in 1970 and 79 years old in 1980. Improvements have been made since then in the questionnaire design and in the imputation procedures that have minimized these problems.

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. One reason this happened was that respondents were not specifically instructed to provide their age as of April 1, 1990. Another reason was that data collection efforts continued well past the census date. 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 people in most age groups were actually 1 year younger. For most single years of age, the misstatements were largely offsetting. The problem is most pronounced at age zero because people lost to age 1 probably were not fully offset by the inclusion of babies born after April 1, 1990. Also, there may have been more rounding up to age 1 to avoid reporting age as zero years. (Age in complete months was not collected for infants under age 1.)

The reporting of age 1 year older than true age on April 1, 1990, is likely to have been greater in areas where the census data were collected later in calendar year 1990. The magnitude of this problem was much less in the 1960, 1970, and 1980 censuses where age was typically derived from respondent data on year of birth and quarter of birth.

These shortcomings were minimized in Census 2000 because age was usually calculated from exact date of birth and because respondents were specifically asked to provide their age as of April 1, 2000. (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 were 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 2000, each individual has both an age and an exact date 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, people 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 "Accuracy of the Data.")

ANCESTRY

The data on ancestry were derived from answers to long-form questionnaire Item 10, which was asked of a sample of the population. The data represent self-classification by people according to the ancestry group or groups with which they most closely identify. Ancestry refers to a person's ethnic origin or descent, "roots," heritage, or the place of birth of the person, the person's parents, or their 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 German 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. Also, the question was intended to provide data for groups that were not included in the Hispanic origin and race questions. Official Hispanic origin data come from long-form questionnaire Item 5, and official race data come from long-form questionnaire Item 6. Therefore, although data on all groups are collected, the ancestry data shown in these tabulations are for non-Hispanic and nonrace groups. Hispanic and race groups are included in the "Other groups" category for the ancestry tables in these tabulations.

The ancestry question allowed respondents to report one or more ancestry groups, although only the first two were coded. 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," "Greek Cypriote," and "Scotch Irish" 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," were coded as a single ancestry using the more specific 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 unclassifiable ethnic identity (for example, "multinational," "adopted," or "I have no idea"), the answer was included in tabulation category "Unclassified or not reported."

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

Presentation Based on People

Single ancestries reported — Includes all people who reported only one ancestry group. Included in this category are people with multiple-term responses such as "Greek Cypriote" who are assigned a single code.

Multiple ancestries reported — Includes all people who reported more than one group and were assigned two ancestry codes.

Ancestry unclassified — Includes all people who provided a response that could not be assigned an ancestry code because they provided unclear entries or entries that represent religious groups.

Presentation Based on Responses

First ancestry reported — Includes the first response of all people 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 people who reported a multiple ancestry. Thus, the count for Danish in this category includes all people who reported Danish as the second response, regardless of the first response provided.

Total ancestries reported or total ancestries tallied — 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.

An automated coding system was used for coding ancestry in Census 2000. This greatly reduced the potential for error associated with a clerical review. Specialists with knowledge of the subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses. The code list used in Census 2000, containing over 1,000 categories, reflects the results of the Census Bureau's experience with the 1990 ancestry question, research, and consultation 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 Italian category includes the responses of Sicilian and Tuscan, as well as a number of other responses.

Limitation of the data. Although some people consider religious affiliation a component of ethnic identity, the ancestry question was not designed to collect any information concerning religion. Thus, if a religion was given as an answer to the ancestry question, it was listed in the "Other groups" category.

Ancestry should not be confused with a person's place of birth, although a person's place of birth and ancestry may be the same (see "Place of Birth").

The ancestry data in these tabulations are limited to groups that were not shown in the Hispanic origin and race tabulations. For example, since Mexican is shown in the Hispanic origin tables, it is not shown in the ancestry tables. Likewise, since Korean is shown in the race tables, it is not shown in the ancestry tables. Hispanic and race groups are included in the "Other groups" category for the ancestry tables in these tabulations.

Unlike other census questions, there was no imputation for nonresponse to the ancestry question.

Comparability. The ancestry question was first introduced in 1980 as "What is this person's ancestry?" In 1990, the question was changed to "What is this person's ancestry or ethnic origin?" to improve understanding and response. This question was used again in Census 2000.

The ancestry groups used as examples have changed over time. The changes were introduced to avoid or to minimize example-induced responses, and to ensure broad geographic and group coverage.

CITIZENSHIP STATUS

The data on citizenship were derived from answers to long-form questionnaire Item 13, which was asked of a sample of the population. On the stateside questionnaire, respondents were asked to select one of five categories: (1) born in the United States, (2) born in Puerto Rico or a U.S. Island Area (such as Guam), (3) born abroad of American parent(s), (4) naturalized citizen, (5) not a citizen. On the Puerto Rico questionnaire, respondents were asked to select one of five categories: (1) born in Puerto Rico, (2) born in a U.S. state, District of Columbia, Guam, the U.S. Virgin Islands, or the Northern Mariana Islands, (3) born abroad of American parent or parent(s), (4) U.S. citizen by naturalization, (5) not a citizen of the United States. People not reporting citizenship were assigned citizenship based on a set of criteria including the citizenship status of other household members and place of birth. (See "Place of Birth.")

Citizen. This category includes respondents who indicated that they were born in the United States, Puerto Rico, a U.S. Island Area, or abroad of American parent or parents. People who indicated that they were U.S. citizens through naturalization are also citizens.

Not a citizen. This category includes respondents who indicated that they were not U.S. citizens.

Native. The native population includes people born in the United States, Puerto Rico, or the U.S. Island Areas (such as Guam). People who were born in a foreign country but have at least one American (U.S. citizen) parent also are included in this category. The native population includes anyone who was a U.S. citizen at birth.

Foreign born. The foreign-born population includes all people who were not U.S. citizens at birth. Foreign-born people are those who indicated they were either a U.S. citizen by naturalization or they were not a citizen of the United States.

Census 2000 does not ask about immigration status. The population surveyed includes all people who indicated that the United States was their usual place of residence on the census date. The foreign-born population includes: immigrants (legal permanent residents), temporary migrants (e.g., students), humanitarian migrants (e.g., refugees), and unauthorized migrants (people illegally residing in the United States).

The foreign-born population is shown by selected area, country, or region of birth. The places of birth shown in data products were chosen based on the number of respondents who reported that area or country of birth. (See "Place of Birth.")

Comparability. The citizenship status questions for the 2000 decennial census and the 1990 decennial census are identical.

DISABILITY STATUS

The data on disability status were derived from answers to long-form questionnaire Items 16 and 17. Item 16 was a two-part question that asked about the existence of the following long-lasting conditions: (a) blindness, deafness, or a severe vision or hearing impairment (sensory disability) and (b) a condition that substantially limits one or more basic physical activities, such as walking, climbing stairs, reaching, lifting, or carrying (physical disability). Item 16 was asked of a sample of the population 5 years old and over.

Item 17 was a four-part question that asked if the individual had a physical, mental, or emotional condition lasting 6 months or more that made it difficult to perform certain activities. The four activity categories were: (a) learning, remembering, or concentrating (mental disability); (b) dressing, bathing, or getting around inside the home (self-care disability); (c) going outside the home alone to shop or visit a doctor's office (going outside the home disability); and (d) working at a job or business (employment disability). Categories 17a and 17b were asked of a sample of the population 5 years old and over; 17c and 17d were asked of a sample of the population 16 years old and over.

For data products that use the items individually, the following terms are used: sensory disability for 16a, physical disability for 16b, mental disability for 17a, self-care disability for 17b, going outside the home disability for 17c, and employment disability for 17d.

For data products that use a disability status indicator, individuals were classified as having a disability if any of the following three conditions were true: (1) they were 5 years old and over and had a response of "yes" to a sensory, physical, mental or self-care disability; (2) they were 16 years old and over and had a response of "yes" to going outside the home disability; or (3) they were 16 to 64 years old and had a response of "yes" to employment disability.

Comparability. The 1990 census data products did not include a general disability status indicator. Furthermore, a comparable indicator could not be constructed since the conceptual framework of the 1990 census was more limited. The questionnaire included only three types of disability in questions with four subparts. The questions asked about whether an individual had a condition that had lasted for 6 months or more and that (1) limited the kind or amount of work that he or she could do at a job, (2) prevented the individual from working at a job, (3) made it difficult to go outside the home alone (for example, to shop or visit a doctor's office), and (4) made it difficult to take care of his or her own personal needs, such as bathing, dressing, or getting around inside the home. The 1990 disability questions were asked on the long form questionnaire of the population 15 years old and over.

EDUCATIONAL ATTAINMENT

Data on educational attainment were derived from answers to long-form questionnaire Item 9, which was asked of a sample of the population. Data on attainment are tabulated for the population 25 years old and over. However, when educational attainment is cross-tabulated by other variables, the universe may change. (For example, when educational attainment is crossed by disability status, the data are tabulated for the civilian noninstitutionalized population 18 to 34 years old.) People are classified according to the highest degree or level of school completed.

The order in which degrees were listed on the questionnaire suggested that doctorate degrees were "higher" than professional school degrees, which were "higher" than master's degrees. The question included instructions for people currently enrolled in school to report the level of the previous grade attended or the highest degree received. Respondents who did not report educational attainment or enrollment level were assigned the attainment of a person of the same age, race, Hispanic or Latino origin, occupation and sex, where possible, who resided in the same or a nearby area. Respondents who filled more than one box were edited to the highest level or degree reported.

The question included a response category that allowed respondents to report completing the 12th grade without receiving a high school diploma. It allowed people 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, to be reported as "high school graduate(s)." The category "Associate degree" included people whose highest degree is an associate degree, which generally requires 2 years of college level work and is either in an occupational program that prepares them for a specific occupation, or an academic program primarily in the arts and sciences. The course work may or may not be transferable to a bachelor's degree. Master's degrees include the traditional MA and MS degrees and field-specific degrees, such as MSW, MEd, MBA, MLS, and MEng. Some examples of professional degrees include medicine, dentistry,

chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology. Vocational and technical training, such as barber school training; business, trade, technical, and vocational schools; or other training for a specific trade, are specifically excluded.

High school graduate or higher. This category includes people whose highest degree was a high school diploma or its equivalent, people who attended college but did not receive a degree, and people who received a college, university, or professional degree. People who reported completing the 12th grade but not receiving a diploma are not high school graduates.

Not enrolled, not high school graduate. This category includes people of compulsory school attendance age or above who were not enrolled in school and were not high school graduates. These people may be referred to as "high school dropouts." However, there is no criterion regarding when they "dropped out" of school, so they may have never attended high school.

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 1950 to 1980 censuses, a two-part question was used to construct highest grade or year of school completed. The question asked (1) the highest grade of school attended and (2) whether that grade was finished. For people who have not attended college, the response categories in the current educational attainment question should produce data that are comparable to data on highest grade completed from earlier censuses. For people who attended college, there is less comparability between years of school completed and highest degree.

Beginning in 1990, the response categories for people 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 1990 census suggests that these terms were more distinct than in earlier decades, and this change may have threatened the ability to estimate the number of "college graduates" from the number of people 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 the 2000 and 1990 censuses with data from the earlier censuses should be made with great caution.

Changes between 1990 and Census 2000 were slight. The two associate degree categories in 1990 were combined into one for Census 2000. "Some college, no degree" was split into two categories, "Some college credit, but less than 1 year," and "1 or more years of college, no degree." Prior to 1990, the college levels reported began with "Completed 1 year of college." Beginning in 1990, the first category was "Some college, no degree," which allowed people with less than 1 year of college to be given credit for college. Prior to 1990, they were included in "High school, 4 years." The two revised categories will accommodate comparisons with either data series and allow the tabulation of students who completed at least 1 year of college, as some data users wish. This will not change the total number who completed some college.

The category "12th grade, no diploma" was counted as high school completion or "Completed high school, 4 years" prior to 1990 and as "Less than high school graduate" in 1990 and 2000. In the 1960 and subsequent censuses, people 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, people for whom educational attainment was not reported were not allocated.

In censuses prior to 1990, "median school years completed" was used as a summary measure of educational attainment. Using the current educational attainment question, 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 that can be calculated from the present data and offer quite readily interpretable measures of differences between population subgroups.

EMPLOYMENT STATUS

The data on employment status (referred to as labor force status in previous censuses), were derived from answers to long-form questionnaire Items 21and 25, which were asked of a sample of the population 15 years old and over. The series of questions on employment status was designed to identify, in this sequence: (1) people who worked at any time during the reference week; (2) people who did not work during the reference week, but who had jobs or businesses from which they were temporarily absent (excluding people on layoff); (3) people on temporary layoff who expected to be recalled to work within the next 6 months or who had been given a date to return to work, and who were available for work during the reference week; and (4) people who did not work during the reference week, who had looked for work during the reference week or the three previous weeks, and who were available for work during the reference week. (For more information, see "Reference Week.")

The employment status data shown in Census 2000 tabulations relate to people 16 years old and over. In the 1940, 1950, and 1960 censuses, employment status data were presented for people 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 people 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 who had jobs or businesses from which they were temporarily absent because of illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are people whose only activity consisted of work around their own house (painting, repairing, or own home housework) or unpaid volunteer work for religious, charitable, and similar organizations. Also excluded are all institutionalized people and people on active duty in the United States Armed Forces.

Civilian employed. This term is defined exactly the same as the term "employed" above.

Unemployed. All civilians 16 years old and over were classified as unemployed if they were neither "at work" nor "with a job but not at work" during the reference week, were looking for work during the last 4 weeks, and were available to start a job. Also included as unemployed were civilians 16 years old and over who: did not work at all during the reference week, were on temporary layoff from a job, had been informed that they would be recalled to work within the next 6 months or had been given a date to return to work, and were available to return to work during the reference week, except for temporary illness. Examples of job seeking activities were:

- 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 people classified as employed or unemployed in accordance with the criteria described above.

Labor force. All people classified in the civilian labor force (i.e., "employed" and "unemployed" people), plus members of the U.S. Armed Forces (people on active duty with the United States Army, Air Force, Navy, Marine Corps, or Coast Guard).

Not in labor force. All people 16 years old and over who are not classified as members of the labor force. This category consists mainly of students, individuals taking care of home or family, retired workers, seasonal workers enumerated in an off-season who were not looking for work, institutionalized people (all institutionalized people are placed in this category regardless of any work activities they may have done in the reference week), and people doing only incidental unpaid family work (fewer than 15 hours during the reference week).

Worker. The terms "worker" and "work" appear in connection with several subjects: employment status, journey-to-work, class of worker, and work status in 1999. Their meaning varies and, therefore, should be determined by referring to the definition of the subject in which they appear. When used in the concepts "Workers in Family," "Workers in Family in 1999," and "Full-Time, Year-Round Workers," the term "worker" relates to the meaning of work defined for the "Work Status in 1999" subject.

Full-time, year-round workers. See "Work status in 1999."

Limitation of the data. The census may understate the number of employed people because people who have irregular, casual, or unstructured jobs sometimes report themselves as not working. The number of employed people "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 people who were on vacation or sick leave erroneously reported themselves as working. This problem has no effect on the total number of employed people. The reference week for the employment data is not the same calendar week for all people. Since people can change their employment status from 1 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 "Reference Week.")

Note: The Census Bureau is aware there may be a problem or problems in the employment-status data of Census 2000 Summary File 3 (including tables P38, P43-P46, P149A-I, P150A-I, PCT35, PCT69A-I, and PCT70A-I). The labor force data for some places where colleges are located appear to overstate the number in the labor force, the number unemployed, and the percent unemployed, probably because of reporting or processing error. The exact cause is unknown, but the Census Bureau will continue to research the problem.

Comparability. The questionnaire items and employment status concepts for Census 2000 are essentially the same as those used in the 1970 to 1990 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. People 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, people who work for more than one establishment may be counted more than once. Moreover, some establishment-based tabulations may exclude private household workers, unpaid family workers, and self-employed people, but may include workers less than 16 years old. Census tabulations count people who had a job but were not at work among the employed, but these people may be excluded from employment figures based on establishment payroll reports. Furthermore, census employment tabulations include people on the basis of place of residence regardless of where they work; whereas, establishment data report people 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.

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 people who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and people 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. People working only a few hours during the week and people 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, which is the official source of the monthly national unemployment rate. However, some differences may exist because of variations between the two data sources in enumeration and processing techniques.

GRADE IN WHICH ENROLLED

The data on grade or level in which enrolled were derived from long-form questionnaire Item 8b, which was asked of a sample of the population. People who were enrolled in school were classified as enrolled in "Nursery school, preschool," "Kindergarten," "Grade 1 to 4" or "Grade 5 to 8," "Grade 9 to 12," "College undergraduate years (freshman to senior)" or "Graduate and professional school (for example: medical, dental, or law school)."

Comparability. 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 and Census 2000, the data from these sources cannot be disaggregated to show single grade of enrollment as in previous censuses.

In the 1990 census, people who were enrolled in school were classified as enrolled in "preprimary school," "elementary or high school," or "college," according to their response to long-form questionnaire Item 12 (years of school completed or highest degree received). Those who were enrolled and reported completing nursery school or less were classified as enrolled in "preprimary school," which includes kindergarten. Similarly, those enrolled who had completed at least kindergarten, but not high school, were classified as enrolled in elementary or high school. The enrolled who also reported completing high school or some college or having received a post-secondary degree were classified as enrolled in "college." Those who reported completing the twelfth grade but receiving "NO DIPLOMA" were classified as enrolled in high school.

The Census 2000 question is the first to be asked only of the enrolled and does not serve to measure both year of enrollment and educational attainment. While the attainment item in 1990 served the needs for educational attainment data better than the question used in earlier censuses, it did not serve reporting of enrollment level well.

GRANDPARENTS AS CAREGIVERS

The data on grandparents as caregivers were derived from answers to long-form questionnaire Item 19, which was asked of a sample of the population 15 years old and over. Data were collected on whether a grandchild lives in the household, whether the grandparent has responsibility for the basic needs of the grandchild, and the duration of that responsibility. Because of the very low number of people under 30 years old who are grandparents, data are only shown for people 30 years old and over.

Existence of a grandchild in the household. This was determined by a "Yes" answer to the sample question, "Does this person have any of his/her own grandchildren under the age of 18 living in this house or apartment?"

Responsibility for basic needs. This question determines if the grandparent is financially responsible for food, shelter, clothing, day care, etc., for any or all grandchildren living in the household.

Duration of responsibility. The answer refers to the grandchild for whom the grandparent has been responsible for the longest period of time. Duration categories ranged from less than 6 months to 5 years or more.

Comparability. These questions are new to Census 2000. The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 mandated that the decennial census collect data on this subject.

GROUP QUARTERS

The group quarters population includes all people not living in households. Two general categories of people in group quarters are recognized: (1) the institutionalized population and (2) the noninstitutionalized population.

Institutionalized population. The institutionalized population includes people under formally authorized, supervised care or custody in institutions at the time of enumeration; such as correctional institutions, nursing homes, and juvenile institutions.

Noninstitutionalized population. The noninstitutionalized population includes all people who live in group quarters other than institutions, such as college dormitories, military quarters, and group homes. Also, included are staff residing at institutional group quarters.

For a complete description of the types of group quarters included in Census 2000, see the Technical Documentation for Summary File 1, 2000 Census of Population and Housing, at http://www.census.gov/prod/cen2000/doc/sf1.pdf.

HISPANIC OR LATINO

The data on the Hispanic or Latino population, which was asked of all people, were derived from answers to long-form questionnaire Item 5, and short-form questionnaire Item 7. The terms "Spanish," "Hispanic origin," and "Latino" are used interchangeably. Some respondents identify with all three terms, while others may identify with only one of these three specific terms. Hispanics or Latinos who identify with the terms "Spanish," "Hispanic," or "Latino" are those who classify themselves in one of the specific Hispanic or Latino categories listed on the questionnaire — "Mexican," "Puerto Rican," or "Cuban" — as well as those who indicate that they are "other Spanish, Hispanic, or Latino." People who do not identify with one of the specific origins listed on the questionnaire but indicate that they are "other Spanish, Hispanic, or Latino" are those whose origins are from Spain, the Spanish-speaking countries of Central or South America, the Dominican Republic, or people identifying themselves generally as Spanish, Spanish-American, Hispanic, Hispano, Latino, and so on. All write-in responses to the "other Spanish/Hispanic/Latino" category were coded.

Origin can be viewed as the heritage, nationality group, lineage, or country of birth of the person or the person's parents or ancestors before their arrival in the United States. People who identify their origin as Spanish, Hispanic, or Latino may be of any race.

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

If an individual could not provide a Hispanic origin response, their origin was assigned using specific rules of precedence of household relationship. For example, if origin was missing for a natural-born daughter in the household, then either the origin of the householder, another natural-born child, or the spouse of the householder was assigned. If Hispanic origin was not reported for anyone in the household, the origin of a householder in a previously processed household with the same race was assigned. This procedure is a variation of the general imputation procedures described in "Accuracy of the Data," and is similar to those used in 1990, except that for Census 2000, race and Spanish surnames were used to assist in assigning an origin. (For more information, see the "Comparability" section below.)

Comparability. There are two important changes to the Hispanic origin question for Census 2000. First, the sequence of the race and Hispanic origin questions for Census 2000 differs from that in 1990; in 1990, the race question preceded the Hispanic origin question. Testing prior to Census 2000 indicated that response to the Hispanic origin question could be improved by

placing it before the race question without affecting the response to the race question. Second, there is an instruction preceding the Hispanic origin question indicating that respondents should answer both the Hispanic origin and the race questions. This instruction was added to give emphasis to the distinct concepts of the Hispanic origin and race questions and to emphasize the need for both pieces of information.

Furthermore, there has been a change in the processing of the Hispanic origin and race responses. In 1990, the Hispanic origin question and the race question had separate edits; therefore, although information may have been present on the questionnaire, it was not fully utilized due to the discrete nature of the edits. However, for Census 2000, there was a joint race and Hispanic origin edit which for example, made use of race responses in the Hispanic origin question to impute a race if none was given.

HOUSEHOLD TYPE AND RELATIONSHIP

Household

A household includes all of the people who occupy a housing unit. (People not living in households are classified as living in group quarters.) A housing unit is a house, an apartment, a mobile home, a group of rooms, or a single room occupied (or if vacant, intended for occupancy) as separate living quarters. Separate living quarters are those in which the occupants live separately from any other people in the building and that 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 people who share living quarters.

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.

Average household size. A measure obtained by dividing the number of people in households by the total number of households (or householders). In cases where household members are tabulated by race or Hispanic origin, household members are classified by the race or Hispanic origin of the householder rather than the race or Hispanic origin of each individual. Average household size is rounded to the nearest hundredth.

Relationship to Householder

Householder. The data on relationship to householder were derived from the question, "How is this person related to Person 1," which was asked of Persons 2 and higher in housing units. One person in each household is designated as the householder (Person 1). In most cases, the householder is the person, or one of the people, in whose name the home is owned, being bought, or rented. If there is no such person in the household, any adult household member 15 years old and over could be designated as the householder (i.e., Person 1).

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

Spouse (husband/wife). A spouse (husband/wife) is a person married to and living with a householder. People in formal marriages, as well as people in common-law marriages, are included. The number of spouses is equal to the number of "married-couple families" or "married-couple households" in 100-percent tabulations. Marital status categories cannot be inferred from the 100-percent tabulations since the marital status question was not included on the 100-percent form. In sample tabulations, the number of spouses may not be equal to the number of married-couple households due to the differences in the weighting procedures for sample data.

Child. A child is a son or daughter by birth, a stepchild, or an 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 son/daughter. Natural-born son/daughter includes a son or daughter of the householder by birth, regardless of the age of the child.

Adopted son/daughter. Adopted son/daughter includes a son or daughter of the householder by legal adoption, regardless of the age of the child. If a stepson/stepdaughter of the householder has been legally adopted by the householder, the child is then classified as an adopted child.

Stepson/stepdaughter. Stepson/stepdaughter includes a son or daughter of the householder through marriage but not by birth, regardless of the age of the child. If a stepson/stepdaughter of the householder has been legally adopted by the householder, the child is then classified as an adopted child.

Own child. Own child is a never-married child under 18 years who is a son or daughter of the householder by birth, marriage (a stepchild), or adoption. For 100-percent tabulations, own children consists of all sons/daughters of householders who are under 18 years old. For sample data, own children consists of sons/daughters of householders who are under 18 years old and who have never been married. Therefore, numbers of own children of householders may be different in these two tabulations since marital status was not collected as a 100-percent item in Census 2000.

In certain tabulations, own children are further classified as living with two parents or with one parent only. Own children living with two parents are by definition found only in married-couple families. In a subfamily, an "own child" is a child under 18 years old who is a natural-born child, stepchild, or an adopted child of a mother in a mother-child subfamily, a father in father-child subfamily, or either spouse in a married-couple subfamily. (Note: In the tabulation under "EMPLOYMENT STATUS" of own children under 6 years by employment status of parents, the number of "own children" includes any child under 6 years old in a family or a subfamily who is a son or daughter, by birth, marriage, or adoption, of a member of the householder's family, but not necessarily of the householder.)

Related children. Related children include the sons and daughters of the householder (including natural-born, adopted, or stepchildren) and all other people under 18 years old, regardless of marital status, in the household, 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. Other relatives include 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. A grandchild is a grandson or granddaughter of the householder.

Brother/sister. Brother/sister refers to 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. Parent refers to the father or mother of the householder, including a stepparent or adoptive parent. Fathers-in-law and mothers-in-law are included in the "Parent-in-law" category on the questionnaire.

Parent-in-law. A parent-in-law is the mother-in-law or father-in-law of the householder.

Son-in-law/daughter-in-law. A son-in-law/daughter-in-law, by definition, is a spouse of the child of the householder.

Other relatives. Other relatives include 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, cousin, and so forth).

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

Roomer, boarder. A roomer or boarder is a person who lives in a room in the household of Person 1 (householder). Some sort of cash or noncash payment (e.g., chores) is usually made for their living accommodations.

Housemate or roommate. A housemate or roommate is a person who is not related to the householder and who shares living quarters primarily to share expenses.

Unmarried partner. An unmarried partner is a person who is not related to the householder, who shares living quarters, and who has a close personal relationship with the householder.

Foster child. A foster child is a person who is under 18 years old placed by the local government in a household to receive parental care. They may be living in the household for just a brief period or for several years. Foster children are nonrelatives of the householder. If the foster child is also related to the householder, the child should be classified as that specific relative.

Other nonrelatives. Other nonrelatives includes individuals who are not related by birth, marriage, or adoption to the householder and who are not described by the categories given above.

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 includes a householder and one or more other people living in the same household who are related to the householder by birth, marriage, or adoption. All people in a household who are related to the householder are regarded as members of his or her family. A family household may contain people not related to the householder, but those people are not included as part of the householder's family in census tabulations. Thus, the number of family households is equal to the number of families, but family households may include more members than do families. A household can contain only one family for purposes of census tabulations. Not all households contain families since a household may be comprised of a group of unrelated people or of one person living alone.

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

Married-couple family. This category includes 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. This category includes a family with a male maintaining a household with no wife of the householder present.

Female householder, no husband present. This category includes a family with a female maintaining a household with no husband of the householder present.

Nonfamily household. This category includes a householder living alone or with nonrelatives only.

Average family size. A measure obtained by dividing the number of people in families by the total number of families (or family householders). In cases where this measure is tabulated by race or Hispanic origin, the race or Hispanic origin refers to that of the householder rather than to the race or Hispanic origin of each individual. Average family size is rounded to the nearest hundredth.

Subfamily

A subfamily is a married couple with or without own children under 18 years old who are never-married, or a single parent with one or more own never-married children under 18 years old. A subfamily does not maintain their own household, but lives in a household where the householder or householder's spouse is a relative. Subfamilies are defined during processing of sample data.

In some labor force tabulations, both one-parent families and one-parent subfamilies are included in the total number of children living with one parent, while both married-couple families and married-couple subfamilies are included in the total number of children living with two parents.

Unmarried-Partner Household

An unmarried-partner household is a household that includes a householder and an "unmarried partner." An "unmarried partner" can be of the same 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. An unmarried-partner household may also be a family household or a nonfamily household, depending on the presence or absence of another person in the household who is related to the householder. There may be only one unmarried-partner per household, and an unmarried partner may not be included in a married-couple household as the householder cannot have both a spouse and an unmarried partner.

Comparability. The 1990 relationship category, "Natural-born or adopted son/daughter" has been replaced by "Natural-born son/daughter" and "Adopted son/daughter." The following categories were added in Census 2000: "Parent-in-law" and "Son-in-law/daughter-in-law." The 1990 nonrelative category, "Roomer, boarder, or foster child" was replaced by two categories: "Roomer, boarder" and "Foster child." In 2000, foster children had to be in the local government's foster care system to be so classified. In 1990, foster children were estimated to be those children in households who were not related to the householder and for whom there were no people 18 years old and over who may have been their parents. In 1990, stepchildren who were adopted by the householder were still classified as stepchildren. In 2000, stepchildren who were legally adopted by the householder were classified as adopted children. Own children shown in 100-percent tabulations may be of any marital status. For comparability with previous censuses, own children shown for sample data are still restricted to never-married children. Some tables may show relationship to householder and be labeled "child." These tabulations include all marital status categories of natural-born, adopted, or stepchildren. Because of changes in editing procedures, same sex unmarried-partner households in 1990 should not be compared with same sex unmarried-partner households in Census 2000.

INCOME IN 1999

The data on income in 1999 were derived from answers to long-form questionnaire Items 31 and 32, which were asked of a sample of the population 15 years old and over. "Total income" is the sum of the amounts reported separately for wage or salary income; net self-employment income; interest, dividends, or net rental or royalty income or income from estates and trusts; social security or railroad retirement income; Supplemental Security Income (SSI); public assistance or welfare payments; retirement, survivor, or disability pensions; and all other income.

"Earnings" are defined as the sum of wage or salary income and net income from self-employment. "Earnings" represent the amount of income received regularly for people 16 years old and over 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: capital gains, 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 individuals, etc.; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; and gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

Income Type in 1999

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

1. **Wage or salary income.** Wage or salary income includes total money earnings received for work performed as an employee during the calendar year 1999. 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. **Self-employment income.** Self-employment income includes both farm and nonfarm self-employment income. *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 include costs of goods purchased, rent, heat, light, power, depreciation charges, wages and salaries paid, business taxes (not personal income taxes), etc. *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.

3. **Interest, dividends, or net rental income.** Interest, dividends, 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.

4. **Social security income.** Social security income includes social security pensions and survivors benefits, 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.

5. **Supplemental Security Income (SSI).** Supplemental Security Income (SSI) is a nationwide U.S. assistance program administered by the Social Security Administration that guarantees a minimum level of income for needy aged, blind, or disabled individuals. The census questionnaire for Puerto Rico asked about the receipt of SSI; however, SSI is not a federally administered program in Puerto Rico. Therefore, it is probably not being interpreted by most respondents as the same as SSI in the United States. The only way a resident of Puerto Rico could have appropriately reported SSI would have been if they lived in the United States at any time during calendar year 1999 and received SSI.

6. **Public assistance income.** Public assistance income includes general assistance and Temporary Assistance to Needy Families (TANF). Separate payments received for hospital or other medical care (vendor payments) are excluded. This does not include Supplemental Security Income (SSI).

7. **Retirement income.** Retirement income includes: (1) retirement pensions and survivor benefits from a former employer; labor union; or federal, state, or local government; and the

U.S. military; (2) income from workers' compensation; disability income from 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. This does not include social security income.

8. **All other income.** All other income includes unemployment compensation, Veterans' Administration (VA) payments, alimony and child support, contributions received periodically from people not living in the household, military family allotments, and other kinds of periodic income other than earnings.

Income of households. This includes the income of the householder and all other individuals 15 years old and over in the household, whether they are related to the householder or not. Because many households consist of only one person, average household income is usually less than average family income. Although the household income statistics cover calendar year 1999, the characteristics of individuals and the composition of households refer to the time of enumeration (April 1, 2000). Thus, the income of the household does not include amounts received by individuals who were members of the household during all or part of calendar year 1999 if these individuals no longer resided in the household at the time of enumeration. Similarly, income amounts reported by individuals who did not reside in the household during 1999 but who were members of the household at the time of enumeration are included. However, the composition of most households was the same during 1999 as at the time of enumeration.

Income of families. In compiling statistics on family income, the incomes of all members 15 years old and over related to the householder are summed and treated as a single amount. Although the family income statistics cover calendar year 1999, the characteristics of individuals and the composition of families refer to the time of enumeration (April 1, 2000). Thus, the income of the family does not include amounts received by individuals who were members of the family during all or part of calendar year 1999 if these individuals no longer resided with the family at the time of enumeration. Similarly, income amounts reported by individuals who did not reside with the family during 1999 but who were members of the family at the time of enumeration are included. However, the composition of most families was the same during 1999 as at the time of enumeration.

Income of individuals. Income for individuals is obtained by summing the eight types of income for each person 15 years old and over. The characteristics of individuals are based on the time of enumeration (April 1, 2000), even though the amounts are for calendar year 1999.

Median income. The median divides the income distribution into two equal parts: one-half of the cases falling below the median income and one-half above the median. For households and families, the median income is based on the distribution of the total number of households and families including those with no income. The median income for individuals is based on individuals 15 years old and over with income. Median income for households, families, and individuals is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median income is rounded to the nearest whole dollar. Median income figures are calculated using linear interpolation if the width of the interval containing the estimate is $2,500 or less. If the width of the interval containing the estimate is greater than $2,500, Pareto interpolation is used. (For more information on medians and interpolation, see "Derived Measures.")

Aggregate income. Aggregate income is the sum of all incomes for a particular universe. Aggregate income is subject to rounding, which means that all cells in a matrix are rounded to the nearest hundred dollars. (For more information, see "Aggregate" under "Derived Measures.")

Mean income. Mean income is the amount obtained by dividing the aggregate 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. (The aggregate used to calculate mean income is rounded. For more information, see "Aggregate income.")

For the various types of income, the means are based on households having those types of income. For households and families, the mean income is based on the distribution of the total number of households and families including those with no income. The mean income for individuals is based on individuals 15 years old and over with income. Mean income is rounded to the nearest whole dollar.

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. (For more information on means, see "Derived Measures.")

Earnings. Earnings are defined as the sum of wage or salary income and net income from self-employment. "Earnings" represent the amount of income received regularly for people 16 years old and over before deductions for personal income taxes, social security, bond purchases, union dues, medicare deductions, etc.

Median earnings. The median divides the earnings distribution into two equal parts: one-half of the cases falling below the median earnings and one-half above the median. Median earnings is restricted to individuals 16 years old and over and is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median earnings figures are calculated using linear interpolation if the width of the interval containing the estimate is $2,500 or less. If the width of the interval containing the estimate is greater than $2,500, Pareto interpolation is used. (For more information on medians and interpolation, see "Derived Measures.")

Aggregate earnings. Aggregate earnings are the sum of wage/salary and net self-employment income for a particular universe of people 16 years old and over. Aggregate earnings are subject to rounding, which means that all cells in a matrix are rounded to the nearest hundred dollars. (For more information, see "Aggregate" under "Derived Measures.")

Mean earnings. Mean earnings is calculated by dividing aggregate earnings by the population 16 years old and over with earnings. (The aggregate used to calculate mean earnings is rounded. For more information, see "Aggregate earnings.") Mean earnings is rounded to the nearest whole dollar. (For more information on means, see "Derived Measures.")

Per capita 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. (The aggregate used to calculate per capita income is rounded. For more information, see "Aggregate" under "Derived Measures.") Per capita income is rounded to the nearest whole dollar. (For more information on means, see "Derived Measures.")

Limitation of the data. Since answers to income questions are frequently based on memory and not on records, many people tended to forget minor or sporadic 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 public assistance, interest, dividends, and net rental income.

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 people 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 self-employment income. Also, if any respondent reported total income only, the amount was generally assigned to one of the types 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 "Accuracy of the Data.")

In income tabulations for households and families, the lowest income group (for example, less than $10,000) includes units that were classified as having no 1999 income. Many of these were living on income "in kind," savings, or gifts, were newly created families, or were 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 that was not reported in the census.

Comparability. The income data collected in the 1970, 1980, and 1990 censuses are similar to Census 2000 data, but there are variations in the detail of the questions. In 1990, income information for 1989 was collected from people in approximately 17 percent of all housing units and group quarters. Each person 15 years old and over 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 or railroad retirement income
- Supplemental Security Income (SSI), Aid to Families With Dependent Children (AFDC), or other public assistance income
- Retirement, survivor, or disability income
- Income from all other sources

Since the number of respondents reporting farm self-employment income has become smaller over the years, the farm and nonfarm self-employment items were combined into one item for Census 2000. Data users are still able to obtain an estimate of "farm self-employment" income by looking at net self-employment income in combination with other labor force related questions such as "occupation of longest job." Supplemental Security Income (SSI) was asked separately from other public assistance income or welfare received from a state or local welfare office in Census 2000.

Between the 1990 census and Census 2000, there were minor differences in the processing of the data. In both censuses, all people with missing values in one or more of the detailed type of income items 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 2000 and 1990, all nonrespondents with income not reported (whether householders or other people) were assigned the reported income of people with similar characteristics. (For more information on imputation, see "Accuracy of the Data.")

In 1980, income information for 1979 was collected from people in approximately 19 percent of all housing units and group quarters. Each person 15 years old and over 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 or railroad retirement income
- Supplemental Security Income (SSI), Aid to Families With Dependent Children (AFDC), or other public assistance income
- Income from all other sources

There was a difference in the method of computer derivation of aggregate income from individual amounts. 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 and 2000 censuses, income amounts less than $999,999 were keyed to the nearest dollar. 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 14 years old and over and small group quarters (less than 15 people) and every fifth person in all other group quarters. Each person 14 years old and over was required to report:

- Wage or salary income
- Net nonfarm self-employment income
- Net farm self-employment income
- Social security or railroad retirement income
- Supplemental Security Income (SSI), Aid to Families With Dependent Children (AFDC), or other public assistance income
- 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 1960, data on income were obtained from all members 14 years old and over 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 1959. 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 people 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 1999 excluded the earnings of some civilian government employees, some employees of nonprofit organizations, workers covered by the Railroad Retirement Act, and people not covered by the program because of insufficient earnings. 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 people.

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 people without the assessment of specific charges, medicare payments, and the income of people who died or emigrated prior to April 1, 2000. On the other hand, the census income data include contributions for support received from people not residing in the same household if the income is received on a regular basis.

In comparing income data for 1999 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.

INDUSTRY, OCCUPATION, AND CLASS OF WORKER

The data on industry, occupation, and class of worker were derived from answers to long-form questionnaire Items 27, 28, and 29 respectively, which were asked of a sample of the population 15 years old and over. Information on industry relates to the kind of business conducted by a person's employing organization; occupation describes the kind of work a person does on the job.

For employed people, 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 during the reference week. For unemployed people, the data refer to their last job. The industry and occupation statistics are derived from the detailed classification systems developed for Census 2000 as described below.

Respondents provided the data for the tabulations by writing on the questionnaires descriptions of their industry and occupation. These descriptions were data captured and sent to an automated coder (computer 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 56 percent of the occupation entries. Those cases not coded by the computer were referred to clerical staff in the Census Bureau's National Processing Center in Jeffersonville, Indiana, for coding. The clerical staff converted the written questionnaire responses to codes by comparing these responses to entries in the *Alphabetical Index of Industries and Occupations*. For the industry code, these coders also referred to an Employer Name List. This list, prepared from the American Business Index (ABI), contained the names of business establishments and their North American Industrial Classification System (NAICS) codes converted to population census equivalents. This list facilitated coding and maintained industrial classification comparability.

Industry

The industry classification system used during Census 2000 was developed for the census and consists of 265 categories for employed people, classified into 14 major industry groups. From 1940 through 1990, the industrial classification has been based on the *Standard Industrial Classification (SIC) Manual*. The Census 2000 classification was developed from the 1997 North American Industry Classification System (NAICS) published by the Office of Management and Budget, Executive Office of the President. NAICS is an industry description system that groups establishments into industries based on the activities in which they are primarily engaged.

The NAICS differs from most industry classifications because it is a supply-based, or production-oriented economic concept. Census data, which were collected from households, differ in detail and nature from those obtained from establishment surveys. Therefore, the census classification system, while defined in NAICS terms, cannot reflect the full detail in all categories.

NAICS shows a more detailed hierarchical structure than that used for Census 2000. The expansion from 11 divisions in the SIC to 20 sectors in the NAICS provides groupings that are meaningful and useful for economic analysis. Various statistical programs that previously sampled or published at the SIC levels face problems with the coverage for 20 sectors instead of 11 divisions. These programs requested an alternative aggregation structure for production purposes which was approved and issued by the Office of Management and Budget on May 15, 2001, in the clarification Memorandum No. 2, "NAICS Alternate Aggregation Structure for Use by U.S. Statistical Agencies." Several census data products will use the alternative aggregation, while others, such as Summary File 3 and Summary File 4, will use more detail.

Occupation

The occupational classification system used during Census 2000 consists of 509 specific occupational categories for employed people arranged into 23 major occupational groups. This classification was developed based on the *Standard Occupational Classification (SOC) Manual: 2000,* which includes a hierarchical structure showing 23 major occupational groups divided into 96 minor groups, 449 broad groups, and 821 detailed occupations. For Census 2000, tabulations with occupation as the primary characteristic present several levels of occupational detail.

Some occupation groups are related closely to certain industries. Operators of transportation equipment, farm operators and workers, and healthcare providers account for major portions of their respective industries of transportation, agriculture, and health care. However, the industry categories include people in other occupations. For example, people employed in agriculture include truck drivers and bookkeepers; people employed in the transportation industry include mechanics, freight handlers, and payroll clerks; and people employed in the health care industry include occupations such as security guard and secretary.

Class of Worker

The data on class of worker were derived from answers to long-form questionnaire Item 29. The information on class of worker refers to the same job as a respondent's industry and occupation, categorizing people according to the type of ownership of the employing organization. The class of worker categories are defined as follows:

Private wage and salary workers. Private wage and salary workers include people 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 people 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."

Government workers. Government workers includes people who were employees of any federal, tribal, state, or local governmental unit, regardless of the activity of the particular agency. For some tabulations, the data were presented separately for federal (includes tribal), state, and local governments. Employees of foreign governments, the United Nations, or other formal international organizations were classified as "federal government," unlike the 1990 census when they were classified as "private not-for-profit."

Self-employed in own not incorporated business workers. Self-employed in own not incorporated business workers includes people who worked for profit or fees in their own unincorporated business, professional practice, or trade, or who operated a farm.

Unpaid family workers. Unpaid family workers includes people who worked 15 hours or more without pay in a business or on a farm operated by a relative.

Self-employed in own incorporated business workers. In tabulations, this category is included with private wage and salary workers because they are paid employees of their own companies.

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.

In some cases, respondents supplied industry, occupation, or class of worker descriptions that were not sufficiently specific for a precise classification or did not report on these items at all. 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, or vice versa.

Following the coding operations, there was a computer edit and an allocation process. The edit first determined whether a respondent was in the universe that 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 was 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 of the labor force and income data were blank, all of these economic items were assigned from one other person or one other household 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, the growth and decline in existing industries and occupations, and the desire of analysts and other users for more detail in the presentation of the data. Probably the greatest cause of noncomparability 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. The 1990 occupational classification system was essentially the same as the 1980 census. However, the industry classification had minor changes between 1980 and 1990 that reflected changes to the Standard Industrial Classification (SIC).

In Census 2000, both the industry and occupation classifications had major revisions to reflect changes to the North American Industrial Classification System (NAICS) and the Standard Occupational Classification (SOC). The conversion of the census classifications in 2000 means that the 2000 classification systems are not comparable to the classifications used in the 1990 census and earlier.

Other factors that affected data comparability over the decades include the universe to which the data referred (in 1970, the age cutoff for labor force was changed from 14 years old to 16 years old); the wording of the industry and occupation questions 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 were 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 Census 2000, as in 1980 and 1990, the "not reported" cases were assigned to individual categories. Therefore, the 1980, 1990, and Census 2000 data for individual categories include some numbers of people who would have been 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. Census Bureau, *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. Census Bureau, *1970 Occupation and Industry Classification Systems in Terms of Their 1960 Occupation and Industry Elements,* Technical Paper No. 26, 1972; and U.S. Census Bureau, *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, which is also used for Census 2000. 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., were classified as "private not-for-profit," rather than "Federal Government" as in 1970, 1980, and Census 2000. 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 Census 2000 and statistics from other sources is affected by many of the factors described in the "Employment Status" section. These factors are primarily geographic differences between residence and place of work, different dates of reference, and differences in counts because of dual job holdings. Industry data from population censuses cover all industries and all kinds of workers, whereas, data from establishments often exclude 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 people not in the labor force or people 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 long-form questionnaire Item 22, which was asked of a sample of the population 15 years old and over. This question was asked of people who indicated in question 21 that they worked at some time during the reference week. (For more information, see "Reference Week.")

Data were tabulated for workers 16 years old 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 name) 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 or foreign country, 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.

In areas where the workplace address was coded to the block level, people 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, people 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 minor civil divisions (MCDs) (generally, cities, towns, and townships) in 12 selected states (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin), based on the responses to the place-of-work question. The MCDs in these 12 states also serve as general-purpose local governments that generally can perform the same governmental functions as incorporated places. The U.S. Census Bureau presents data for the MCDs in all data products in which it provides data for places. 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.

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 people, the reference week for Census 2000 is the week ending with April 1, 2000. The lack of a uniform reference week means that the place-of-work data reported in Census 2000 do not exactly match the distribution of workplace locations observed or measured during an actual work week.

The place-of-work data are estimates of people 16 years old and over who were both employed and at work during the reference week (including people in the armed forces). People 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 people 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 2000 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. People 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.

Comparability. The wording of the question on place of work was substantially the same in Census 2000, the 1990 census, and the 1980 census. However, data on place of work from Census 2000 and 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 Census 2000 and 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. Census 2000 and 1990 census tabulations, therefore, do not contain a "not reported" category for the place-of-work data.

Comparisons between 1980, 1990, or Census 2000 data on the gross number of workers in particular commuting flows, or the total number of people 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 Census 2000 and the 1990 census, the "not reported" cases have been distributed among specific place-of-work destinations, instead of tallied in a separate category, as in 1980.

Means of Transportation to Work

The data on means of transportation to work were derived from answers to long-form questionnaire Item 23a, which was asked of a sample of the population 15 years old and over.

This question was asked of people who indicated in Question 21 that they worked at some time during the reference week. (For more information, see "Reference Week.") Means of transportation to work refers to the principal mode of travel or type of conveyance that the worker usually used to get from home to work during the reference week. Data were tabulated for workers 16 years old and over; that is, members of the armed forces and civilians who were at work during the reference week.

People 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. People 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 — drove alone" includes people who usually drove alone to work, as well as people who were driven to work by someone who then drove back home or to a nonwork destination during the reference week. The category "Car, truck, or van — carpooled" includes workers who reported that two or more people usually rode to work in the vehicle during the reference week. The category "Public transportation" includes workers who usually used a bus or trolley bus, streetcar or trolley car, subway or elevated, railroad, ferryboat, or taxicab during the reference week. Público is included in the "Public transportation" category in Puerto Rico. The category "Other means" includes workers who used a mode of travel that is not identified separately. 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 (for example, subway or elevated riders in a metropolitan area where there actually is no subway or elevated service). This result is largely due to people who worked during the reference week at a location that was different from their usual place of work (such as people away from home on business in an area where subway service was available) and people 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 a metropolitan area 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 long-form questionnaire Item 23b, which was asked of a sample of the population 15 years old and over. This question was asked of people 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 "Reference Week.") Data were tabulated for workers 16 years old and over; that is, members of the armed forces and civilians who were at work during the reference week.

Private vehicle occupancy refers to the number of people who usually rode to work in the vehicle during the reference week. The category "Drove alone," includes people who usually drove alone to work as well as people 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 people usually rode to work in the vehicle during the reference week.

Workers per car, truck, or van. This is obtained by dividing the number of people 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 2-person carpool as one-half of a vehicle, each person who reported being in a three-person carpool as one-third of a vehicle, and so on, and then summing all the vehicles. Workers per car, truck, or van is rounded to the nearest hundredth.

Time Leaving Home to Go to Work

The data on time leaving home to go to work were derived from answers to long-form questionnaire Item 24a, which was asked of a sample of the population 15 years old and over. This question was asked of people 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 "Reference Week.") Data were tabulated for workers 16 years old and over; that is, members of the armed forces and civilians who were at work during the reference week.

Travel Time to Work

The data on travel time to work were derived from answers to long-form questionnaire Item 24b, which was asked of a sample of the population 15 years old and over. This question was asked of people 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 each day 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 "Reference Week.") Data were tabulated for workers 16 years old and over; that is, members of the armed forces and civilians who were at work during the reference week.

Aggregate travel time to work (minutes). Aggregate travel time to work (minutes) is calculated by adding together all the number of minutes each worker traveled to work (one way) for specified travel times and/or means of transportation. Aggregate travel time to work is zero if the aggregate is zero, is rounded to 4 minutes if the actual aggregate is 1 to 7 minutes, and is rounded to the nearest multiple of 5 minutes for all other values (if the aggregate is not already evenly divisible by 5). (For more information, see "Aggregate" under "Derived Measures.")

Mean travel time to work (minutes). Mean travel time to work is the average travel time in minutes that workers usually took to get from home to work (one way) during the reference week. This measure is obtained by dividing the total number of minutes taken to get from home to work by the number of workers 16 years old and over who did not work at home. The travel time includes time spent waiting for public transportation, picking up passengers in carpools, and time spent in other activities related to getting to work. Mean travel times of workers having specific characteristics also are computed. For example, the mean travel time of workers traveling 45 or more minutes is computed by dividing the aggregate travel time of workers whose travel time was 45 or more minutes by the number of workers whose travel time was 45 or more minutes. Mean travel time to work is rounded to the nearest tenth. (For more information on means, see "Derived Measures.")

LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH

Language Spoken at Home

Data on language spoken at home were derived from answers to long-form questionnaire Items 11a and 11b, which were asked of a sample of the population. Data were edited to include in tabulations only the population 5 years old and over. Questions 11a and 11b referred to languages spoken at home in an effort to measure the current use of languages other than English. People who knew languages other than English but did not use them at home or who only used them elsewhere were excluded. Most people who reported speaking a language other than English at home also speak English. The questions did not permit determination of the primary or dominant language of people who spoke both English and another language. (For more information, see discussion below on "Ability to Speak English.")

Instructions to enumerators and questionnaire assistance center staff stated that a respondent should mark "Yes" in Question 11a if the person sometimes or always spoke a language other than English at home. Also, respondents were instructed not to mark "Yes" if a language other than English was spoken only at school or work, or if speaking another language was limited to a

few expressions or slang of the other language. For Question 11b, 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.

For people who indicated that they spoke a language other than English at home in Question 11a, but failed to specify the name of the language in Question 11b, 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 of a person of the same place of birth or ancestry. In all cases where a person was assigned a non-English language, it was assumed that the language was spoken at home. People for whom a language other than English was entered in Question 11b, and for whom Question 11a was blank were assumed to speak that other language at home.

The write-in responses listed in Question 11b (specific language spoken) were optically scanned or keyed onto computer files, then 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 master code list, which initially contained approximately 2,000 language names, and added variants and misspellings found in the 1990 census. 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. The following table provides an illustration of the content of the classification schemes used to present language data.

Four and Thirty-Nine Group Classifications of Census 2000 Languages Spoken at Home With Illustrative Examples

Four-Group Classification	Thirty-Nine-Group Classification	Examples
Spanish	Spanish and Spanish creole	Spanish, Ladino
Other Indo-European languages	French	French, Cajun, Patois
	French Creole	Haitian Creole
	Italian	
	Portuguese and Portuguese creole	
	German	
	Yiddish	
	Other West Germanic languages	Dutch, Pennsylvania Dutch, Afrikaans
	Scandinavian languages	Danish, Norwegian, Swedish
	Greek	
	Russian	
	Polish	
	Serbo-Croatian	Serbo-Croatian, Croatian, Serbian
	Other Slavic languages	Czech, Slovak, Ukrainian
	Armenian	
	Persian	
	Gujarati	
	Hindi	
	Urdu	
	Other Indic languages	Bengali, Marathi, Punjabi, Romany

Four and Thirty-Nine Group Classifications of Census 2000 Languages Spoken at Home With Illustrative Examples—Con.

	Other Indo-European languages	Albanian, Gaelic, Lithuanian, Rumanian
Asian and Pacific Island languages	Chinese	Cantonese, Formosan, Mandarin
	Japanese	
	Korean	
	Mon-Khmer, Cambodian	
	Miao, Hmong	
	Thai	
	Laotian	
	Vietnamese	
	Other Asian languages	Dravidian languages (Malayalam, Telugu, Tamil), Turkish
	Tagalog	
	Other Pacific Island languages	Chamorro, Hawaiian, Ilocano, Indonesian, Samoan
All other languages	Navajo	
	Other Native North American languages	Apache, Cherokee, Choctaw, Dakota, Keres, Pima, Yupik
	Hungarian	
	Arabic	
	Hebrew	
	African languages	Amharic, Ibo, Twi, Yoruba, Bantu, Swahili, Somali
	Other and unspecified languages	Syriac, Finnish, Other languages of the Americas, not reported

Household language. In households where one or more people (5 years old and 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, in-laws, other relatives, stepchild, unmarried partner, housemate or roommate, and other nonrelatives. Thus, a person who speaks only English may have a non-English household language assigned to him/her in tabulations of individuals by household language.

Language density. Language density is a household measure of the number of household members who speak a language other than English at home in three categories: none, some, and all speak another language.

Limitation of the data. Some people who speak a language other than English at home may have first learned that language at school. However, these people would be expected to indicate that they spoke English "Very well." People 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 U.S. population.

Comparability. Information on language has been collected in every census since 1890, except 1950. 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 1980, 1990, and Census 2000. 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 procedures from 1980 to 1990 improved accuracy of coding and may have affected the number of people reported in some of the 380 plus categories. 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 keyed, then transcribed to a computer file and matched to a computer dictionary that began with the 2,000 name list. The name list was expanded as unmatched entries were referred to headquarters specialists for resolution. In Census 2000, the written entries were transcribed by "optical character recognition" (OCR), or manually keyed when the computer could not read the entry. Then all language entries were copied to a separate computer file and matched to a master code list. The code list is the master file developed from all language unique entries on the 1990 census, and included over 55,000 entries. The computerized matching ensured that identical alphabetic entries received the same code. Unmatched entries were referred to headquarters specialists for coding. In 2000, entries were reported in about 350 of the 380 categories.

Ability to Speak English

Data on ability to speak English were derived from the answers to long-form questionnaire Item 11c, which was asked of a sample of the population. Respondents who reported that they spoke a language other than English in long-form questionnaire Item 11a were asked to indicate their ability to speak English in 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. Respondents were not instructed on how to interpret the response categories in Question 11c.

People 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, Hispanic origin, nativity and year of entry, and language group.

Linguistic isolation. A household in which no person 14 years old and over speaks only English and no person 14 years old and over who speaks a language other than English speaks English "Very well" is classified as "linguistically isolated." In other words, a household in which all members 14 years old and over speak a non-English language and also speak English less than "Very well" (have difficulty with English) is "linguistically isolated." All the members of a linguistically isolated household are tabulated as linguistically isolated, including members under 14 years old who may speak only English.

Comparability. The current question on ability to speak English was asked for the first time in 1980. From 1890 to 1910, "Able to speak English, yes/no" was asked along with two literacy questions. 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 some tabulations showing ability to speak English, people who reported that they spoke English "Very well" are presented separately from people who reported their ability to speak English as less than "Very well."

MARITAL STATUS

The data on marital status were derived from answers to long-form questionnaire Item 7, "What is this person's marital status," which was asked of a sample of the population. The marital status classification refers to the status at the time of enumeration. Data on marital status are tabulated only for the population 15 years old and over.

Each person was asked whether they were "Now married," "Widowed," "Divorced," "Separated," or "Never married." Couples who live together (for example, people in common-law marriages) were able to report the marital status they considered to be the most appropriate.

Never married. Never married includes all people who have never been married, including people whose only marriage(s) was annulled.

Ever married. Ever married includes people married at the time of enumeration, along with those who are separated, widowed, or divorced.

Now married, except separated. Now married, except separated includes people whose current marriage has not ended through widowhood or divorce; or who are not currently separated. The category also may include people in common-law marriages if they consider this category the most appropriate. In certain tabulations, currently married people are further classified as "spouse present" or "spouse absent."

Separated. Separated includes people with legal separations, people living apart with intentions of obtaining a divorce, and people who are permanently or temporarily separated because of marital discord.

Widowed. This category includes widows and widowers who have not remarried.

Divorced. This category includes people who are legally divorced and who have not remarried.

Now married. All people whose current marriage has not ended by widowhood or divorce. This category includes people defined above as "separated."

Spouse present. Married people whose wives or husbands were enumerated as members of the same household or the same group quarters facility, including those whose spouses may have been temporarily absent for such reasons as travel or hospitalization.

Spouse absent. Married people whose wives or husbands were not enumerated as members of the same household or the same group quarters facility.

Separated. Defined above.

Spouse absent, other. Married people whose wives or husbands were not enumerated as members of the same household, excluding separated. For example, this includes any person whose spouse was employed and living away from home, in an institution, or away 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. These differences also can 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 procedures. By definition, the numbers would be the same.

Comparability. Census 2000 marital status definitions are the same as those used in 1990. A general marital status question has been asked in every census since 1880. While the marital status question in Census 2000 is identical to that of 1990, in Census 2000 the question was only asked on the long form, while in previous years it was asked on the short form.

PLACE OF BIRTH

The data on place of birth were derived from answers to long-form questionnaire Item 12 which was asked of a sample of the population. Respondents were asked to report the U.S. state, Puerto Rico, U.S. Island Area, or foreign country where they were born. People not reporting a place of birth were assigned the state or country of birth of another family member or their residence 5 years earlier, or were imputed the response of another person with similar characteristics. People

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 people 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.

The place of birth question for residents of Puerto Rico was identical to the question on the stateside questionnaires. The same code lists were used to code the responses and similar edits were applied.

Nativity. Information on place of birth and citizenship status was used to classify the population into two major categories: native and foreign born. (See "Native" and "Foreign Born" under "Citizenship Status.")

Comparability. The 2000 decennial census place of birth question matches the 1999 and subsequent American Community Survey (ACS) questions. The 1990 decennial census place of birth question matches the 1996-1998 ACS questions. For the 2000 decennial census and post-1998 ACS samples, separate check boxes and write-in spaces were used for people born in the United Sates and those born outside the United States.

Data on place of birth have been collected in each U.S. census since 1850. In prior censuses, the place of birth question asked respondents to report the state or foreign country where they were born. There were no check boxes in prior censuses. Nonresponse to the place of birth question has been imputed to some degree since 1970. For 1970 through 1990, state of birth was imputed for people born in the United States; people born outside the United States were assigned "born abroad, country not specified" or "born in an outlying area, not specified." In 2000, a specific Island Area (referred to as "outlying areas" in previous censuses) or country of birth was imputed.

Data on place of birth for Puerto Rico was asked beginning in 1910. In censuses prior to 2000, the place of birth question asked respondents to report the municipio in Puerto Rico as well as the U.S. state or the foreign country where they were born. Tabulations for those censuses showed people who were born in the same or a different municipio. Municipio of birth was not asked in 2000. Nonresponse was imputed in 1980 and 1990 for all questions, but a specific foreign country was not imputed until 2000.

Parental nativity (birthplace of parents) was asked of a sample of the population in each decennial census between 1870 and 1970. The 1980, 1990, and 2000 decennial censuses instead included a question on ancestry, except for the U.S. Island Areas (such as Guam) which asked the parental nativity question. (See "Ancestry.")

POVERTY STATUS IN 1999

The poverty data were derived from answers to long-form questionnaire Items 31 and 32, the same questions used to derive income data. (For more information, see "Income in 1999.") The Census Bureau uses the federal government's official poverty definition. The Social Security Administration (SSA) developed the original poverty definition in 1964, which federal interagency committees subsequently revised in 1969 and 1980. The Office of Management and Budget's (OMB's) *Directive 14* prescribes this definition as the official poverty measure for federal agencies to use in their *statistical* work.

Derivation of the Current Poverty Measure

When the Social Security Administration (SSA) created the poverty definition in 1964, it focused on family food consumption. The U.S. Department of Agriculture (USDA) used its data about the nutritional needs of children and adults to construct food plans for families. Within each food plan, dollar amounts varied according to the total number of people in the family and the family's composition, such as the number of children within each family. The cheapest of these plans, the Economy Food Plan, was designed to address the dietary needs of families on an austere budget.

Since the USDA's 1955 Food Consumption Survey showed that families of three or more people across all income levels spent roughly one-third of their income on food, the SSA multiplied the cost of the Economy Food Plan by three to obtain dollar figures for the poverty thresholds. Since the Economy Food Plan budgets varied by family size and composition, so too did the poverty thresholds. For 2-person families, the thresholds were adjusted by slightly higher factors because those households had higher fixed costs. Thresholds for unrelated individuals were calculated as a fixed proportion of the corresponding thresholds for 2-person families.

The poverty thresholds are revised annually to allow for changes in the cost of living as reflected in the Consumer Price Index (CPI-U). The poverty thresholds are the same for all parts of the country — they are not adjusted for regional, state or local variations in the cost of living. For a detailed discussion of the poverty definition, see U.S. Census Bureau, Current Population Reports, *"Poverty in the United States: 1999,"* P-60-210.

How Poverty Status is Determined

The poverty status of families and unrelated individuals in 1999 was determined using 48 thresholds (income cutoffs) arranged in a two dimensional matrix. The matrix consists of family size (from 1 person to 9 or more people) cross-classified by presence and number of family members under 18 years old (from no children present to 8 or more children present). Unrelated individuals and 2-person families were further differentiated by the age of the reference person (RP) (under 65 years old and 65 years old and over).

To determine a person's poverty status, one compares the person's total family income with the poverty threshold appropriate for that person's family size and composition (see table below). If the total income of that person's family is less than the threshold appropriate for that family, then the person is considered poor, together with every member of his or her family. If a person is not living with anyone related by birth, marriage, or adoption, then the person's own income is compared with his or her poverty threshold.

Weighted average thresholds. Even though the official poverty data are based on the 48 thresholds arranged by family size and number of children within the family, data users often want to get an idea of the "average" threshold for a given family size. The weighted average thresholds provide that summary. They are weighted averages because for any given family size, families with a certain number of children may be more or less common than families with a different number of children. In other words, among 3-person families, there are more families with two adults and one child than families with three adults. To get the weighted average threshold for families of a particular size, multiply each threshold by the number of families for whom that threshold applies; then add up those products, and divide by the total number of families who are of that family size.

For example, for 3-person families, 1999 weighted thresholds were calculated in the following way using information from the 2000 Current Population Survey:

Family type	Number of families		Threshold		
No children (three adults)	5,213	*	$13,032	=	$67,935,816
One child (two adults)	8,208	*	$13,410	=	$110,069,280
Two children (one adult)	2,656	*	$13,423	=	$35,651,488
Totals	16,077				$213,656,584

Source: Current Population Survey, March 2000.

Dividing $213,656,584 by 16,077 (the total number of 3-person families) yields $13,290, the weighted average threshold for 3-person families. Please note that the thresholds are weighted not just by the number of poor families, but by all families for which the thresholds apply: the thresholds are used to determine which families are *at* or *above* poverty, as well as below poverty.

Individuals for whom poverty status is determined. Poverty status was determined for all people except institutionalized people, people in military group quarters, people in college dormitories, and unrelated individuals under 15 years old. These groups also were excluded from the numerator and denominator when calculating poverty rates. They are considered neither "poor" nor "nonpoor."

Specified poverty levels. For various reasons, the official poverty definition does not satisfy all the needs of data users. Therefore, some of the data reflect the number of people below different percentages of the poverty level. These specified poverty levels are obtained by multiplying the official thresholds by the appropriate factor. For example, the average income cutoff at 125 percent of the poverty level was $21,286 ($17,029 x 1.25) in 1999 for family of four people.

Poverty Threshold in 1999, by Size of Family and Number of Related Children Under 18 Years Old

(Dollars)

Size of family unit	Weighted average threshold	Related children under 18 years old								
		None	One	Two	Three	Four	Five	Six	Seven	Eight or more
One person (unrelated individual)	8501									
Under 65 years old	8667	8667								
65 years old and over	7990	7990								
Two people	10869									
Householder under 65 years old	11214	11156	11483							
Householder 65 years old and over	10075	10070	11440							
Three people	13290	13032	13410	13423						
Four people	17029	17184	17465	16895	16954					
Five people	20127	20723	21024	20380	19882	19578				
Six people	22727	23835	23930	23436	22964	22261	21845			
Seven people	25912	27425	27596	27006	26595	25828	24934	23953		
Eight people	28967	30673	30944	30387	29899	29206	28327	27412	27180	
Nine people or more	34417	36897	37076	36583	36169	35489	34554	33708	33499	32208

Income deficit. 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 provides 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 the impoverishment of a family or unrelated individual. However, please use caution when 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.

Aggregate income deficit. Aggregate income deficit refers only to those families or unrelated individuals who are classified as below the poverty level. It is defined as the group (e.g., type of family) sum total of differences between the appropriate threshold and total family income or total personal income. Aggregate income deficit is subject to rounding, which means that all cells in a matrix are rounded to the nearest hundred dollars. (For more information, see "Aggregate" under "Derived Measures.")

Mean income deficit. Mean income deficit represents the amount obtained by dividing the total income deficit for a group below the poverty level by the number of families (or unrelated individuals) in that group. (The aggregate used to calculate mean income deficit is rounded. For more information, see "Aggregate income deficit.") As mentioned above, please use caution when comparing mean income deficits of families with different characteristics, as apparent differences may to some extent be a function of differences in family size. Mean income deficit is rounded to the nearest whole dollar. (For more information on means, see "Derived Measures.")

Comparability. The poverty definition used in the 1980 census and later differed slightly from the one used in the 1970 census. Three technical modifications were made to the definition used in the 1970 census:

1. Beginning with the 1980 census, the Office of Management and Budget eliminated any distinction between thresholds for "families with a female householder with no husband present" and all other families. The new thresholds — which apply to all families regardless of the householder's sex — were a weighted average of the old thresholds.
2. The Office of Management and Budget eliminated any differences between farm families and nonfarm families, and farm and nonfarm unrelated individuals. In the 1970 census, the farm thresholds were 85 percent of those for nonfarm families; whereas, in 1980 and later, the same thresholds were applied to all families and unrelated individuals regardless of residence.
3. The thresholds by size of family were extended from seven or more people in 1970 to nine or more people in 1980 and later.

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 U.S. Census Bureau, Current Population Reports, ''*Characteristics of the Population Below the Poverty Level: 1980,"* P-60, No. 133.

With respect to poverty, the population covered in the 1970 census was almost the same as that covered in the 1980 census and later. The only difference was that in 1980 and after, unrelated individuals under 15 years old were excluded from the poverty universe, while in 1970, only those under age 14 were excluded. The limited poverty data from the 1960 census excluded all people 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 people since the 1960 census.

Current Population Survey. Because the questionnaires and data collection procedures differ, Census 2000 estimates of the number of people below the poverty level by various characteristics may differ from those reported in the March 2000 Current Population Survey. Please refer to www.census.gov/hhes/income/guidance.html for more details.

Household poverty data. Poverty status is not defined for households — only for families and unrelated individuals. Because some data users need poverty data at the household level, we have provided a few matrices that show tallies of households by the poverty status of the householder. In these matrices, the householder's poverty status is computed exactly the same way as described above. Therefore, to determine whether or not a "household" was in poverty, anyone who is not related to the householder is ignored.

Example #1: Household #1 has six members — a married couple, Alice and Albert, with their 10-year-old nephew, Aaron, and another married couple, Brian and Beatrice, with their 6-year-old son, Ben. Alice is the householder. Brian, Beatrice, and Ben are not related to Alice.

Household member	Relationship to Alice	Income
Alice	self (householder)	$5,000
Albert	spouse	$40,000
Aaron	related child	$0
Brian	unrelated individual	$0
Beatrice	unrelated individual	$5,000
Ben	unrelated individual	$0

The total income of Alice's family is $45,000, and their poverty threshold is $13,410, since there are three people in the family, with one member under age 18. Their income is greater than their threshold, so they are not classified as poor. Their ratio of income to poverty is 3.36 ($45,000 divided by $13,410). Alice's income-to-poverty ratio is also 3.36, because everyone in the same family has the same poverty status.

Even though Brian, Beatrice and Ben would be classified as poor if they lived in their own household, the household is not classified as poor because the householder, Alice, is not poor, as was shown in the computation above.

Example #2: Household #2 consists of four adults, Claude, Danielle, Emily, and Francis, who are unrelated to each other and are living as housemates. Claude, who is age 30, is the householder.

Household member	Relationship to Claude	Income
Claude	self (householder)	$4,500
Danielle	unrelated individual	$82,000
Emily	unrelated individual	$28,000
Francis	unrelated individual	$40,000

Because Claude is under age 65 and is not living with any family members, his poverty threshold is $8,667. Since his income, $4,500, is less than his threshold, he is considered poor. His ratio of income to poverty is 0.52 ($4,500 divided by $8,667).

Household #2 would be classified as poor because its householder, Claude, is poor, even though the other household members (who are not related to Claude) are not in poverty.

RACE

The data on race, which was asked of all people, were derived from answers to long-form questionnaire Item 6 and short-form questionnaire Item 8. The concept of race, as used by the Census Bureau, reflects self-identification by people according to the race or races with which they most closely identify. These categories are socio-political constructs and should not be interpreted as being scientific or anthropological in nature. Furthermore, the race categories include both racial and national-origin groups.

The racial classifications used by the Census Bureau adhere to the October 30, 1997, Federal Register Notice entitled, *"Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity,"* issued by the Office of Management and Budget (OMB). These standards govern the categories used to collect and present federal data on race and ethnicity. The OMB requires five minimum categories (White, Black or African American, American Indian or Alaska Native, Asian, and Native Hawaiian or Other Pacific Islander) for race. The race categories are described below with a sixth category, "Some other race," added with OMB approval. In addition to the five race groups, the OMB also states that respondents should be offered the option of selecting one or more races.

If an individual did not provide a race response, the race or races of the householder or other household members were assigned using specific rules of precedence of household relationship. For example, if race was missing for a natural-born child in the household, then either the race or races of the householder, another natural-born child, or the spouse of the householder were assigned. If race was not reported for anyone in the household, the race or races of a householder in a previously processed household were assigned. This procedure is a variation of the general imputation procedures described in "Accuracy of the Data."

White. A person having origins in any of the original peoples of Europe, the Middle East, or North Africa. It includes people who indicate their race as "White" or report entries such as Irish, German, Italian, Lebanese, Near Easterner, Arab, or Polish.

Black or African American. A person having origins in any of the Black racial groups of Africa. It includes people who indicate their race as "Black, African Am., or Negro," or provide written entries such as African American, Afro-American, Kenyan, Nigerian, or Haitian.

American Indian or Alaska Native. A person having origins in any of the original peoples of North and South America (including Central America) and who maintain tribal affiliation or community attachment. It includes people who classified themselves as described below.

American Indian. This category includes people 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. Respondents who identified themselves as American Indian were asked to report their enrolled or principal tribe. Therefore, tribal data in tabulations reflect the written 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 files. The information for Census 2000 is derived from the American Indian Tribal Classification List for the 1990 census that was updated based on a December 1997, Federal Register Notice, entitled "*Indian Entities Recognized and Eligible to Receive Service From the United States Bureau of Indian Affairs,"* Department of the Interior, Bureau of Indian Affairs, issued by the Office of Management and Budget.

Alaska Native. This category includes written responses of Eskimos, Aleuts, and Alaska Indians as well as entries such as Arctic Slope, Inupiat, Yupik, Alutiiq, Egegik, and Pribilovian. The Alaska tribes are the Alaskan Athabascan, Tlingit, and Haida. The information for Census 2000 is based on the American Indian Tribal Classification List for the 1990 census, which was expanded to list the individual Alaska Native Villages when provided as a written response for race.

Asian. A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam. It includes "Asian Indian," "Chinese," "Filipino," "Korean," "Japanese," "Vietnamese," and "Other Asian."

Asian Indian. This category includes people who indicated their race as "Asian Indian" or identified themselves as Bengalese, Bharat, Dravidian, East Indian, or Goanese.

Chinese. This category includes people who indicate their race as "Chinese" or who identify themselves as Cantonese, or Chinese American. In some census tabulations, written entries of Taiwanese are included with Chinese while in others they are shown separately.

Filipino. This category includes people who indicate their race as "Filipino" or who report entries such as Philipino, Philipine, or Filipino American.

Japanese. This category includes people who indicate their race as "Japanese" or who report entries such as Nipponese or Japanese American.

Korean. This category includes people who indicate their race as "Korean" or who provide a response of Korean American.

Vietnamese. This category includes people who indicate their race as "Vietnamese" or who provide a response of Vietnamese American.

Cambodian. This category includes people who provide a response such as Cambodian or Cambodia.

Hmong. This category includes people who provide a response such as Hmong, Laohmong, or Mong.

Laotian. This category includes people who provide a response such as Laotian, Laos, or Lao.

Thai. This category includes people who provide a response such as Thai, Thailand, or Siamese.

Other Asian. This category includes people who provide a response of Bangladeshi; Bhutanese; Burmese; Indochinese; Indonesian; Iwo Jiman; Madagascar; Malaysian; Maldivian; Nepalese; Okinawan; Pakistani; Singaporean; Sri Lankan; or Other Asian, specified and Other Asian, not specified.

Native Hawaiian or Other Pacific Islander. A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands. It includes people who indicate their race as "Native Hawaiian," "Guamanian or Chamorro," "Samoan," and "Other Pacific Islander."

Native Hawaiian. This category includes people who indicate their race as "Native Hawaiian" or who identify themselves as "Part Hawaiian" or "Hawaiian."

Guamanian or Chamorro. This category includes people who indicate their race as such, including written entries of Guam or Chamorro.

Samoan. This category includes people who indicate their race as "Samoan" or who identify themselves as American Samoan or Western Samoan.

Other Pacific Islander. This category includes people who provide a write-in response of a Pacific Islander group such as Carolinian; Chuukese (Trukese); Fijian; Kosraean; Melanesian; Micronesian; Northern Mariana Islander; Palauan; Papua New Guinean; Pohnpeian; Polynesian; Solomon Islander; Tahitian; Tokelauan; Tongan; Yapese; or Other Pacific Islander, specified and Other Pacific Islander, not specified.

Some other race. This category includes all other responses not included in the "White," "Black or African American," "American Indian or Alaska Native," "Asian," and "Native Hawaiian or Other Pacific Islander" race categories described above. Respondents providing write-in entries such as multiracial, mixed, interracial, or a Hispanic/Latino group (for example, Mexican, Puerto Rican, or Cuban) in the "Some other race" write-in space are included in this category.

Two or more races. People may have chosen to provide two or more races either by checking two or more race response check boxes, by providing multiple write-in responses, or by some combination of check boxes and write-in responses. The race response categories shown on the questionnaire are collapsed into the five minimum races identified by the OMB, and the Census Bureau "Some other race" category. For data product purposes, "Two or more races" refers to combinations of two or more of the following race categories:

1. White
2. Black or African American
3. American Indian and Alaska Native
4. Asian
5. Native Hawaiian and Other Pacific Islander
6. Some other race

There are 57 possible combinations (see below) involving the race categories shown above. Thus, according to this approach, a response of "White" and "Asian" was tallied as two or more races, while a response of "Japanese" and "Chinese" was not because "Japanese" and "Chinese" are both Asian responses. Tabulations of responses involving reporting of two or more races within the American Indian and Alaska Native, Asian, or Native Hawaiian and Other Pacific Islander categories are available in other data products.

Two or More Races (57 Possible Specified Combinations)

1. White; Black or African American
2. White; American Indian and Alaska Native
3. White; Asian
4. White; Native Hawaiian and Other Pacific Islander
5. White; Some other race
6. Black or African American; American Indian and Alaska Native
7. Black or African American; Asian
8. Black or African American; Native Hawaiian and Other Pacific Islander
9. Black or African American; Some other race
10. American Indian and Alaska Native; Asian

Two or More Races (57 Possible Specified Combinations)—Con.

11. American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander
12. American Indian and Alaska Native; Some other race
13. Asian; Native Hawaiian and Other Pacific Islander
14. Asian; Some other race
15. Native Hawaiian and Other Pacific Islander; Some other race
16. White; Black or African American; American Indian and Alaska Native
17. White; Black or African American; Asian
18. White; Black or African American; Native Hawaiian and Other Pacific Islander
19. White; Black or African American; Some other race
20. White; American Indian and Alaska Native; Asian
21. White; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander
22. White; American Indian and Alaska Native; Some other race
23. White; Asian; Native Hawaiian and Other Pacific Islander
24. White; Asian; Some other race
25. White; Native Hawaiian and Other Pacific Islander; Some other race
26. Black or African American; American Indian and Alaska Native; Asian
27. Black or African American; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander
28. Black or African American; American Indian and Alaska Native; Some other race
29. Black or African American; Asian; Native Hawaiian and Other Pacific Islander
30. Black or African American; Asian; Some other race
31. Black or African American; Native Hawaiian and Other Pacific Islander; Some other race
32. American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander
33. American Indian and Alaska Native; Asian; Some other race
34. American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander; Some other race
35. Asian; Native Hawaiian and Other Pacific Islander; Some other race
36. White; Black or African American; American Indian and Alaska Native; Asian
37. White; Black or African American; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander
38. White; Black or African American; American Indian and Alaska Native; Some other race
39. White; Black or African American; Asian; Native Hawaiian and Other Pacific Islander
40. White; Black or African American; Asian; Some other race
41. White; Black or African American; Native Hawaiian and Other Pacific Islander; Some other race
42. White; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander
43. White; American Indian and Alaska Native; Asian; Some other race
44. White; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander; Some other race
45. White; Asian; Native Hawaiian and Other Pacific Islander; Some other race
46. Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander
47. Black or African American; American Indian and Alaska Native; Asian; Some other race
48. Black or African American; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander; Some other race
49. Black or African American; Asian; Native Hawaiian and Other Pacific Islander; Some other race
50. American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some other race
51. White; Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander
52. White; Black or African American; American Indian and Alaska Native; Asian; Some other race

Two or More Races (57 Possible Specified Combinations)—Con.

53. White; Black or African American; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander; Some other race
54. White; Black or African American; Asian; Native Hawaiian and Other Pacific Islander; Some other race
55. White; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some other race
56. Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some other race
57. White; Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some other race

Given the many possible ways of displaying data on two or more races, data products will provide varying levels of detail. The most common presentation shows a single line indicating "Two or more races." Some data products provide totals of all 57 possible combinations of two or more races, as well as subtotals of people reporting a specific number of races, such as people reporting two races, people reporting three races, and so on.

In other presentations on race, data are shown for the total number of people who reported one of the six categories alone or in combination with one or more other race categories. For example, the category, "Asian alone or in combination with one or more other races" includes people who reported Asian alone and people who reported Asian in combination with White, Black or African American, Native Hawaiian and Other Pacific Islander, and Some other race. This number, therefore, represents the maximum number of people who reported as Asian in the question on race. When this data presentation is used, the individual race categories will add to more than the total population because people may be included in more than one category.

Coding of race write-in responses. Census 2000 included an automated review, computer edit, and coding operation on a 100-percent basis for the write-in responses to the race question, similar to that used in the 1990 census. There were two types of coding operations: (1) automated coding where a write-in response was automatically coded if it matched a write-in response already contained in a database known as the "master file," and (2) expert coding which took place when a write-in response did not match an entry already on the master file, and was sent to expert clerical coders familiar with the subject matter. During 100-percent processing of Census 2000 questionnaires, subject-matter specialists reviewed and coded written entries from four response categories on the race item: American Indian or Alaska Native, Other Asian, Other Pacific Islander, and Some other race. The Other Asian and Other Pacific Islander response categories shared the same write-in area on the questionnaire. Write-in responses such as Laotian or Thai, and Guamanian or Tongan were reviewed, coded, and tabulated as "Other Asian" and "Other Pacific Islander," respectively, in the census. All tribal entries were coded as either American Indian or as Alaska Native.

Comparability. The data on race in Census 2000 are not directly comparable to those collected in previous censuses. The October 1997 revised standards issued by the OMB led to changes in the question on race for Census 2000. The Census 2000 Dress Rehearsal data were the first to reflect these changes. First, respondents were allowed to select more than one category for race. Second, the sequence of the questions on race and Hispanic origin changed. In 1990, the question on race (Item 4) preceded the question on Hispanic origin (Item 7) with two intervening questions. For Census 2000, the question on race immediately follows the question on Hispanic origin. Third, there were terminology changes to the response categories, such as spelling out "American" instead of "Amer." for the American Indian or Alaska Native category; and adding "Native" to the Hawaiian response category. The 1990 category, "Other race," was renamed "Some other race." Other differences that may affect comparability involve the individual categories on the Census 2000 questionnaire. The 1990 category, "Asian and Pacific Islander," was separated into two categories, "Asian" and "Native Hawaiian and Other Pacific Islander" for Census 2000.

Accordingly, on the Census 2000 questionnaire, there were seven Asian categories and four Native Hawaiian and Other Pacific Islander categories. The two residual categories, "Other Asian" and "Other Pacific Islander," replaced the 1990 single category "Other API." The 1990 categories, "American Indian," "Eskimo," and "Aleut," were combined into "American Indian and Alaska Native." American Indians and Alaska Natives can report one or more tribes.

As in 1980 and 1990, people who reported a Hispanic or Latino ethnicity in the question on race and did not mark a specific race category were classified in the "Some other race" category ("Other" in 1980 and "Other race" in 1990). They commonly provided a write-in entry such as Mexican, Puerto Rican, or Latino. In the 1970 census, most of these responses were included in the "White" category. In addition, some ethnic entries that in 1990 may have been coded as White or Black are now shown in the "Some other race" group.

For Puerto Rico, separate questions on race and Hispanic origin were included on their Census 2000 questionnaire; identical to the questions used in the United States. The 1950 census was the last census to include these questions on the Puerto Rico questionnaire.

REFERENCE WEEK

The data on employment status and commuting to work are related to a 1-week time period, known as the reference week. For each person, this week is the full calendar week, Sunday through Saturday, preceding the date the questionnaire was completed. This calendar week is not the same for all people since the enumeration was not completed in 1 week. The occurrence of holidays during the enumeration period probably had no effect on the overall measurement of employment status.

RESIDENCE 5 YEARS AGO

The data on residence 5 years earlier were derived from answers to long-form questionnaire Item 15, which was asked of a sample of the population 5 years old and over. This question asked for the state (or foreign country), U.S. county, city or town, and ZIP Code of residence on April 1, 1995, for those people who reported that on that date they lived in a different house than their current residence. Residence 5 years earlier 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.

On the Puerto Rico questionnaire, people living in Puerto Rico in 1995 were asked to report the name of the municipio (county equivalent); the city, town or village; and the ZIP Code where they lived. People living in the United States in 1995 were asked to report the name of the city, county, state, and ZIP Code where they lived. People living outside Puerto Rico or the United States were asked to report the name of the foreign country or U.S. Island Area where they were living in 1995.

When no information on previous residence was reported for a person, information for other family members, if available, was used to assign a location of residence in 1995. All cases of nonresponse or incomplete response that were not assigned a previous residence based on information from other family members were imputed the previous residence of another person with similar characteristics who provided complete information on residence 5 years earlier.

The tabulation category, "Same house," includes all people 5 years old and over who did not move during the 5 years as well as those who had moved but by Census Day had returned to their 1995 residence. The category, "Different house in the United States," includes people who lived in the United States 5 years earlier but lived in a different house or apartment from the one they occupied on Census Day. These movers are then further subdivided according to the type of move.

In most tabulations, movers within the U.S. are divided into three groups according to their previous residence: "Different house, same county," "Different county, same state," and "Different state." The last group may be further subdivided into region of residence in 1995. An additional

category, "Abroad," includes those whose previous residence was in a foreign country, Puerto Rico, American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, or the U.S. Virgin Islands, including members of the armed forces and their dependents. Some tabulations show movers who were residing in Puerto Rico or one of the U.S. Island Areas in 1995 separately from those residing in foreign countries.

In most tabulations, movers within Puerto Rico are divided into two groups according to their 1995 residence: "Same municipio," and "Different municipio." Municipio of previous residence in Puerto Rico is not available for people living in the United States in 2000. Other tabulations show movers within or between metropolitan areas similar to the stateside tabulations.

Some special tabulations present data on inmigrants, outmigrants, and net migration. "Inmigrants" are generally defined as those people who moved into an area. In some tabulations, movers from abroad may be included in the number of inmigrants; in others, only movers within the United States are included. "Outmigrants" are people who moved out of a specific area to some other place in the United States. Movers who left the United States are not available to be included in any tabulations. "Net migration" is calculated by subtracting the number of outmigrants from the number of inmigrants. The net migration for the area is net inmigration if the result is positive and net outmigration if the result is negative. In the tabulations, net outmigration is indicated by a minus sign (-).

Inmigrants and outmigrants for states include only those people who did not live in the same state at both dates; that is, they exclude people who moved between counties within the same state. Thus, the sum of the inmigrants to (or outmigrants from) all counties in any state is greater than the number of inmigrants 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 equals 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 inmigrants and outmigrants for that division or region is less than the sum of the inmigrants or outmigrants for the individual states.

The number of people who were living in a different house 5 years earlier is somewhat less than the total number of moves during the 5-year period. Some people 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 1995 residence. Other people who were living in a different house had made one or more intermediate moves. For similar reasons, the number of people living in a different county, metropolitan area, or state, or the number 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 is reduced somewhat because of different definitions and categories of tabulation. Comparability with the 1960 and 1970 censuses is also somewhat reduced because nonresponse was not imputed in those earlier censuses.

Similar questions were asked on all previous Puerto Rico censuses beginning in 1940, except the questions in 1950 referred to residence 1 year earlier rather than 5 years earlier. Nonresponse, if not assigned based on information from other family members, was not imputed in those earlier censuses.

For the 1980 and 1990 censuses, nonresponse was imputed in a manner similar to Census 2000, except that Census 2000 was the first to impute a specific city or town of previous residence within the United States or a specific foreign country. In 1980 and 1990, only state and county (or state, county, and minor civil division in the Northeast) were imputed; people who were abroad 5 years earlier were tabulated as "abroad, country not specified" rather than being imputed to a specific country.

If residence was in the United States in 2000 but in Puerto Rico in 1995, then a specific city or town was not imputed for nonresponse. For residents of Puerto Rico in 2000, a specific city or town was imputed for nonresponse if they lived in a different residence in Puerto Rico in 1995 or if they lived in the United States in 1995.

SCHOOL ENROLLMENT AND EMPLOYMENT STATUS

Tabulation of data on school enrollment, educational attainment, and employment status for the population 16 to 19 years old allows for calculating the proportion of people 16 to 19 years old who are not enrolled in school and not high school graduates ("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."

Comparability. The tabulation of school enrollment by employment status is similar to that published in 1980 and 1990 census reports. The 1980 census tabulation included a single data line for armed forces; school enrollment, educational attainment, and employment 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 long-form questionnaire Items 8a and 8b, which were asked of a sample of the population. People were classified as enrolled in school if they reported attending a "regular" public or private school or college at any time between February 1, 2000, and the time of enumeration. The question included instructions to "include only nursery school or preschool, kindergarten, elementary school, and schooling which leads to a high school diploma or a college degree" as regular school or college. Respondents who did not answer the enrollment question were assigned the enrollment status and type of school of a person with the same age, sex, and race/Hispanic or Latino origin whose residence was in the same or a nearby area.

Public and private school. Public and private school includes people 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." Schools supported and controlled primarily by a federal, state, or local government are defined as public (including tribal schools). Those supported and controlled primarily by religious organizations or other private groups are private.

Comparability. School enrollment questions have been included in the census since 1840; highest 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 6 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 2 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 instruction, which continued to exclude nursery school. Because of the use of mailed questionnaires in the 1960 census, it was the first census 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 that 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. 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. 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 were defined as private. In Census 2000 there was no separate instruction guide. The questionnaire reference book used by enumerators and telephone assistance staff contained these definitions for those who asked questions.

The age range for which enrollment data have been obtained and published has varied over the censuses. Information on enrollment was recorded for people of all ages in the 1930 and 1940 censuses and 1970 through 2000 censuses; for people under 30 years old in 1950; and for people 5 to 34 years old in 1960. Most of the published enrollment figures referred to people 5 to 20 years old in the 1930 census, 5 to 24 in 1940, 5 to 29 in 1950, 5 to 34 in 1970, and 3 years old and over in 1980 and later years. 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 people 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 subnational levels.

Type of school was first introduced in the 1960 census, where a separate question asked the enrolled person whether he/she was in a "public" or "private" school. Beginning with 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." In 1990 and 2000, "public" and "private" were used. Data on school enrollment also were 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 to 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 may also affect these comparisons.

SEX

The data on sex, which was asked of all people, were derived from answers to long-form questionnaire Item 3 and short-form questionnaire Item 5. Individuals were asked to mark either "male" or "female" to indicate their sex. For most cases in which sex was not reported, it was determined from the person's given (i.e., first) name and household relationship. Otherwise, sex was imputed according to the relationship to the householder and the age of the person. (For more information on imputation, see "Accuracy of the Data.")

Sex ratio. A measure derived by dividing the total number of males by the total number of females, and then multiplying by 100. This measure is rounded to the nearest tenth.

Comparability. A question on the sex of individuals has been included in every census. Census 2000 was the first time that first name was used for imputation of cases where sex was not reported.

VETERAN STATUS

Data on veteran status, period of military service, and years of military service were derived from answers to long-form questionnaire Item 20, which was asked of a sample of the population 15 years old and over.

Veteran status. The data on veteran status were derived from answers to long-form questionnaire Item 20a. For census data products, a "civilian veteran" is a person 18 years old and over who, at the time of the enumeration, had served on active duty in the U.S. Army, Navy, Air Force, Marine Corps, or Coast Guard in the past (even for a short time), but was not then on active duty, or who had served in the Merchant Marine during World War II. People who had served in the National Guard or Military Reserves were classified as veterans only if they had ever been called or ordered to active duty, not counting the 4 to 6 months for initial training or yearly summer camps. All other civilians 18 years old and over were classified as nonveterans.

Period of military service. People who indicated in long-form questionnaire Item 20a that they had served on active duty in the past (civilian veterans) or were on active duty at the time of enumeration were asked to indicate in Question 20b the period or periods in which they served. People who served in both wartime and peacetime periods are tabulated according to their wartime service.

The responses to the question about period of service were edited for consistency and reasonableness. The edit eliminated inconsistencies between reported period(s) of service and the age of the person; it also removed reported combinations of periods containing unreasonable gaps (for example, it did not accept a response that indicated that the person had served in World War II and in the Vietnam era, but not in the Korean conflict).

Years of military service. People who indicated in long-form questionnaire Item 20a that they had served on active duty in the past (civilian veterans) or were on active duty at the time of enumeration were asked whether they had spent at least 2 years in total on active duty. The question asked for accumulated service (i.e., total service), which is not necessarily the same as continuous service. The years of military service question provides necessary information to estimate the number of veterans that are eligible to receive specific benefits.

Limitation of the data. There may be a tendency for the following kinds of people to report erroneously that they had served on active duty in the armed forces: (a) people 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 predecessors, the Department of War and the Department of the Navy); and (c) employees of the Merchant Marine or Public Health Service. There is also the possibility that people may have misreported years of service in long-form questionnaire Item 20c because of rounding errors (for example, people with 1 year 8 months of active duty military service may have mistakenly reported "2 years or more").

Comparability. Since census data on veterans are based on self-reported responses, they may differ from data from other sources, such as administrative records of the Department of Defense and/or the Department of Transportation. Census data also may differ from Department of Veterans Affairs' data on the benefits-eligible population, since criteria for determining eligibility for veterans' benefits differ from the rules for classifying veterans in the census.

The questions and concepts for veterans' data for Census 2000 were essentially the same as those used for the 1990 census, with the following exceptions: (1) the period of military service categories were updated; (2) in an effort to reduce reporting error, the format of the years of military service question was changed from an open-ended one (how many years has...served?) to a closed-ended one (the respondent checked either of two boxes: less than 2 years/2 years or more); and (3) persons with service during World War II in the Women's Air Forces Service Pilots organization were first counted as veterans in Census 2000, a development that should not appreciably affect 1990-2000 comparability. Both the 2000 and 1990 veteran-status questions represented expanded versions of the corresponding question in the 1980 census, which asked

only whether the person was a veteran or not. The expansion was intended to clarify the appropriate response for persons currently in the armed forces and for persons whose only military service was for training in the Reserves or National Guard.

WORK STATUS IN 1999

The data on work status in 1999 were derived from answers to long-form questionnaire Item 30a, which was asked of a sample of the population 15 years old and over. People 16 years old and over who worked 1 or more weeks according to the criteria described below are classified as "Worked in 1999." All other people 16 years old and over are classified as "Did not work in 1999." Some earnings tabulations showing work status in 1999 include 15 year olds; these people, by definition, are classified as "Did not work in 1999."

Weeks worked in 1999. The data on weeks worked in 1999 were derived from answers to long-form questionnaire Item 30b, which was asked of people 15 years old and over who indicated in long-form questionnaire Item 30a that they worked in 1999. The data were tabulated for people 16 years old and over and pertain to the number of weeks during 1999 in which a person did any work for pay or profit (or took paid vacation or paid sick leave) or worked without pay on a family farm or in a family business. Weeks on active duty in the armed forces also are included as weeks worked.

Median weeks worked in 1999. Median weeks worked in 1999 divides the weeks worked distribution into two equal parts: one-half of the cases falling below the median weeks worked and one-half above the median. Median weeks worked in 1999 is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median weeks worked is rounded to the nearest whole number. (For more information on medians, see "Derived Measures.")

Usual hours worked per week in 1999. The data on usual hours worked in 1999 were derived from answers to long-form questionnaire Item 30c. This question was asked of people 15 years old and over who indicated that they worked in 1999 in Question 30a, and the data are tabulated for people 16 years old and over. The respondent was asked to report the number of hours usually worked during the weeks worked in 1999. If their hours varied considerably from week to week during 1999, the respondent was asked to report an approximate average of the hours worked each week. People 16 years old and over who reported that they usually worked 35 or more hours each week are classified as "Usually worked full time"; people who reported that they usually worked 1 to 34 hours each week are classified as "Usually worked part time."

Median usual hours worked per week in 1999. Median usual hours worked per week in 1999 divides the usual hours worked distribution into two equal parts: one-half of the cases falling below the median usual hours worked and one-half above the median. Median usual hours worked per week in 1999 is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median usual hours worked per week is rounded to the nearest whole hour. (For more information on medians, see "Derived Measures.")

Aggregate usual hours worked per week in 1999. The aggregate usual hours worked per week in 1999 is the number obtained by summing across the usual hours worked values of all people who worked in 1999. (Note that there is one usual hours value for each worker, so the number of items summed equals the number of workers.)

Mean usual hours worked per week in 1999. Mean usual hours worked per week is calculated by dividing the aggregate number of usual hours worked per week worked in 1999 by the total number of people who worked in 1999. Mean usual hours worked per week is rounded to the nearest tenth. (For more information on means, see "Derived Measures.")

Full-time, year-round workers. Full-time, year-round workers consists of people 16 years old and over who usually worked 35 hours or more per week for 50 to 52 weeks in 1999. The term "worker" in these concepts refers to people classified as "Worked in 1999" as defined above. The term "worked" in these concepts means "worked one or more weeks in 1999" as defined above under "Weeks Worked in 1999."

Limitation of the data. It is probable that data on the number of people who worked in 1999 and on the number of weeks worked are understated since there was probably a tendency for respondents to forget intermittent or short periods of employment or to exclude weeks worked without pay. There may also have been a tendency for people not to include weeks of paid vacation among their weeks worked, which would result in an underestimate of the number of people who worked "50 to 52 weeks."

Comparability. The data on weeks worked collected in Census 2000 are comparable with data from the 1960 to 1990 censuses, but may not be entirely comparable with data from the 1940 and 1950 censuses. Starting with the 1960 census, two separate questions have been used to obtain this information. The first identifies people with any work experience during the year and, thus, indicates those people for whom the question about number of weeks worked applies. In 1940 and 1950, the questionnaires contained only a single question on number of weeks worked. In 1970, people responded to the question on weeks worked by indicating one of six weeks-worked intervals. In 1980 and 1990, people were asked to enter the specific number of weeks they worked.

Worker. The terms "worker" and "work" appear in connection with several subjects: employment status, journey-to-work, class of worker, and work status in 1999. Their meaning varies and, therefore, should be determined by referring to the definition of the subject in which they appear. When used in the concepts "Workers in Family," "Workers in Family in 1999," and "Full-Time, Year-Round Workers," the term "worker" relates to the meaning of work defined for the "Work Status in 1999" subject.

YEAR OF ENTRY

The data on year of entry were derived from answers to long-form questionnaire Item 14, which was asked of a sample of the population. All people born outside the United States were asked for the year in which they came to live in the United States. This includes people born in Puerto Rico and U.S. Island Areas (such as Guam); people born abroad of American parent(s); and the foreign born. (For more information, see "Place of Birth" and "Citizenship Status.")

Limitation of the data. The census questions on nativity, citizenship status, and year of entry were not designed to measure the degree of permanence of residence in the United States. The phrase "to live" 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 live," it was difficult to be sure that respondents interpreted the phrase as intended.

Comparability. The year of entry questions for the 2000 decennial census and for the American Community Survey (ACS) are identical. This question differs from the year of entry question in the 1990 decennial census. The 1990 decennial census item asked "When did this person come to the United States to stay?" Moreover, the year of entry question in the 1990 census provided respondents with a fixed number of response categories, while the year of entry question in both the 2000 decennial census and the ACS collect year of entry through a write-in space.

HOUSING CHARACTERISTICS

Contact List: To obtain additional information on these and other Census 2000 subjects, see the list of *Census 2000 Contacts* on the Internet at http://www.census.gov/contacts/www/c-census2000.html.

Puerto Rico: Please note that for Census 2000, the definitions below apply to both the United States and Puerto Rico, except where noted. For 1990 and earlier censuses, references on comparability refer only to the United States. Please refer to the appropriate technical documentation for Puerto Rico for comparability statements pertaining to 1990 and earlier censuses.

LIVING QUARTERS

Living quarters are either housing units or group quarters. Living quarters are usually found in structures intended for residential use, but also may be found in structures intended for nonresidential use as well as in places such as tents, vans, and emergency and transitional shelters.

Housing unit. A housing unit may be 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 separately from any other individuals in the building and which have direct access from outside the building or through a common hall. 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. Boats, recreational vehicles (RVs), vans, tents, and the like are housing units 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' lots, at the factory, or in storage yards are excluded from the housing inventory. Also excluded from the housing inventory 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.

Occupied housing unit. A housing unit is classified as occupied if it is the usual place of residence of the person or group of people living in it at the time of enumeration, or if the occupants are only temporarily absent; that is, away on vacation or a business trip. 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 people who share living quarters.

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, people who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. If any of the occupants in rooming or boarding houses, congregate housing, or continuing care facilities live separately from others in the building and have direct access, their quarters are classified as separate housing units. 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.

Vacant housing unit. 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 people who have a usual residence elsewhere are also classified as vacant. 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 from the housing inventory if they are open to the elements; that is, the roof, walls, windows, and/or doors no longer protect the interior from the elements. Also excluded are vacant units with a sign that they are condemned or they are to be demolished.

Comparability. The first Census of Housing in 1940 established the "dwelling unit" concept. Although the term became "housing unit" and the definition was modified slightly in succeeding censuses, the housing unit definition remained essentially comparable between 1940 and 1990. Since 1990, two changes have been made to the housing unit definition.

The first change eliminated the concept of "eating separately." The elimination of the eating criterion makes the housing unit definition more comparable to the United Nations' definition of a housing unit that stresses the entire concept of separateness rather than the specific "eating" element. Although the "eating separately" criterion was previously included in the definition of a housing unit, the data collected did not actually allow one to distinguish whether the occupants ate separately from any other people in the building. (Questions that asked households about their eating arrangements have not been included in the census since 1970.) Therefore, the current definition better reflects the information that is used in the determination of a housing unit.

The second change for Census 2000 eliminated the "number of nonrelatives" criterion; that is, "nine or more people unrelated to the householder" which converted housing units to group quarters. This change was prompted by the following considerations: (1) there were relatively few such conversions in 1990; (2) household relationship and housing data were lost by converting these housing units to group quarters; and (3) there was no empirical support for establishing a particular number of nonrelatives as a threshold for these conversions.

In 1960, 1970, and 1980, vacant rooms in hotels, motels, and other similar places where 75 percent or more of the accommodations were occupied by permanent residents were counted as part of the housing inventory. We intended to classify these vacant units as housing units in the 1990 census. However, an evaluation of the data collection procedures prior to the 1990 census indicated that the concept of permanency was difficult and confusing for enumerators to apply correctly. Consequently, in the 1990 census, vacant rooms in hotels, motels, and similar places were not counted as housing units. In Census 2000, we continued the procedure adopted in 1990.

ACREAGE (CUERDA)

The data on acreage were obtained from answers to long-form questionnaire Item 44b. This question was asked on a sample basis at occupied and vacant 1-family houses and mobile homes. The data for vacant units are obtained by asking a neighbor, real estate agent, building manager, or anyone else who had knowledge of the vacant unit in question.

Question 44b determines a range of acres (cuerdas) on which the house or mobile home is located. A major purpose for this item is to exclude owner-occupied and renter-occupied 1-family houses on 10 or more acres (cuerdas) from the specified owner- and renter-occupied universes for value and rent tabulations. Another major purpose for this item, in conjunction with long-form questionnaire Item 44c on agricultural sales, is to identify farm units. (For more information, see "Farm Residence.") 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, a creek, another piece of land, etc.

Comparability. Question 44b replaced two items on acreage that were asked in 1990, "Is this house on 10 or more acres (cuerdas)" and "Is this house on less than 1 acre (cuerda)." No information was lost by combining these items. In Census 2000, this question was asked on a sample basis. In previous decennial censuses, the first acreage question was asked on a 100-percent basis and the second one was asked on a sample basis.

AGRICULTURAL SALES

Data on the sales of agricultural crops were obtained from answers to long-form questionnaire Item 44c, which was asked on a sample basis at occupied 1-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 two or more units, and all vacant units. This item refers to the total amount (before taxes and expenses) received in 1999 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 to estimate total agricultural sales in 1999 even if some portion of the sales had been made by previous 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 of Agriculture (1997 Census of Agriculture, Vol. 1, geographic area series conducted by the National Agriculture Statistics Services, U.S. Department of Agriculture). (For more information, see "Farm Residence.")

BEDROOMS

The data on bedrooms were obtained from answers to long-form questionnaire Item 38, 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, apartment, or mobile home 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. Year-round housing units are all occupied units plus vacant units available or intended for year round use. Vacant units intended for seasonal occupancy and migrant laborers are excluded. Since 1990, these data are shown for all housing units. Prior to 1990, a room was defined as a bedroom if it was used mainly for sleeping even if it also was used for other purposes. Rooms that were designed to be used as bedrooms but used mainly for other purposes were not classified as bedrooms.

BUSINESS ON PROPERTY

The data for business on property were obtained from answers to long-form questionnaire Item 44a, which was asked on a sample basis at occupied and vacant 1-family houses and mobile homes. This question is used to exclude owner-occupied, 1-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 to have a business. Medical offices are considered businesses for tabulation purposes.

Comparability. Data on business on property have been collected since 1940. In Census 2000, this question was asked on a sample basis. In previous decennial censuses, the question on business on property was asked on a 100-percent basis.

CONDOMINIUM FEE

The data on condominium fee were obtained from answers to long-form questionnaire Item 52, which was asked on a sample basis at owner-occupied condominiums. A condominium fee normally is charged monthly to the owners of 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.

The data from this item were added to payments for mortgages (both first, second, home equity loans, and other junior mortgages); 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 1999" for condominium owners.

Comparability. Data on condominium fees were collected for the first time in 1990. In previous decennial censuses, a question on whether a unit was part of a condominium also was asked. The question on condominium status was not asked in Census 2000.

CONTRACT RENT

The data on contract rent (also referred to as "rent asked" for vacant units) were obtained from answers to long-form questionnaire Item 46, which was asked on a sample basis at occupied housing units that were rented for cash rent and 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, only that part of the rent estimated to be for the respondent's unit was included. Excluded was 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 also is paid by the renter to the owner, the condominium fee or carrying charge was included as rent.

If a renter receives payments from lodgers or roomers who are listed as members of the household, the rent without deduction for any payments received from the lodgers or roomers was to be reported. The respondent was to report the rent agreed to or contracted for even if paid by someone else such as friends or relatives living elsewhere, a church or welfare agency, or the government through subsidies or vouchers.

In some tabulations, contract rent is presented for all renter-occupied housing units, as well as specified renter-occupied and vacant-for-rent units. (For more information on rent, see "Gross Rent.")

Specified renter-occupied and specified vacant-for-rent units. In some tabulations, contract rent is presented for specified renter-occupied and vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude 1-family houses on 10 acres or more.

Median and quartile contract rent. The median divides the rent distribution into two equal parts: one-half of the cases falling below the median contract rent and one-half above the median. Quartiles divide the rent distribution into four equal parts. Median and quartile contract rent are computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). 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. Upper and lower quartiles can be used to note large rent differences among various geographic areas. (For more information on medians and quartiles, see "Derived Measures.")

Aggregate contract rent. Aggregate contract rent is calculated by adding all of the contract rents for occupied housing units in an area. Aggregate contract rent is subject to rounding, which means that all cells in a matrix are rounded to the nearest hundred dollars. (For more information, see "Aggregate" under "Derived Measures.")

Aggregate rent asked. Aggregate rent asked is calculated by adding all of the rents for vacant-for-rent housing units in an area. Aggregate rent asked is subject to rounding, which means that all cells in a matrix are rounded to the nearest hundred dollars. (For more information, see "Aggregate" under "Derived Measures.")

Limitation of the data. In previous censuses, including 1990, contract rent for vacant units had high allocation rates (about 35 percent).

Comparability. Data on this item have been collected since 1930. In Census 2000, this question was asked on a sample basis. In previous decennial censuses, the question on contract rent was asked on a 100-percent basis.

In Census 2000, respondents wrote in the contract rent amount. In previous decennial censuses, respondents marked the appropriate contract rent box shown as ranges on the questionnaire.

FARM RESIDENCE

The data on farm residence were obtained on a sample basis from answers to long-form questionnaire Items 44b and 44c. An occupied 1-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 1999. Group quarters and housing units that are in multiunit buildings or are vacant are not included as farm residences.

The farm population consists of people in households living in farm residences. Some people who are counted on a property classified as a farm (including, in some cases, farm workers) are excluded from the farm population. Such people include those who reside in multiunit buildings or group quarters.

Comparability. These are the same criteria that were used to define a farm residence in 1980 and 1990. 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. The definition of a farm residence differs from the definition of a farm in the Census of Agriculture (*1992 Census of Agriculture, Vol. 1*, geographic area series conducted by the Department of Agriculture).

GROSS RENT

The data on gross rent were obtained from answers to long-form questionnaire Items 45a-d, which were asked on a sample basis. Gross rent is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, water and sewer) and fuels (oil, coal, kerosene, wood, etc.) if these are paid by the renter (or paid for the renter by someone else). Gross rent is intended to eliminate differentials that 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 an annual 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.

Median gross rent. Median gross rent divides the gross rent distribution into two equal parts: one-half of the cases falling below the median gross rent and one-half above the median. Median gross rent is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median gross rent is rounded to the nearest whole dollar. (For more information on medians, see "Derived Measures.")

Aggregate gross rent. Aggregate gross rent is calculated by adding together all of the gross rents for occupied housing units in an area. Aggregate gross rent is subject to rounding, which means that all cells in a matrix are rounded to the nearest hundred dollars. (For more information, see "Aggregate" under "Derived Measures.")

Comparability. Data on gross rent have been collected since 1940 for renter-occupied housing units. In Census 2000, questionnaire Item 45c asked the annual costs for water and sewer in an effort to obtain all costs associated with water usage. In 1990, the question asked the yearly costs for water only.

GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1999

Gross rent as a percentage of household income in 1999 is a computed ratio of monthly gross rent to monthly household income (total household income in 1999 divided by 12). The ratio is computed separately for each unit and is rounded to the nearest tenth. Units for which no cash rent is paid and units occupied by households that reported no income or a net loss in 1999 comprise the category "Not computed."

Median gross rent as a percentage of household income in 1999. This measure divides the gross rent as a percentage of household income distribution into two equal parts, one-half of the cases falling below the median gross rent as a percentage of household income and one-half above the median. Median gross rent as a percentage of household income is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median gross rent as a percentage of household income is rounded to the nearest tenth. (For more information on medians, see "Derived Measures.")

HOUSE HEATING FUEL

The data on house heating fuel were obtained from answers to long-form questionnaire Item 42, which was asked on a sample basis at occupied housing units. The data show the type of fuel used most often to heat the house, apartment, or mobile home.

Utility gas. This category includes gas piped through underground pipes from a central system to serve the neighborhood.

Bottled, tank, or LP gas. This category includes liquid propane gas stored in bottles or tanks which are refilled or exchanged when empty.

Electricity. Electricity is generally supplied by means of above or underground electric power lines.

Fuel oil, kerosene, etc. This category includes fuel oil, kerosene, gasoline, alcohol, and other combustible liquids.

Coal or coke. This category includes coal or coke that is usually delivered by truck.

Wood. This category includes purchased wood, wood cut by household members on their property or elsewhere, driftwood, sawmill or construction scraps, or the like.

Solar energy. This category includes heat provided by sunlight that is collected, stored, and actively distributed to most of the rooms.

Other fuel. This category includes all other fuels not specified elsewhere.

No fuel used. This category 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.

HOUSEHOLD SIZE

This item is based on the count of people in occupied housing units. All people occupying the housing unit are counted, including the householder, occupants related to the householder, and lodgers, roomers, boarders, and so forth.

For products based on population data, "household size" is the number of people in households. The sample count of "occupied housing units" may not match the sample count of "households." Consequently, the household size measures derived from housing and population-based data also may differ.

Average household size of occupied unit. A measure obtained by dividing the number of people living in occupied housing units by the number of occupied housing units. This measure is rounded to the nearest hundredth.

Average household size of owner-occupied unit. A measure obtained by dividing the number of people living in owner-occupied housing units by the total number of owner-occupied housing units. This measure is rounded to the nearest hundredth.

Average household size of renter-occupied unit. A measure obtained by dividing the number of people living in renter-occupied housing units by the total number of renter-occupied housing units. This measure is rounded to the nearest hundredth.

INSURANCE FOR FIRE, HAZARD, AND FLOOD

The data on fire, hazard, and flood insurance were obtained from answers to long-form questionnaire Item 50, which was asked on a sample basis at owner-occupied housing units. 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 reported even if they have not been paid or are paid by someone outside the household. When premiums are paid on other than an annual basis, the premiums are converted to an annual basis.

The payment for fire, hazard, and flood insurance is added to payments for real estate taxes, utilities, fuels, and mortgages (both first, second, home equity loans, and other junior mortgages) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1999."

A separate long-form questionnaire item (47d) 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. In 1990, the question was modified to include flood insurance. It was asked at 1family, owner-occupied houses; mobile homes; and condominiums. In Census 2000, the question was asked at all owner-occupied housing units.

KITCHEN FACILITIES

Data on kitchen facilities were obtained from answers to long-form questionnaire Item 40, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. A unit has complete kitchen facilities when it has all of the following: (1) a sink with piped water; (2) a range, **or** cook top and oven; and (3) a refrigerator. All kitchen facilities must be located in the house, apartment, or mobile home, but they need not be in the same room. A housing unit having only a microwave or portable heating equipment, such as a hot plate or camping stove, should not be considered as having complete kitchen facilities. 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. Since 1990, data are shown for all housing units.

Prior to Census 2000, the kitchen facilities only had to be located in the structure, not in the unit. For example, if an apartment did not have complete kitchen facilities, but these facilities were present elsewhere in the building, the item would have been marked "yes" prior to Census 2000, but "no" in Census 2000.

MEALS INCLUDED IN RENT

The data on meals included in the rent were obtained from answers to long-form questionnaire Item 46b, which was asked on a sample basis at occupied housing units that were rented for cash rent and 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 1-family houses on ten or more acres. (For more information, see "Contract Rent.") This was a new item in 1990 used 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.

Comparability. In Census 2000, this question was asked on a sample basis. In 1990, the question was asked on a 100-percent basis.

MOBILE HOME COSTS

The data on mobile home costs were obtained from answers to long-form questionnaire Items 53a and 53b, which were asked on a sample basis at owner-occupied mobile homes. Questionnaire Item 53a asks if there is an installment loan or contract on the mobile home. This is a payment plan for mobile homes similar to buying a car or appliance. If the mobile home is not permanently attached to the land it may not be considered real estate and thus will not have a mortgage. With an installment loan, the buyer pays a specified amount per month for a specified number of months. The mobile home is the collateral for the loan, similar to a car loan.

The data derived from Question 53b include the total annual costs for installment loan payments, personal property taxes, land or site rent, registration fees, and license fees on owner-occupied mobile homes. The instructions are to exclude real estate taxes already reported in long-form questionnaire Item 49 or personal property taxes in arrears from previous years.

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 home owners.

Comparability. Data for mobile home costs were collected for the first time in 1990. In Census 2000, a question was added to determine if there was an installment loan or contract on the mobile home.

MORTGAGE PAYMENT

The data on mortgage payment were obtained from answers to long-form questionnaire Item 47b, which was asked on a sample basis at owner-occupied housing units. Questionnaire Item 47b provides the regular monthly amount required to be paid to 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 1999" 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. In 1990, the questions on monthly mortgage payments were asked at owner-occupied, 1-family houses; mobile homes; and condominiums. In Census 2000, the question was asked at all owner-occupied housing units.

The 1980 census obtained total regular monthly mortgage payments, including payments on second or other junior mortgages, from a single question. Beginning in 1990, two questions were asked; one for regular monthly payments on first mortgages, and one for regular monthly payments on second mortgages, home equity loans, and other junior mortgages. (For more information, see "Second or Junior Mortgage or Home Equity Loan.")

MORTGAGE STATUS

The data on mortgage status were obtained from answers to long-form questionnaire Items 47a and 48a, which were asked on a sample basis at owner-occupied housing units. "Mortgage" refers to all forms of debt where the property is pledged as security for repayment of the debt, including 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 1999" 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 1990, the mortgage status questions were asked of 1-family, owner-occupied housing units; mobile homes; and condominiums. In 1990, the answer categories for the second and junior mortgage question did not distinguish between a second mortgage and a home equity loan.

In Census 2000, the questions were asked at all owner-occupied housing units. In addition, the answer categories distinguished between a second mortgage and a home equity loan.

OCCUPANTS PER ROOM

Occupants per room is obtained by dividing the number of people in each occupied housing unit by the number of rooms in the unit. The figures show the number of occupied housing units having the specified ratio of people per room. Although the Census Bureau has no official definition of crowded units, many users consider units with more than one occupant per room to be crowded. Occupants per room is rounded to the nearest hundredth. This item was derived from questions asked on a sample basis.

Mean occupants per room. This is computed by dividing occupants in housing units by the aggregate number of rooms. This is intended to provide a measure of utilization or crowding. A higher mean may indicate a greater degree of utilization or crowding; a low mean may indicate underutilization. Mean occupants per room is rounded to the nearest hundredth. (For more information on means, see "Derived Measures.")

PLUMBING FACILITIES

The data on plumbing facilities were obtained from answers to long-form questionnaire Item 39, which was asked on a sample basis at both occupied and vacant housing units. Complete plumbing facilities include: (1) hot and cold piped water, (2) a flush toilet, and (3) 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 is not present.

Comparability. The 1990 census and Census 2000 data on complete plumbing facilities are not strictly comparable with the 1980 data. Before 1990, 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 also were used by members of another household. From 1940 to 1970, separate and more detailed questions were asked on piped water, bathing, and toilet facilities. Prior to 1990, questions on plumbing facilities were asked on a 100-percent basis. In 1990 and Census 2000, they were asked on a sample basis.

POPULATION IN OCCUPIED UNITS

The data shown for population in occupied units is the total population minus any people living in group quarters. This item is based on the 100-percent count of people in occupied housing units. All people occupying the housing unit are counted, including the householder, occupants related to the householder, and lodgers, roomers, boarders, and so forth. (For more information, see "Living Quarters.")

POVERTY STATUS OF HOUSEHOLDS IN 1999

The data on poverty status of households were derived from answers to the income questions. The income items were asked on a sample basis.

Since poverty is defined at the family level and not the household level, the poverty status of the household is determined by the poverty status of the householder. Households are classified as poor when the total 1999 income of the householder's family is below the appropriate poverty threshold. (For nonfamily householders, their own income is compared with the appropriate threshold.) The income of people 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 family size in determining the appropriate threshold. The poverty thresholds vary depending upon three criteria: size of family, number of children, and, for 1- and 2-person families, age of the householder. (For more information, see "Poverty Status in 1999" and "Income in 1999" under Population Characteristics.)

REAL ESTATE TAXES

The data on real estate taxes were obtained from answers to long-form questionnaire Item 49, which was asked on a sample basis at owner-occupied housing units. The statistics from this question refer to the total amount of all real estate taxes on the entire property (land and buildings) payable in 1999 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 not paid on 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 second, home equity loans, and other junior mortgages) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1999." A separate question (47c) 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.

Median real estate taxes. Median real estate taxes divides the real estate taxes distribution into two equal parts: one-half of the cases falling below the median real estate taxes and one-half above the median. Median real estate taxes is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median real estate taxes is rounded to the nearest whole dollar. (For more information on medians, see "Derived Measures.")

Aggregate real estate taxes. Aggregate real estate taxes are calculated by adding together all of the real estate taxes for occupied housing units in an area. Aggregate real estate taxes is subject to rounding, which means that all cells in a matrix are rounded to the nearest hundred dollars. (For more information, see "Aggregate" under "Derived Measures.")

Comparability. Data for real estate taxes were collected for the first time in 1980. In 1990, the question was asked at 1-family, owner-occupied houses; mobile homes; and condominiums. In Census 2000, the question was asked at all owner-occupied housing units.

ROOMS

The data on rooms were obtained from answers to long-form questionnaire Item 37, which was asked on a sample basis at both occupied and vacant housing units. The statistics on rooms are presented 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 lodgers' 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 rooms distribution into two equal parts, one-half of the cases falling below the median number of rooms and one-half above the median. Median rooms is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). 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 "Derived Measures.")

Aggregate rooms. To calculate aggregate rooms, a value of "10" is assigned to rooms for units falling within the terminal category, "9 or more." (For more information on aggregates, see "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. Since 1990, these data are shown for all housing units. In Census 2000, this question was asked on a sample basis. In previous decennial censuses, the question on rooms was asked on a 100 percent basis.

SECOND OR JUNIOR MORTGAGE PAYMENT OR HOME EQUITY LOAN

The data on second mortgage or home equity loan payments were obtained from answers to long-form questionnaire Items 48a and 48b, which were asked on a sample basis at owner-occupied housing units. Question 48a asks whether a second or junior mortgage or a home equity loan exists on the property. Question 48b asks for 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 1999" for units with a mortgage.

All mortgages other than first mortgages (for example, second, third, etc.) 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 or a home equity loan did, 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/home equity loan data were then made "No" in Question 48a and blank in Question 48b.

Comparability. The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from one single question. Beginning in 1990, two questions were used: one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages and home equity loans.

The 1990 census did not allow respondents to distinguish between a second mortgage and a home equity loan. In Census 2000, Question 48a allows the respondent to choose multiple answers, thereby identifying the specific type of second mortgage. In 1990, the second or junior mortgage questions were asked at 1-family, owner-occupied housing units; mobile homes; and condominiums. In Census 2000, the questions were asked at owner-occupied housing units.

SELECTED CONDITIONS

The variable "Selected conditions" is defined for owner- and renter-occupied housing units as having at least one of the following conditions: (1) lacking complete plumbing facilities, (2) lacking complete kitchen facilities, (3) with 1.01 or more occupants per room, (4) selected monthly owner costs as a percentage of household income in 1999 greater than 30 percent, and (5) gross rent as a percentage of household income in 1999 greater than 30 percent.

Comparability. Data on "Selected Conditions" were shown for the first time in the 1990. The same conditions were identified in Census 2000. In 2000, all characteristics included under "Selected Conditions" were asked on a sample basis. In 1990, data on the number of occupants per room were based on all households, while the remaining characteristics were based on a sample.

SELECTED MONTHLY OWNER COSTS

The data on selected monthly owner costs were obtained from answers to long-form questionnaire Items 45a-d, 47b, 48b, 49, 50, 52, and 53b, which were asked on a sample basis at owner-occupied housing units. Selected monthly owner costs are 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 mortgage, home equity loans, and other junior mortgages); real estate taxes; fire, hazard, and flood insurance on the property; utilities (electricity, gas, and water and sewer); and fuels (oil, coal, kerosene, wood, etc.). It also includes,

where appropriate, the monthly condominium fees or mobile home costs (installment loan payments, personal property taxes, site rent, registration fees, and license fees). Selected monthly owner costs were tabulated separately for all owner-occupied units, specified owner-occupied units, and owner-occupied mobile homes and, usually, are shown separately for units "with a mortgage" and for units "not mortgaged."

Specified owner-occupied housing units. Specified owner-occupied units include only 1-family houses on less 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 multiunit buildings.

Median selected monthly owner costs. This measure divides the selected monthly owner costs distribution into two equal parts, one-half of the cases falling below the median selected monthly owner costs and one-half above the median. Medians are shown separately for units "with a mortgage" and for units "not mortgaged." Median selected monthly owner costs are computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median selected monthly owner costs are rounded to the nearest whole dollar. (For more information on medians, see "Derived Measures.")

Aggregate selected monthly owner costs. Aggregate selected monthly owner costs are calculated by adding together all the selected monthly owner costs for occupied housing units in an area. Aggregate selected monthly owner costs are subject to rounding, which means that all cells in a matrix are rounded to the nearest hundred dollars. (For more information, see "Aggregate" under "Derived Measures.")

Comparability. The components of selected monthly owner costs were collected for the first time in 1980. In 1990, the questions related to selected monthly owner costs were asked at 1-family, owner-occupied houses; mobile homes; and condominiums. In Census 2000, the questions related to selected monthly owner costs were asked at all owner-occupied housing units. Question 53a, "Do you have an installment loan or contract on this mobile home?" was added in Census 2000 to determine the existence of installment loans or contracts on mobile home units.

SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1999

The information on selected monthly owner costs as a percentage of household income in 1999 is the computed ratio of selected monthly owner costs to monthly household income in 1999. The ratio was computed separately for each unit and rounded to the nearest whole percentage. It is based on questions asked of a sample of households. The data are tabulated separately for all owner-occupied units housing units and specified owner-occupied housing units.

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 1999 are included in the "not computed" category. (For more information, see "Selected Monthly Owner Costs.")

Median selected monthly owner costs as a percentage of household income. This measure divides the selected monthly owner costs as a percentage of household income distribution into two equal parts, one-half of the cases falling below the median selected monthly owner costs as a percentage of household income and one-half above the median. Median selected monthly owner costs as a percentage of household income is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median selected monthly owner costs as a percentage of household income is rounded to the nearest tenth. (For more information on medians, see "Derived Measures.")

TELEPHONE SERVICE AVAILABLE

The data on telephones were obtained from answers to long-form questionnaire Item 41, which was asked on a sample basis at occupied housing units. Households with telephone service have

a telephone in working order and are able to make and receive calls. Households whose service has been discontinued for nonpayment or other reasons are not counted as having telephone service available.

Comparability. In Census 2000, the telephone question emphasizes the availability of service in the house, apartment, or mobile home. Data on telephone service are needed because an individual can own a telephone but have no service to make or receive calls. In 1980 and 1990, respondents were asked about the presence of a telephone in the housing unit. In 1960 and 1970, a unit was classified as having a telephone available if there was a telephone number on which the 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 on tenure, which was asked at all occupied housing units, were obtained from answers to long-form questionnaire Item 33 and short-form questionnaire Item 2. 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 Person 1 on 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. Mobile homes occupied by owners with installment loans balances are also included in this category.

A housing unit is "Owned by you or someone in this household free and clear (without a mortgage or loan)" 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.

The tenure item on the Census 2000 questionnaire distinguishes between units owned with a mortgage or loan and those owned free and clear. In the sample data products, as in the 100-percent products, the tenure item provides data for total owner-occupied units. Detailed information that identifies mortgaged and nonmortgaged units are provided in other sample housing matrices. (For more information, see discussion under "Mortgage Status," "Selected Monthly Owner Costs," and "Selected Monthly Owner Costs as a Percentage of Household Income in 1999.")

Renter occupied. All occupied housing units that 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 service provider guaranteeing the individual shelter, usually a house or apartment, and services, such as meals or transportation to shopping or recreation. (For more information, see "Meals Included in Rent.")

Comparability. Data on tenure have been collected since 1890. For 1990, the response categories were expanded to allow the respondent to report whether the unit was owned with a mortgage or loan, 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. In Census 2000, we continued with the same tenure categories used in the 1990 census.

UNITS IN STRUCTURE

The data on units in structure (also referred to as "type of structure") were obtained from answers to long-form questionnaire Item 34, which was asked on a sample basis at both occupied and vacant 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 1-family house that contains a business is considered detached as long as the building has open space on all four sides. Mobile homes 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. Both occupied and vacant mobile homes to which no permanent rooms have been added are counted in this category. Mobile homes used only for business purposes or for extra sleeping space and mobile homes for sale on a dealer's lot, at the factory, or in storage are not counted in the housing inventory. In 1990, the category was "mobile home or trailer."

Boat, RV, van, etc. This category is for any living quarters occupied as a housing unit that does not fit in the previous categories. Examples that fit in 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. A category of "other" was used in 1990, but this category was greatly overstated. It was replaced by "Boat, RV, van, etc." in Census 2000. A similar category, "Boat, tent, van, etc." was used in 1980. In Census 2000, this question was asked on a sample basis. In 1990 and prior to 1980, the unit in structure question was asked on a 100-percent basis. In 1980, data on units at address were collected on a 100-percent basis and data on units in structure were collected on a sample basis. The 1980 data on "units at address" should not be used a proxy for "units in structure" because some multiunit buildings had more than one street address.

USUAL HOME ELSEWHERE

The data for usual home elsewhere were obtained from Enumerator Questionnaire, Item A, which was completed by census enumerators. A housing unit temporarily occupied at the time of enumeration entirely by people with a usual residence elsewhere was classified as vacant. The occupants were classified as having a "Usual home elsewhere" and were counted at the address of their usual place of residence. All usual home elsewhere units were classified as "For seasonal, recreational, or occasional use" unless the respondent specifically stated the unit had a different vacancy status (for more information, see "Vacancy Status").

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 were tabulated for the first time in 1980. In the 1990 census, the question was included on both the 100-percent and sample mail and enumerator forms. In Census 2000, the question was only included on the 100-percent and sample questionnaires completed by census enumerators.

UTILITIES

The data on utility costs were obtained from answers to long-form questionnaire Items 45a through 45d, which were asked on a sample basis at occupied housing units. Questions 45a through 45d asked for the annual cost of utilities (electricity, gas, water and sewer) and other fuels (oil, coal, wood, kerosene, etc.). For the tabulations, these annual 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 1999," "Selected Monthly Owner Costs," and "Selected Monthly Owner Costs as a Percentage of Household Income in 1999."

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 with utility company records. There is some evidence that this overstatement is reduced when annual 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. Beginning in 1990, all utility and fuel costs were collected as annual costs and divided by 12 to provide an average monthly cost.

VACANCY STATUS

The data on vacancy status were obtained from Enumerator Questionnaire Item C. Vacancy status and other characteristics of vacant units were determined by census 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 offered "for sale only," including units in cooperatives and condominium projects if the individual units are offered "for sale only." If units are offered either "for rent" or "for sale," they are included in the "for rent" classification.

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, for weekends, 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 in this category.

For migrant workers. These include vacant units intended for occupancy by migrant 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 categories 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.

Available housing. Available housing units are vacant units that are "for sale only" or "for rent."

Available housing vacancy rate. The available housing vacancy rate is the proportion of the housing inventory that is available "for sale only" or "for rent." It is computed by dividing the number of available units by the sum of occupied units and available units, and then multiplying by 100. This measure is rounded to the nearest tenth.

Homeowner vacancy rate. The homeowner vacancy rate is the proportion of the homeowner housing inventory that is vacant "for sale." It is computed by dividing the number of vacant units "for sale only" by the sum of owner-occupied units and vacant units that are "for sale only," and then multiplying by 100. This measure is rounded to the nearest tenth.

Rental vacancy rate. The rental vacancy rate is the proportion of the rental inventory that is vacant "for rent." It is computed by dividing the number of vacant units "for rent" by the sum of renter-occupied units and vacant units that are "for rent," and then multiplying by 100. This measure is rounded to the nearest tenth.

Comparability. Data on vacancy status have been collected since 1940. Since 1990, the category, "For seasonal, recreational, or occasional use," has been used. In earlier censuses, separate categories were used to collect data on these types of vacant units. Also, in 1970 and 1980, housing characteristics generally were presented only for year-round units. Beginning in 1990 and continuing into Census 2000, 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 answers to long-form questionnaire Item 51, which was asked on a sample basis at owner-occupied housing units and units that were 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, and specified owner-occupied and specified vacant-for-sale housing units.

Specified owner-occupied and specified vacant-for-sale units. Specified owner-occupied and specified vacant-for-sale housing units include only 1-family houses on less 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 multiunit buildings.

Median and quartile value. The median divides the value distribution into two equal parts: one-half of the cases falling below the median value of the property (house and lot, mobile home and lot, or condominium unit) and one-half above the median. Quartiles divide the value distribution into four equal parts. Median and quartile value are computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median and quartile value calculations are rounded to the nearest hundred dollars. Upper and lower quartiles can be used to note large value differences among various geographic areas. (For more information on medians and quartiles, see "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 "$1,000,000 or more" is $1,250,000. Aggregate value is rounded to the nearest hundred dollars. (For more information on aggregates, see "Derived Measures.")

Aggregate price asked. To calculate aggregate price asked, the amount assigned for the category "Less than $10,000" is $9,000. The amount assigned to the category "$1,000,000 or more" is $1,250,000. Aggregate price asked is rounded to the nearest hundred dollars. (For more information on aggregates, see "Derived Measures.")

Comparability. In Census 2000, this question was asked on a sample basis. In previous decennial censuses, the question on value was asked on a 100-percent basis. In 1980, value was asked only at owner-occupied or vacant-for-sale 1-family houses on less 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.

Beginning 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 include 1-family condominium houses but not condominiums in multiunit structures.

VEHICLES AVAILABLE

The data on vehicles available were obtained from answers to long-form questionnaire Item 43, which was asked on a sample basis at occupied housing units. These data show the number of passenger cars, vans, and pickup or panel trucks of 1-ton capacity or less kept at home and available for the use of household members. Vehicles rented or leased for 1 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.

Aggregate vehicles available. To calculate aggregate vehicles available, a value of "7" is assigned to vehicles available for occupied units falling within the terminal category, "6 or more." (For more information on aggregates, see "Derived Measures.")

Vehicles per household (Mean vehicles available). Vehicles per household is computed by dividing aggregate vehicles available by the number of occupied housing units. Vehicles per household is rounded to the nearest tenth. (For more information on means, see "Derived Measures.")

Limitation of the data. 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 and Census 2000 data are comparable to the 1980 vehicles-available tabulations. In 1990, the terminal category identified "7 or more"; this was changed to "6 or more" in Census 2000.

YEAR HOUSEHOLDER MOVED INTO UNIT

The data on year householder moved into unit were obtained from answers to long-form questionnaire Item 36, which was asked on a sample at occupied housing units. These data refer to the year of the latest move by the householder. If the 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 in, although in the great majority of cases an entire household moves at the same time.

Median year householder moved into unit. Median year householder moved into unit divides the distribution into two equal parts: one-half of the cases falling below the median year householder moved into unit and one-half above the median. Median year householder moved

into unit is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median year householder moved into unit is rounded to the nearest whole number. (For more information on medians, see "Derived Measures.")

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. Since 1980, the question has been asked only of the householder.

YEAR STRUCTURE BUILT

The data on year structure built were obtained from answers to long-form questionnaire Item 35, which was asked on a sample basis at both occupied and vacant housing units. Year structure built refers 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 "1999 or 2000" was used for tabulations. For mobile homes, houseboats, RVs, etc., the manufacturer's model year was assumed to be the year built. The data 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. Median year structure built divides the distribution into two equal parts: one-half of the cases falling below the median year structure built and one-half above the median. Median year structure built is computed on the basis of a standard distribution (see the "Standard Distributions" section under "Derived Measures"). Median year structure built is rounded to the nearest whole number. Median age of housing can be obtained by subtracting median year structure built from 2000. For example, if the median year structure built is 1967, the median age of housing in that area is 33 years (2000 minus 1967). (For more information on medians, see "Derived Measures.")

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 people who have lived in the neighborhood a long time.

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 the 1980 census, the number of units built before 1940 appeared to be underreported. In an effort to alleviate this problem, a "Don't know" category was added in 1990. Responses of "Don't know" were treated like blanks and the item was allocated from similar units by tenure and structure type. However, this led to an extremely high allocation rate for the item (28 percent). A 1996 test proved inconclusive in determining whether a "Don't know" category led to a more accurate count of older units, but the test showed the allocation rate for this item was greatly reduced by the elimination of the "Don't know" category. As a result, "Don't know" was deleted for Census 2000.

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 shown as zero.

Aggregate

See "Mean."

Average

See "Mean."

Interpolation

Interpolation is frequently used to calculate medians or quartiles and to approximate standard errors from tables based on interval data. Different kinds of interpolation may be used to estimate the value of a function between two known values, depending on the form of the distribution. The

most common distributional assumption is that the data are linear, resulting in linear interpolation. However, this assumption may not be valid for income data, particularly when the data are based on wide intervals. For these cases, a Pareto distribution is assumed and the median is estimated by interpolating between the logarithms of the upper and lower income limits of the median category. The Census Bureau estimates median income using the Pareto distribution within intervals when the intervals are wider than $2,500.

Mean

This measure represents an arithmetic average of a set of values. It is derived by dividing the sum (or aggregate) of a group of numerical items by the total number of items in that group. For example, mean household earnings is obtained by dividing the aggregate of all earnings reported by individuals with earnings living in households by the total number of households with earnings. (Additional information on means and aggregates is included in the separate explanations of many population and housing subjects.)

Aggregate. An aggregate is the sum of the values for each of the elements in the universe. For example, aggregate household income is the sum of the incomes of all households in a given geographic area. Means are derived by dividing the aggregate by the appropriate universe.

Rounding for selected aggregates. To protect the confidentiality of responses, the aggregates shown in matrices for the list of subjects below are rounded. This means that the aggregates for these subjects, except for travel time to work, are rounded to the nearest hundred dollars. Unless special rounding rules apply (see below); $150 rounds up to $200; $149 rounds down to $100. Note that each cell in a matrix is rounded individually. This means that an aggregate value shown for the United States may not necessarily be the sum total of the aggregate values in the matrices for the states. This also means that the cells in the aggregate matrices may not add to the total and/or subtotal lines.

Special rounding rules for aggregates

- If the dollar value is between −$100 and +$100, then the dollar value is rounded to $0.
- If the dollar value is less than −$100, then the dollar value is rounded to the nearest −$100.

Aggregates Subject to Rounding

Contract Rent
Earnings in 1999 (Households)
Earnings in 1999 (Individuals)
Gross Rent*
Income Deficit in 1999 (Families)
Income Deficit in 1999 Per Family Member
Income Deficit in 1999 Per Unrelated Individual
Income in 1999 (Household/Family/Nonfamily Household)
Income in 1999 (Individuals)
Real Estate Taxes
Rent Asked
Selected Monthly Owner Costs* by Mortgage Status
Travel Time To Work**
Type of Income in 1999 (Households)
Value, Price Asked

* Gross Rent and Selected Monthly Owner Costs include other aggregates that also are subject to rounding. For example, Gross Rent includes aggregates of payments for “contract rent” and the “costs of utilities and fuels.” Selected Monthly Owner Costs includes aggregates of payments for “mortgages, deeds of trust, contracts to purchase, or similar debts on the property (including payments for the first mortgage, second mortgage, home equity loans, and other junior mortgages); real estate taxes; fire, hazard, and flood insurance on the property, and the costs of utilities and fuels.”

** Aggregate travel time to work is zero if the aggregate is zero, is rounded to 4 minutes if the aggregate is 1 to 7 minutes, and is rounded to the nearest multiple of 5 minutes for all other values (if the aggregate is not already evenly divisible by 5).

Median

This measure represents the middle value (if n is odd) or the average of the two middle values (if n is even) in an ordered list of n data values. The median divides the total frequency distribution into two equal parts: one-half of the cases falling below the median and one-half above the median. Each median is calculated using a standard distribution (see below). (For more information, see "Interpolation.")

For data products displayed in American FactFinder, medians that fall in the upper-most category of an open-ended distribution will be shown with a plus symbol (+) appended (e.g., "$2,000+" for contract rent), and medians that fall in the lowest category of an open-ended distribution will be shown with a minus symbol (-) appended (e.g., "$100- for contract rent"). For data products on CD-ROM and DVD, and data files that are downloaded by users (i.e., FTP files), plus and minus signs will not be appended. Contract rent, for example will be shown as $2001 if the median falls in the upper-most category ($2,000 or more) and $99 if the median falls in the lowest category (Less than $100). (The "Standard Distributions" section below shows the open-ended intervals for medians.)

Standard distributions. In order to provide consistency in the values within and among data products, standard distributions from which medians and quartiles are calculated are used for Census 2000. This is a new approach for Census 2000; in previous censuses medians were not necessarily based on a single, standard distribution. The Census 2000 standard distributions are listed below.

Standard Distribution for **Median Age:**
[116 data cells]

Under 1 year
1 year
2 years
3 years
4 years
5 years
.
.
.
112 years
113 years
114 years
115 years and over

Standard Distribution for **Median Contract Rent/Quartile Contract Rent/Rent Asked/Gross Rent:**
[22 data cells]

Less than $100
$100 to $149
$150 to $199
$200 to $249
$250 to $299
$300 to $349
$350 to $399
$400 to $449
$450 to $499
$500 to $549
$550 to $599
$600 to $649
$650 to $699
$700 to $749
$750 to $799
$800 to $899
$900 to $999
$1,000 to $1,249
$1,250 to $1,499
$1,500 to $1,749
$1,750 to $1,999
$2,000 or more

Standard Distribution for **Median Earnings in 1999 and Median Income in 1999 (Individuals):**
[35 data cells]

$1 to $2,499 or loss
$2,500 to $4,999
$5,000 to $7,499
$7,500 to $9,999
$10,000 to $12,499
$12,500 to $14,999
$15,000 to $17,499
$17,500 to $19,999
$20,000 to $22,499
$22,500 to $24,999
$25,000 to $27,499
$27,500 to $29,999
$30,000 to $32,499
$32,500 to $34,999
$35,000 to $37,499
$37,500 to $39,999
$40,000 to $42,499
$42,500 to $44,999
$45,000 to $47,499
$47,500 to $49,999
$50,000 to $52,499
$52,500 to $54,999
$55,000 to $57,499
$57,500 to $59,999
$60,000 to $62,499
$62,500 to $64,999
$65,000 to $67,499
$67,500 to $69,999
$70,000 to $72,499
$72,500 to $74,999
$75,000 to $79,999
$80,000 to $84,999
$85,000 to $89,999
$90,000 to $99,999
$100,000 or more

Standard Distribution for **Median Gross Rent as a Percentage of Household Income in 1999:**
[9 data cells]

Less than 10.0 percent
10.0 to 14.9 percent
15.0 to 19.9 percent
20.0 to 24.9 percent
25.0 to 29.9 percent
30.0 to 34.9 percent
35.0 to 39.9 percent
40.0 to 49.9 percent
50.0 percent or more

Standard Distribution for **Median Income in 1999 (Household/Family/Nonfamily Household):**
[39 data cells]

Less than $2,500
$2,500 to $4,999
$5,000 to $7,499
$7,500 to $9,999
$10,000 to $12,499
$12,500 to $14,999
$15,000 to $17,499
$17,500 to $19,999
$20,000 to $22,499
$22,500 to $24,999
$25,000 to $27,499
$27,500 to $29,999
$30,000 to $32,499
$32,500 to $34,999
$35,000 to $37,499
$37,500 to $39,999
$40,000 to $42,499
$42,500 to $44,999
$45,000 to $47,499
$47,500 to $49,999
$50,000 to $52,499
$52,500 to $54,999
$55,000 to $57,499
$57,500 to $59,999
$60,000 to $62,499
$62,500 to $64,999
$65,000 to $67,499
$67,500 to $69,999
$70,000 to $72,499
$72,500 to $74,999
$75,000 to $79,999
$80,000 to $84,999
$85,000 to $89,999
$90,000 to $99,999
$100,000 to $124,999
$125,000 to $149,999
$150,000 to $174,999
$175,000 to $199,999
$200,000 or more

Standard Distribution for **Median Real Estate Taxes:**
[14 data cells]

Less than $200
$200 to $299
$300 to $399
$400 to $599
$600 to $799
$800 to $999
$1,000 to $1,499
$1,500 to $1,999
$2,000 to $2,999
$3,000 to $3,999
$4,000 to $4,999
$5,000 to $7,499
$7,500 to $9,999
$10,000 or more

Standard Distribution for **Median Rooms:**
[9 data cells]

1 room
2 rooms
3 rooms
4 rooms
5 rooms
6 rooms
7 rooms
8 rooms
9 or more rooms

Standard Distribution for **Median Selected Monthly Owner Costs by Mortgage Status (With a Mortgage):**
[19 data cells]

Less than $100
$100 to $199
$200 to $299
$300 to $399
$400 to $499
$500 to $599
$600 to $699
$700 to $799
$800 to $899
$900 to $999
$1,000 to $1,249
$1,250 to $1,499
$1,500 to $1,749
$1,750 to $1,999
$2,000 to $2,499
$2,500 to $2,999
$3,000 to $3,499
$3,500 to $3,999
$4,000 or more

Standard Distribution for **Median Selected Monthly Owner Costs by Mortgage Status (Without a Mortgage):**
[14 data cells]
Less than $100
$100 to $149
$150 to $199
$200 to $249
$250 to $299
$300 to $349
$350 to $399
$400 to $499
$500 to $599
$600 to $699
$700 to $799
$800 to $899
$900 to $999 $1,000 or more

Standard Distribution for **Median Selected Monthly Owner Costs as a Percentage of Household Income in 1999 by Mortgage Status:**
[9 data cells]
Less than 10.0 percent
10.0 to 14.9 percent
15.0 to 19.9 percent
20.0 to 24.9 percent
25.0 to 29.9 percent
30.0 to 34.9 percent
35.0 to 39.9 percent
40.0 to 49.9 percent
50.0 percent or more

Standard Distribution for **Median Usual Hours Worked Per Week in 1999:**
[9 data cells]
Usually worked 50 to 99 hours per week
Usually worked 45 to 49 hours per week
Usually worked 41 to 44 hours per week
Usually worked 40 hours per week
Usually worked 35 to 39 hours per week
Usually worked 30 to 34 hours per week
Usually worked 25 to 29 hours per week
Usually worked 15 to 24 hours per week
Usually worked 1 to 14 hours per week

Standard Distribution for **Median Value/Quartile Value/Price Asked:**
[24 data cells]
Less than $10,000
$10,000 to $14,999
$15,000 to $19,999
$20,000 to $24,999
$25,000 to $29,999
$30,000 to $34,999
$35,000 to $39,999
$40,000 to $49,999
$50,000 to $59,999
$60,000 to $69,999
$70,000 to $79,999
$80,000 to $89,999
$90,000 to $99,999
$100,000 to $124,999
$125,000 to $149,999
$150,000 to $174,999
$175,000 to $199,999
$200,000 to $249,999
$250,000 to $299,999
$300,000 to $399,999
$400,000 to $499,999
$500,000 to $749,999
$750,000 to $999,999
$1,000,000 or more

Standard Distribution for **Median Weeks Worked in 1999:**
[6 data cells]
50 to 52 weeks worked in 1999
48 or 49 weeks worked in 1999
40 to 47 weeks worked in 1999
27 to 39 weeks worked in 1999
14 to 26 weeks worked in 1999
1 to 13 weeks worked in 1999

Standard Distribution for **Median Year Householder Moved Into Unit:**
[6 data cells]
Moved in 1999 to March 2000
Moved in 1995 to 1998
Moved in 1990 to 1994
Moved in 1980 to 1989
Moved in 1970 to 1979
Moved in 1969 or earlier

Standard Distribution for **Median Year Structure Built:**
[9 data cells]

Built 1999 to March 2000
Built 1995 to 1998
Built 1990 to 1994
Built 1980 to 1989
Built 1970 to 1979
Built 1960 to 1969
Built 1950 to 1959
Built 1940 to 1949
Built 1939 or earlier

Percentage

This measure is calculated by taking the number of items in a group possessing a characteristic of interest and dividing by the total number of items in that group, and then multiplying by 100.

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) is defined as the upper limit of the lowest three quarters of cases in the distribution. Quartiles are presented for certain financial characteristics, such as housing value and contract rent. The distribution used to compute quartiles is the same as that used to compute medians for that variable.

Rate

This is a measure of occurrences in a given period of time divided by the possible number of occurrences during that period. For example, the homeowner vacancy rate is calculated by dividing the number of vacant units "for sale only" by the sum of owner-occupied units and vacant units that are "for sale only," and then multiplying by 100. Rates are sometimes presented as percentages.

Ratio

This is a measure of the relative size of one number to a second number expressed as the quotient of the first number divided by the second. For example, the sex ratio is calculated by dividing the total number of males by the total number of females, and then multiplying by 100.

Appendix C.
Data Collection and Processing Procedures

CONTENTS

	Page
Enumeration and Residence Rules	C–1
United States	C–1
Puerto Rico	C–3
Major Components of the Census 2000 Plan	C–4
Master Address File	C–4
Public Outreach and Marketing	C–5
Questionnaire Mailout/Mailback	C–6
Collecting Data on Populations Living in Nontraditional Households	C–7
Collecting Long Form Data to Meet Federal Requirements	C–7
Retrieving and Processing the Data From Returned Forms	C–7
Matching and Unduplication	C–7
Geographic Database Development – TIGER®	C–8
Field Offices and Staffing	C–8
Data Collection: Basic Enumeration Strategy	C–9
Special Populations	C–11
Telecommunications Support and Automated Data Processing	C–13
Quality Assurance	C–13
The Census 2000 Dress Rehearsal in 1998	C–13
Data Dissemination Through the Internet	C–14
Evaluation and Preparation for 2010	C–14
Glossary	C–14

ENUMERATION AND RESIDENCE RULES

In accordance with census practice dating back to the first U.S. census in 1790, each person was to be enumerated as an inhabitant of his or her "usual residence" in Census 2000. Usual residence is the place where the person lives and sleeps most of the time. 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 people whose usual place of residence is not immediately apparent. Furthermore, this practice means that people were not always counted as residents of the place where they happened to be staying on Census Day (April 1, 2000).

United States

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. As in previous censuses, people specifically excluded from the census were citizens of foreign countries temporarily traveling or visiting in the United States who had not established a residence.

Americans temporarily overseas were to be enumerated at their usual residence in the United States. With some exceptions, Americans with a usual residence outside the United States were not enumerated in Census 2000. U.S. military personnel and federal civilian employees stationed outside the United States and their dependents living with them, are included in the population counts for the 50 states for purposes of Congressional apportionment but are excluded from all other tabulations for states and their subdivisions. The counts of overseas U.S. military personnel,

federal civilian employees, and their dependents were obtained from administrative records maintained by the employing federal departments and agencies. Other Americans living overseas who were not affiliated with the U.S. government were not included in the census.

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. If a person had no usual residence, the person was to be counted where he or she was staying on Census Day.

People temporarily away from their usual residence on Census Day, such as on a vacation or business trip, were to be counted at their usual residence.

Armed forces personnel in the United States. Members of the U.S. Armed Forces were counted at their usual residence (the place where they lived and slept most of the time), whether it was on or off the military installation. Family members of armed forces personnel were counted at their usual residence (for example, with the armed forces person or at another location).

Personnel assigned to each Navy and Coast Guard vessel with a U.S. homeport were given the opportunity to report an onshore residence where they usually stayed when they were off the ship. Those who reported an onshore residence were counted there; those who did not were counted at their vessel's homeport.

Personnel on U.S. flag merchant vessels. Crews of U.S. flag merchant vessels docked in a U.S. port, sailing from one U.S. port to another U.S. port, or sailing from a U.S. port to a Puerto Rico port were counted at their usual onshore residence if they reported one. Those who did not were counted as residents of the ship and were assigned as follows:

- The U.S. port, if the vessel was docked there on Census Day.
- The port of departure, if the ship was sailing from one U.S. port to another U.S. port, or from a U.S. port to a Puerto Rico port.

Crews of U.S. merchant ships docked in a foreign port (including the U.S. Virgin Islands, American Samoa, the Commonwealth of the Northern Mariana Islands, and Guam), sailing from one foreign port to another foreign port, sailing from a U.S. port to a foreign port, or sailing from a foreign port to a U.S. port were not included in the census.

People 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.

People in institutions. People under formally authorized, supervised care or custody, such as in federal or state prisons; local jails; federal detention centers; juvenile institutions; nursing or convalescent homes for the aged or dependent; or homes, schools, hospitals, or wards for the physically handicapped, mentally retarded, or mentally ill; or in drug/alcohol recovery facilities were counted at these places.

People in general hospitals. People in general hospitals or wards (including Veterans Affairs hospitals) on Census Day were counted at their usual residence. Newborn babies were counted at the residence where they would be living.

People in shelters. People staying on Census Day at emergency or transitional shelters with sleeping facilities for people without housing, such as for abused women or runaway or neglected youth, were counted at the shelter.

People with multiple residences. People who lived at more than one residence during the week, month, or year were counted at the place where they lived most of the time. For example, commuter workers living away part of the week while working were counted at the residence where they stayed most of the week. Likewise, people who lived in one state but spent the winter in another state with a warmer climate ("snowbirds") were to be counted at the residence where they lived most of the year.

People away from their usual residence on Census Day. Temporary, migrant, or seasonal workers who did not report a usual U.S. residence elsewhere were counted as residents of the place where they were on Census Day.

In some areas, natural disasters (hurricanes, tornadoes, flooding, and so forth) displaced households from their usual place of residence. If these people reported a destroyed or damaged residence as their usual residence, they were counted at that location.

People away from their usual residence were counted by means of interviews with other members of their families, resident managers, or neighbors.

Puerto Rico

Enumeration rules. Each person whose usual residence was in Puerto Rico was to be included in the census, without regard to the person's legal status or citizenship. As in previous censuses, people specifically excluded from the census were citizens of foreign countries temporarily traveling or visiting in Puerto Rico who had not established a residence.

Americans usually living in Puerto Rico but temporarily overseas were to be enumerated at their usual residence in Puerto Rico. Americans with a usual residence outside Puerto Rico were not counted as part of the Puerto Rico resident population.

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. If a person had no usual residence, the person was to be counted where he or she was staying on Census Day.

People temporarily away from their usual residence were to be counted at their usual residence. People who moved around Census Day were counted at the place they considered to be their usual residence.

Armed forces personnel in Puerto Rico. Members of the U.S. Armed Forces were counted at their usual residence (the place where they lived and slept most of the time), whether it was on or off the military installation. Family members of armed forces personnel were counted at their usual residence (for example, with the armed forces person or at another location).

Personnel assigned to each Navy and Coast Guard vessel with a Puerto Rico homeport were given the opportunity to report an onshore residence where they usually stayed when they were off the ship. Those who reported an onshore residence were counted there; those who did not were counted at their vessel's homeport.

Personnel on U.S. flag merchant vessels. Crews of U.S. flag merchant vessels docked in a Puerto Rico port, sailing from one Puerto Rico port to another Puerto Rico port, or sailing from a Puerto Rico port to a U.S. port were counted at their usual onshore residence if they reported one. Those who did not were counted as residents of the ship and were attributed as follows:

- The Puerto Rico port if the vessel was docked there on Census Day.
- The port of departure if the ship was sailing from one Puerto Rico port to another Puerto Rico port or from a Puerto Rico port to a U.S. port.

Crews of U.S. merchant ships docked in a foreign port (including the U.S. Virgin Islands, American Samoa, the Commonwealth of the Northern Mariana Islands, and Guam), sailing from a Puerto Rico port to a foreign port, or sailing from a foreign port to a Puerto Rico port were not included in the census.

People 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.

People in institutions. People under formally authorized, supervised care or custody, such as in federal or state prisons; local jails; federal detention centers; juvenile institutions; nursing or convalescent homes for the aged or dependent; or homes, schools, hospitals, or wards for the physically handicapped, mentally retarded, or mentally ill; or in drug/alcohol recovery facilities were counted at these places.

People in general hospitals. People in general hospitals or wards (including Veterans Affairs hospitals) on Census Day were counted at their usual residence. Newborn babies were counted at the residence where they would be living.

People in shelters. People staying on Census Day at emergency or transitional shelters with sleeping facilities for people without housing, such as for abused women or runaway or neglected youth, were counted at the shelter.

People with multiple residences. People who lived at more than one residence during the week, month, or year were counted at the place where they lived most of the time. For example, commuter workers living away part of the week while working were counted at the residence where they stayed most of the week.

People away from their usual residence on Census Day. Temporary, migrant, or seasonal workers who did not report a usual Puerto Rico residence elsewhere were counted as residents of the place where they were on Census Day.

In some areas, natural disasters (hurricanes, tornadoes, flooding, and so forth) displaced households from their usual place of residence. If these people reported a destroyed or damaged residence as their usual residence, they were counted at that location.

People away from their usual residence were counted by means of interviews with other members of their families, resident managers, or neighbors.

MAJOR COMPONENTS OF THE CENSUS 2000 PLAN

The Census Bureau prepared the Census 2000 plan to ensure the most accurate decennial census legally possible. This plan included data collection from 100 percent of households and housing units. In addition, the plan included an extensive statistical operation to measure and correct overall and differential coverage of U.S. residents in Census 2000. This operation consisted of a scientific sample of approximately 300,000 housing units and used regional groupings to generate corrected counts. To ensure that Census 2000 will be both more accurate and more cost-effective than the 1990 Census, the Census Bureau reviewed its procedures with input from a wide array of experts. In addition, the Census Bureau and Department of Commerce officials held more than 100 briefings for the members of Congress and their staff on the plan for Census 2000. The result has been an innovative departure from past practices that substantially increased overall accuracy and addressed the differential undercount of children, renters, and minorities. At the same time, the new methods of enumeration saved money and delivered results more quickly. The major components of the plan for Census 2000 included:

1. The Master Address File

To conduct Census 2000, the Census Bureau needed to identify and locate an estimated 118 million housing units in the Nation. The Census Bureau accomplished this goal by developing and maintaining the Master Address File (MAF). This vital operation took place with the assistance of the U.S. Postal Service (USPS); other federal agencies; tribal, state and local governments; community organizations; and by an intensive canvass of selected areas. The resulting file was more comprehensive than ever before.

In 1990, the Census Bureau relied on address lists purchased from vendors. As these lists were originally generated for marketing purposes, they proved to be less accurate in low-income areas. As a result, during the 1990 census, housing units were missed often enough to contribute notably to the undercount problem. Plans for Census 2000 were designed to address weaknesses found in the 1990 address list. The Census 2000 MAF started with the USPS address list, a list that does not discriminate against certain areas because of their marketing potential. Partnerships with state and local officials, community organizations, and tribal governments also played an important role in making sure the MAF is accurate; the local officials who knew the areas best helped develop the MAF. Finally, the Bureau made intensive efforts to create address lists in rural areas well in advance of the census.

City-style addresses. The USPS uses the term "city-style" for an address such as "123 Main Street," even though such an address may occur in small towns and increasingly along country roads. In areas where the USPS delivers mail primarily to city-style addresses, the Census Bureau created the MAF by combining addresses from the 1990 Census Address Control File with those addresses in the USPS Delivery Sequence File (DSF). The DSF is a national file of individual delivery point addresses. As part of a cooperative agreement, the USPS provided the Census Bureau with updated DSFs on a regular basis. The Bureau then located these addresses in its computer mapping system called TIGER® (Topologically Integrated Geographic Encoding and Referencing). If an address could not be located, the location was researched and resolved through an office operation or through assistance from local partners. As a result of this research, the Bureau identified new features and corrected and added address ranges to the TIGER® database.

Noncity-style addresses. In late 1998 and early 1999, the Census Bureau launched a comprehensive effort to canvass areas where most residences did not have city-style addresses. Over 30,000 canvassers visited approximately 22 million residences without a street address to enter their locations in the TIGER® system. The combination of innovative use of computer data and technology along with these visits allowed the Bureau to construct the most accurate address list ever, giving field enumerators more time to meet other challenges presented by the 2000 count.

Remote areas. In a few extremely remote and sparsely settled areas, census enumerators created the address list at the time of the initial census data collection while canvassing their assignment area and picking up or completing unaddressed questionnaires that the USPS previously had delivered to each household.

Nontraditional living quarters. A separate operation built an inventory of all facilities that were not traditional living quarters; for example, prisons and hospitals. The Bureau interviewed an official at each location using a Facility Questionnaire. The responses to the questionnaire identified each group quarters and any housing units associated with the location. The Bureau classified each group quarters and its associated housing units at the location according to whether they would be enumerated as part of special place enumeration or through regular enumeration. The Bureau added these group quarters and housing units to the MAF and linked them to the TIGER® database.

Local government partnerships. The Bureau relied on local knowledge to build the MAF. State, local, and tribal governments; regional and metropolitan planning agencies; and related nongovernmental organizations were encouraged to submit locally developed and maintained city-style address lists to the Census Bureau to enhance the MAF. The Bureau matched the local lists both to the MAF and TIGER® database and verified the status of each newly identified address through ongoing matches to updated address information from the USPS, other independent sources, and its own field operations. The Local Update of Census Addresses (LUCA) program was a partnership that allowed local and tribal governments to designate a liaison to review the portion of the MAF that covered their jurisdiction to help ensure its completeness. After processing the LUCA input, the Census Bureau provided feedback on the status of the adds, deletes, and corrections of addresses to the liaisons. The updated address list then was used to deliver census questionnaires.

2. Public Outreach and Marketing

In 1990, the mail response rate dropped in spite of the Census Bureau's support of a public service announcement (PSA) effort that aired donated advertisements. Part of this drop was caused by the Bureau's inability to ensure that PSAs were broadcast at optimum times and in appropriate markets. An evaluation of the 1990 PSA campaign noted that the ads were seldom placed at optimal times because decisions about when to air PSAs rested with local radio and television stations. Sixty percent of the U.S. population received 91 percent of the census advertising impact; 40 percent received only 9 percent. Based on its studies of prior outreach campaigns, the Bureau concluded that the professional control of a paid media campaign would produce the best results. Census 2000 launched a vigorous public outreach campaign to educate everyone about the importance of being counted. Among the improvements in public outreach and marketing were:

Partnerships/targeted community outreach. The Census Bureau built partnerships with local and tribal governments, businesses, and community groups to get the word out, to endorse the census, and to encourage constituents to respond. Beginning in 1996 and expanding in 1998, the Bureau hired government and community specialists to build relationships with local community and service-based organizations, focusing on groups representing traditionally undercounted populations. The Bureau deployed an extensive outreach program to reach schools, public sector employees, American Indians, and religious organizations. Businesses, nonprofit groups, and labor organizations also were asked to endorse participation and to publicize the census through employee newsletters, inserts with paychecks, and through communications with members and local chapters.

Direct mail. The census questionnaire and related materials delivered to individual addresses carried the same themes and messages as the overall campaign.

Public relations. The Census Bureau used public meetings and the news media to inform the public about the value of the census and to encourage response. Communications specialists were assigned to each field office to perform media outreach, to respond to media inquiries, and to coordinate the dissemination of the Census 2000 message. In many communities, the Census Bureau established local broadcaster/news director committees to emphasize Census 2000 to television viewers and radio listeners through broadcast segments and editorials in newspapers.

Paid advertising. The Census Bureau planned a targeted campaign to reach everyone through ads in newspapers, magazines, billboards, posters, radio, and television. A private advertising firm designed and implemented the Census 2000 advertising campaign. The Census Bureau conducted a first-ever paid advertising campaign, including a national media campaign aimed at increasing mail response. The campaign included advertising directed at raising mail response rates among historically undercounted populations, with special messages targeted to hard-to-enumerate populations. Advertising also focused on encouraging cooperation during the nonresponse follow-up procedures.

Media public relations. The Census Bureau assigned media specialists to the regional census centers to cultivate local press contacts and respond to local media inquiries.

Promotion and special events. A variety of special events, including parades, athletic events and public services television documentaries were cosponsored by state, local, and tribal governments and by community organizations and businesses to motivate people to respond.

More ways to respond. In 2000, in addition to mailing the census questionnaires, the Census Bureau made the forms available in stores and malls, in civic or community centers, in schools, and in other locations frequented by the public. A well-publicized, toll-free telephone number was available for those who wished to respond to the census by telephone. People also had the option to respond to the short form via the Internet.

Multiple languages. In 2000, as in all prior decennial censuses, questionnaires were in English (the Census Bureau has made Spanish-language questionnaires available in the past). However, for the first time in a decennial census, households had the option to request and receive questionnaires in five other languages (Spanish, Chinese, Korean, Tagalog, and Vietnamese). In addition, questionnaire assistance booklets were available in 49 languages.

3. Questionnaire Mailout/Mailback

In Census 2000, the questionnaire mailout/mailback system was the primary means of census-taking, as it has been since 1970. The short form was delivered to approximately 83 percent of all housing units. The short form asked only the basic population and housing questions, while the long form included additional questions on the characteristics of each person and of the housing unit. The long form was delivered to a sample of approximately 17 percent of all housing units.

USPS letter carriers delivered questionnaires to the vast majority of housing units that had city-style addresses. In areas without such addresses, enumerators hand delivered addressed census questionnaires to each housing unit. In very remote or sparsely populated areas, enumerators visited each housing unit and picked up or completed unaddressed questionnaires that the USPS previously delivered to each unit.

4. Collecting Data on Populations Living in Nontraditional Households

During a decennial census, the Census Bureau not only counts people living in houses and apartments, but also must count people who live in group quarters and other nontraditional housing units, as well as people with no usual residence. These units include nursing homes, group homes, college dormitories, migrant and seasonal farm worker camps, military barracks or installations, American Indian reservations, and remote areas in Alaska.

Some of the methods that were used for these special populations are listed below:

- The Census Bureau designed an operation for Census 2000 called Service-Based Enumeration (SBE) to improve the count of individuals who might not be included through standard enumeration methods. The SBE operation was conducted in selected service locations, such as shelters and soup kitchens, and at targeted outdoor locations.
- Another special operation counted highly transient individuals living at recreational vehicle campgrounds and parks, commercial or public campgrounds, marinas, and even workers' quarters at fairs and carnivals.
- The Census Bureau worked with tribal officials to select the appropriate data collection methodologies for American Indian reservations.
- Remote areas of Alaska, often accessible only by small airplanes, snowmobiles, four wheel-drive vehicles, or dogsleds, were enumerated beginning in mid-February. This special timing permitted travel to these areas while conditions are most favorable.
- The Census Bureau worked with the Department of Defense and the U.S. Coast Guard to count individuals living on military installations, and with the U.S. Maritime Administration to identify maritime vessels for enumeration.

5. Collecting Long Form Data to Meet Federal Requirements

The census is the only data gathering effort that collects the same information from enough people to get comparable data for every geographic area in the United States. The Census Bureau has used the long form on a sample basis since 1940 to collect more data, while reducing overall respondent burden. The Census 2000 long form asked questions addressing the same 7 subjects that appeared on the short form, plus an additional 27 subjects which were either specifically required by law to be included in the census or were required in order to implement other federal programs.

6. Retrieving and Processing the Data From the Returned Forms

The Census Bureau contracted with the private sector to secure the best available data capture technology. This technology allowed the Census Bureau to control, manage, and process Census 2000 data more efficiently.

The Census 2000 Data Capture System has been a complex network of operational controls and processing routines. The Census Bureau recorded a full electronic image of many of the questionnaires, sorted mail-return questionnaires automatically, used optical mark recognition for all check-box items, and used optical character recognition to capture write-in character based data items. The system allowed the Census Bureau to reduce the logistical burdens associated with handling large volumes of paper questionnaires. Once forms were checked in, prepared, and scanned, all subsequent operations were accomplished using the electronic image and data capture.

7. Matching and Unduplication

One of the main goals of Census 2000 was to make it simpler for people to be counted by having census forms available in public locations and providing multiple language translations. Responses also were accepted over the telephone and, for the short form only, on the Internet. These options made it easier for everyone to be counted, but increased the possibility of multiple responses for a given person and household. Advances in computer technology in the areas of computer storage, retrieval, and matching, along with image capture and recognition, gave the Census Bureau the flexibility to provide multiple response options without incurring undue risk to

the accuracy of the resulting census data. Unduplication of multiple responses in past censuses required massive clerical operations. Modern technology allowed the Census Bureau to spot and eliminate multiple responses from the same household.

8. Geographic Database Development—TIGER®

The Census Bureau's TIGER® (Topologically Integrated Geographic Encoding and Referencing) system provided the geographic structure for the control of the data collection, tabulation, and dissemination operations for Census 2000. The TIGER® system links each living quarter to a spatial location, each location to a specific geographic area, and each geographic area to the correct name or number and attributes. The database constantly changes; for example, when new streets are built and the names and address ranges of existing streets change. To ensure that the TIGER® database is complete and correct, the Census Bureau works with other federal agencies; state, local and tribal governments; and other public and private groups to update both its inventory of geographic features and its depiction of the boundaries, names, and attributes of the various geographic entities for which the Census Bureau tabulates data.

The Census Bureau obtains updates to the features in the TIGER® system, including associated address ranges, from its various address list improvement activities, from partnership efforts like the Local Update of Census Addresses (LUCA) program, from digital files provided by some local and tribal governments, and from local and tribal governments in response to a preview of the census map of their jurisdictions.

As a part of updating the TIGER® system, the Census Bureau conducted boundary surveys in 1998 and 1999 to determine the boundaries that were in effect on January 1, 2000, which were the official Census 2000 boundaries for functioning governments. The Census Bureau also relied on other programs to update the TIGER® boundaries data, including a program that allowed local or tribal officials to review proposed Census 2000 boundaries a program that allowed local and tribal participants the opportunity to delineate Census 2000 participant statistical areas (block groups, census county divisions, census designated places, and census tracts) and additional programs that offered participants the opportunity to identify other areas for which the Census Bureau would tabulate data (for example, traffic analysis zones).

9. Field Offices and Staffing

The Census Bureau opened a national network of temporary offices from which employees collected and processed the data for Census 2000. Establishing the office network required, for most offices, the leasing of office space, purchasing furniture and equipment, purchasing and installing computer hardware and software, and establishing voice and data line connections. The plan for the office structure included:

- **12 Regional Census Centers (RCCs).** Through a network of Census Field Offices, the RCCs managed all census field data collections operations, address listings, and address list enhancement for city-style address areas; coordinated the LUCA program; produced maps; updated TIGER®; worked with local participants in the Public Law 94–171 Redistricting Data Program; and recruited temporary staff.
- **402 Census Field Offices (CFOs).** Opened in September 1998, these offices helped with address listing; conducted local recruiting; and performed clerical review of completed field address listing work.
- **520 Local Census Offices (LCOs).** These offices produced enumerator maps and assignments; conducted local recruiting; conducted outreach and promotion; conducted group quarters and service-based enumeration activities; conducted update/leave and list/enumerate operations; conducted nonresponse follow-up, coverage improvement follow-up, and address verifications; and performed the block canvass operations.
- **3 New Data Capture Centers (DCCs).** These centers checked in mail returns, prepared questionnaires, and conducted data capture.
- **1 National Processing Center (NPC).** In addition to performing the functions of a Data Processing Center, it processed address listing data and performed coding of questionnaire data.

To conduct a successful Census 2000, the Census Bureau recruited and tested hundreds of thousands of applicants for a wide range of positions, such as local census office managers, enumerators, partnership specialists, media specialists, and clerks. This required an extraordinary recruiting effort throughout the country. Every job applicant was required to pass a written test and was screened for criminal history. Applicants selected for employment had to take an oath of office and sign an affidavit agreeing not to disclose census information.

Many factors converged to present the Census Bureau with unprecedented challenges in hiring, retraining, and training the necessary employees for Census 2000. To address this challenge, the Census Bureau implemented several new approaches:

- Innovative methods of setting pay and incentives.
- Expanding the potential labor force by working with other federal agencies and state agencies to reduce barriers presented by various income transfer programs, and encouraging recipients of these programs to work for the Census Bureau. Consistent with these efforts, the Census Bureau hired more welfare-to-work employees than any other federal agency.
- Earlier and expanded training for enumerators.

10. Data Collection: Basic Enumeration Strategy

To ensure that the Census Bureau obtained a completed questionnaire from every household, or as close to that as possible, the Census Bureau developed a ten-part, integrated enumeration strategy.

- The first part of this strategy ensured that a questionnaire was delivered to every housing unit, by one of three data collection methods:
  - **Mailout/mailback.** U.S. Postal Service delivered questionnaires to every "city style" housing unit with a street name and house number.
  - **Update/leave.** Census enumerators delivered questionnaires to housing units without street names and house numbers to be mailed back, mainly in rural areas, and corrected and updated the address list and maps for any additions or errors.
  - **List/enumerate.** In remote and sparsely populated areas, enumerators visited every housing unit and completed the enumeration as delivered.
- The second part of this strategy provided people with assistance, as needed, to complete and return their questionnaires.
  - **Telephone questionnaire assistance (TQA).** The Census Bureau operated a toll-free TQA system, in English, Spanish, and several other languages, providing automated touch-tone answers to common questions, personal operator answers to those requesting it, and special service for the hearing impaired to assist them in completing a short form. Callers also could request a questionnaire.
  - **Internet.** Respondents were able to access an Internet Web site to both receive assistance and, for short forms, submit their responses.
  - **Questionnaire assistance centers.** The Census Bureau opened Walk-In Questionnaire Assistance Centers in convenient locations to assist respondents with filling out questionnaires in person. Bilingual staff was available in these centers.
  - **Questionnaire assistance guides.** Questionnaire Assistance Guides were available in 49 languages.
- The third part of this strategy provided a means for people who believed they had not received a questionnaire or were not included on one. Part of this operation was targeted to members of historically undercounted groups. The major element of this operation was the distribution of "Be Counted Questionnaires." The Census Bureau distributed these questionnaires at public locations, such as Walk-In Questionnaire Assistance Centers and some public and private facilities, staffed with bilingual competencies when appropriate. These forms were available in English, Spanish, Korean, Chinese, Vietnamese, and Tagalog.

- The fourth part of this strategy was designed to enumerate people who did not live in traditional housing units, including group quarters situations, such as nursing homes and college dormitories; people living in migrant farm worker camps, on boats, on military installations; and federal employees living overseas. This part of the strategy was expanded further because the Census 2000 Dress Rehearsal results indicated that, compared to 1990, many more people did not live in traditional housing units.
  - **Group quarters enumeration.** This operation identified the location of all group living quarters and made advance visits to each group quarter. Census staff listed all residents in April 2000 and distributed questionnaire packets.
  - **Transient night operation.** Transient Night enumerated people living a mobile lifestyle by visiting and interviewing people at racetracks, commercial or public campgrounds and those for recreational vehicles, fairs and carnivals, and marinas.
  - **Remote Alaska enumeration.** This operation sent out enumerators to deliver and complete questionnaires for people living in outlying or remote settlements in Alaska.
  - **Domestic military/maritime enumeration.** The Census Bureau, in cooperation with the Department of Defense and U.S. Coast Guard, identified living quarters and housing units on military installations and ships assigned to a U.S. home port and used appropriate enumeration methods.
  - **Overseas enumeration.** The Census Bureau, in cooperation with the Department of Defense and other departments, counted federal employees assigned overseas (including members of the armed forces) and their dependents, for apportionment purposes.
- The fifth part of this strategy targeted people with no usual residence or address. This operation was conducted at selective service locations, such as shelters and soup kitchens and non-sheltered outdoor locations.
- The sixth part of this strategy deployed special data collection methods to improve cooperation and enumeration in certain hard-to-enumerate areas.
  - Regional Census Centers used the planning database and their knowledge of local conditions to identify appropriate areas for targeted methods. A team of enumerators then went to targeted areas, such as areas with high concentrations of multiunit buildings, safety concerns or low enumerator production rates, and conducted team enumerations.
  - Mail response rates and maps were available to local and tribal officials so they could work with Census Bureau staff to identify low-response areas and implement additional outreach and publicity efforts and targeted enumeration efforts.
  - In partnership with local and tribal governments and community-based organizations, local census offices established Walk-In Questionnaire Assistance Centers in locations, such as community centers and large apartment buildings, to provide assistance in English, Spanish, and other and foreign languages.
  - The Be Counted Program made unaddressed questionnaires available in the Walk-In Assistance Centers and other locations.
  - Letters were mailed to managers of large multiunit structures and gated communities informing them of upcoming census operations.
  - In preidentified census blocks, census enumerators canvassed the blocks, updated the address list, and delivered and completed census questionnaires for all housing units.
  - In preidentified blocks originally classified as “Mailout/Mailback” areas, enumerators delivered the questionnaire and updated the address list (Urban Update/Leave).
- The seventh part of this strategy, coverage-edit and telephone follow-up, reviewed completed questionnaires for potential missing, incomplete, or inconsistent data.

- **Coverage edit.** The Census Bureau checked completed questionnaires for discrepancies between the number of persons reported and the number of persons for whom information was provided, forms returned where population count was blank, and forms for certain households that contained complex living arrangements.
- **Follow-up.** Telephone clerks contacted and reinterviewed the households with discrepancies identified after mail returns were data captured; field staff resolved discrepancies found on enumerator returned questionnaires.
- **Content edit.** Computer operations identified missing or incomplete responses to population or housing units and used statistical imputation to complete the information.

- The eighth part of this strategy, nonresponse follow-up (NRFU), was the effort to secure a response in Census 2000 from every housing unit and resident. One hundred percent of nonresponding households were followed up.
  - In the initial period, the Census Bureau used reminder publicity urging people to return their questionnaires.
  - Following the period of mail response, nonresponding households were identified and listed.
  - Enumerators visited all nonresponding addresses to obtain a completed questionnaire for each household.
  - In mailout/mailback areas, enumerators also followed up 100 percent of housing units identified as nonexistent or vacant by the U.S. Postal Service.
  - In update/leave areas, enumerators followed up 100 percent of housing units where the Census Bureau was unable to deliver questionnaires.
  - The Census Bureau conducted quality assurance checks of NRFU to ensure the completeness and accuracy of the operations.
- The ninth part of strategy involved additional operations to improve the coverage of Census 2000.
  - In mailout/mailback areas, enumerators revisited addresses for which questionnaires were returned in NRFU reporting the housing unit as vacant or delete and which were not initially identified by the U.S. Postal Service as undeliverable as addressed.
  - In update/leave areas, enumerators revisited addresses for which a questionnaire was returned as vacant or nonexistent in NRFU, but the questionnaire was not returned as undeliverable during the update/leave operation.
  - In both mailout/mailback and update/leave areas, mail returns checked in but not data captured were rechecked and, if necessary, revisited.
- The tenth part of this strategy was unduplication, which involved reviewing and selecting person information when more than one questionnaire data set was reported for a single address. Dress Rehearsal results showed that the multiple ways in which people could respond to the census increased the possibility of more than one response being submitted for a given person or household. Automated matching technologies allowed the Census Bureau to resolve situations where more than one form was received for an address.

11. Special Populations

American Indian and Alaska Native Areas and Hawaiian Home Lands

The Census Bureau based its strategy for enumerating the populations in the American Indian and Alaska Native Areas (AIANAs) and Hawaiian home lands on building partnerships for:

- **Address list development.** The Census Bureau used U.S. Postal Service's Delivery Sequence Files in AIANAs and Hawaiian home lands where there were city-style addresses. In other areas, the Census enumerators used the "update/leave" method where a form is left with the respondent for return by mail. In more remote areas, the census enumerator actually delivered the

form and conducted the census interview all in one visit. Tribal governments had an opportunity to participate in the LUCA program. The Census Bureau worked with tribal officials to select the appropriate data collection methodology for each area.

- **Geographic programs.** There were many programs available to review and define geographic areas (see Appendix A for more details).
- **Marketing.** Census Bureau staff and tribal liaisons compiled lists of available media for paid advertising and promotion. The Census Bureau also enlisted the help of tribal liaisons and locally established "Complete Count Committees" to assist with promotional activities.
- **Field operations.** The Census Bureau worked with tribal governments to assist in all levels of field operations, including training local staff in cultural awareness, assisting in recruiting efforts, and identifying locations for census questionnaire assistance centers.
- **Data dissemination.** While most data were processed in the same way as data for rest of the nation, the Census Bureau worked with tribal governments to meet their data needs.

Puerto Rico

The Census 2000 operations in Puerto Rico were comparable to activities in the 50 states and the District of Columbia. The Census Bureau worked in partnership with the government of Puerto Rico to ensure that Census 2000 data met the federal legal requirements.

- **Build partnerships at every stage of the process.** The Census Bureau entered a Memorandum of Agreement with the governor of Puerto Rico which outlined mutual roles and responsibilities. In consultation with the government of Puerto Rico, census questionnaire content was developed to meet the legislative and programmatic needs of Puerto Rico. A separate advertisement and promotion campaign was conducted in Puerto Rico to build awareness of the census and boost participation. Address list development allowed Puerto Rico to participate in the LUCA program.
- **Census questionnaires.** Census questionnaires were readily available in Spanish and also in English, if requested. In Puerto Rico, only update/leave method was used to distribute questionnaires. However, questionnaires also were placed in Walk-In Questionnaire Assistance Centers and other locations identified through consultation with local partners.
- **Use of technology.** The Census Bureau made use of the same technological advances that were used in the United States. Many operations performed clerically in 1990 were automated. Data users have access to Census 2000 data products through the Internet using the American FactFinder (AFF) system. The AFF offers a separate user interface utilizing the Spanish language for Census 2000 Puerto Rico data.
- **Special techniques to improve coverage.** The update/leave methodology for census data collection was used for the first time in Puerto Rico. Census enumerators updated the Master Address File for Puerto Rico while delivering questionnaires. Respondents had the opportunity to complete the census questionnaires and return them by mail.

Island Areas

The Census Bureau conducted the Census 2000 operations in American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands (collectively referred to as the "Island Areas") in partnerships with the government of each area. These partnerships ensured that Census 2000 data met federal legal requirements, as well as the specific needs of each area. The Census 2000 operations in the Island Areas were built around the following:

- **Data collection.** Data collection in the Island Areas used the list/enumerate method. This decision was based on recommendations from Island Area representatives and an analysis of the various data collection methodologies. Unlike stateside list/enumerate procedures, the Census Bureau delivered Advance Census Reports before the list/enumerate operation and asked respondents to complete the form and hold it for enumerator to pick up.

- **Build partnerships at every stage of the process.** The Census Bureau developed and signed a Memorandum of Agreement with the governor of each Island Area that outlined mutual roles and responsibilities. In consultation with the governments of the Island Areas, census questionnaire content was developed to meet the legislative and programmatic needs of each Island Area. A separate advertisement and promotion campaign was developed for each Island Area to build awareness of the census and boost participation.
- **Census questionnaires.** Census questionnaires and other forms were readily available to respondents in convenient locations identified through consultation with local partners.
- **Use of technology.** The Census Bureau made greater use of the telephone to provide assistance to respondents with questions about Census 2000. Data users have access to Census 2000 data and products through the Internet using the American FactFinder system.

12. Telecommunications Support and Automated Data Processing

Using dedicated links and other secure lines, the Census 2000 telecommunications network linked all census offices including: Census Headquarters in Suitland, Maryland, the 520 Local Census Offices, the 12 Regional Census Offices, the 12 Regional Census Centers, the Puerto Rico Area Office, the Maryland Computer Center in Bowie, the National Processing Center in Jeffersonville, Indiana, and the three contracted Data Capture Centers (Phoenix, AZ, Pomona, CA, and Essex, MD). The Census Bureau also established communication links with planned commercial telephone centers to assist with the Telephone Questionnaire Assistance program and the coverage edit follow-up program.

The use of electronic imaging reduced the logistical and staffing requirements of handling large volumes of paper questionnaires. Some components of data capture were performed by private-sector partners. The Census Bureau used commercially available advanced hardware and software rather than limiting itself to creating in-house solutions.

The most significant features of the Data Capture System included (1) work divided among four centers, (2) full electronic imaging and processing of questionnaires, (3) automated sorting of mailed responses, (4) optical mark recognition for check-box data, (5) optical character recognition for write-in data with automated processes to resolve difficult cases, and (6) quality assurance checks.

13. Quality Assurance

To detect, correct, and minimize performance errors in critical census operations, the Census Bureau developed individual quality assurance plans for all activities that could contribute to errors in outcome, such as misprinted census forms, inaccurate maps or address lists, faulty intelligent character recognition, inadequate training of enumerators, and miskeyed entries.

14. The Census 2000 Dress Rehearsal in 1998

A good dress rehearsal is crucial to a successful census, and the key to any dress rehearsal is making it as much like the actual event as possible. The Census Bureau conducted Census 2000 Dress Rehearsal in three sites: Sacramento, California; Columbia, South Carolina along with 11 surrounding counties in north central South Carolina; and the Menominee American Indian Reservation in northeastern Wisconsin.

Since the summer of 1996, the Census Bureau worked closely with local officials and community-based organizations in each of the three sites to plan and build the various infrastructures needed to ensure a successful dress rehearsal. These joint activities included refining the geographic database, building and refining the address list, and working with community and tribal organizations to plan effective outreach and promotion efforts. Also, the Census Bureau recruited staff in all three sites to complete address list development and verification.

The dress rehearsal allowed for a thorough demonstration of the most critical procedures for Census 2000. These procedures included address list development; marketing and promotion; and data collection, processing, and tabulation. The dress rehearsal plan also demonstrated the use of statistical sampling in four major census operations: nonresponse follow-up, housing units designated as undeliverable as addressed by the U.S. Postal Service, integrated coverage measurement (ICM), and the long form survey.

15. Data Dissemination Through the Internet

The census provides a wealth of data that researchers, businesses, and government agencies are eager to use. Taking advantage of modern computer and Internet capabilities, the Census Bureau planned to make data from Census 2000 more readily available than any previous decennial census data. The Census 2000 data are tabulated using the Data Products Production (DPP) system and disseminated using the American FactFinder (AFF) system on the Internet, in addition to CD-ROMs and DVDs. The AFF provides an interactive electronic system to allow data users to access data products, documents, and online help, as well as to build custom data products.

The Census Bureau solicited the advice and recommendations of data users throughout the planning, design, and testing stages of the AFF system (initially known as the Data Access and Dissemination System (DADS)). The system is accessible to the widest possible array of users through the Internet and all available intermediaries, including the nearly 1,800 data centers and affiliates, the 1,400 Federal Depository libraries and other libraries, universities, and private organizations. It also allows users to create customized products, such as tables, charts, graphs, and maps for census geographic areas of their choice, and access metadata that provide documentation and explanatory information for data subjects and geographic areas.

16. Evaluation and Preparation for 2010

After the completion of Census 2000, the Census Bureau plans to conduct a variety of post census evaluation studies, as it has after all the previous censuses. These studies will help data users, both within and outside the Census Bureau, to assess the data and plan for the 2010 Census. The evaluation studies generally rely on demographic analysis, statistical methods, and ethnographic analyses.

GLOSSARY

100-Percent Data

Information based on a limited number of basic population and housing questions collected from both the short form and the long form for every inhabitant and housing unit in the United States.

100-Percent Edited Detail File (HEDF)

Files composed of individual records of information on people and housing units for the 100-percent census data items from the census questionnaires. Estimation is included in these files. These files are used for tabulation purposes and are not released to the public.

Accuracy and Coverage Evaluation (A.C.E.)

The Accuracy and Coverage Evaluation (A.C.E.) is a survey designed to measure the undercount/overcount of the census. The A.C.E. was designed to assess the size and characteristics of the population missed or double-counted in Census 2000, similar to the originally planned Integrated Coverage Measurement (ICM) Survey.

Advance Notice Letter/Reminder Card (ANL/RC)

These are part of the questionnaire mailing strategy. In every area except list/enumerate, the Census Bureau sends an advance notice letter to every mailout address to alert households that the census form will be sent to them soon. Reminder Card is a postcard that is sent to addresses on the decennial Master Address File (see definition below) to remind respondents to return their census questionnaires or to thank them if they already have. All addresses in mailout/mailback areas receive a postcard. The Census Bureau also mails these postcards to postal patrons in update/leave areas.

American FactFinder (AFF)

An electronic system for access and dissemination of Census Bureau data. The system is available through the Internet and offers prepackaged data products and the ability to build custom products. The system serves as the vehicle for accessing and disseminating data from Census 2000 (as well as economic censuses and the American Community Survey). The system was formerly known as the Data Access and Dissemination System (DADS).

Apportionment

Apportionment is the process of dividing up the 435 memberships, or seats, in the House of Representatives among the 50 states. The Census Bureau has a dual responsibility in this connection. It conducts the census at 10-year intervals. At the conclusion of each census, the Census Bureau uses the results for calculating the number of House memberships each state is entitled to have. The latter process is the initial use of the basic results of each census.

Be Counted Enumeration and Be Counted Form

The Be Counted enumeration procedure targets areas that are traditionally undercounted. Unaddressed census questionnaires (Be Counted forms) are placed at selected sites where people who believe they were not counted can pick them up, complete them, and mail them to the Census Bureau. The sites are in targeted areas that local governments and community groups, in conjunction with the Census Bureau, identify as traditionally undercounted.

Census 2000 Publicity Office (C2PO)

An office at the Census Bureau which developed, implemented, and coordinated an integrated marketing program for Census 2000, including paid advertising, direct mail, public relations, partnerships, and local outreach.

Census Address List Improvement Act of 1994

See Program for Address List Supplementation (PALS) below.

Census Edited File (CEF)

This file contains the 100-percent edited characteristics/records for all households and people in the census. The edits include consistency edits and imputation for items or persons where the data are insufficient. See descriptions for 100-percent data and census unedited file.

Census Information Center (CIC)

The Census Information Center Program (CIC) is the community-based component of the Census Bureau's data dissemination network. While census data are readily available on CD-ROM, the Census Bureau's Web site on the Internet, in its 12 Regional Offices, 1,400 Federal Depository Libraries, and 1,800 state and local government agencies participating in the State Data Center Program, the CICs provide access to local communities that might not have access through these traditional channels. CIC's goal is to provide efficient access to Census Bureau data and data products to organizations representing populations that have been traditionally undercounted in censuses and surveys.

Census Unedited File (CUF)

A file created by merging the control file for the decennial master address file with the decennial response file of unedited data after the primary selection algorithm has been applied. This file contains the final housing unit and person counts. It is used to generate apportionment data as well as related "raw" or unedited census data.

Computer-Assisted Personal Interview (CAPI)

A method of data collection consisting of the interviewer asking questions displayed on a laptop computer screen and entering the answers directly into the computer.

Computer-Assisted Telephone Interviewing (CATI)

A method of data collection using telephone interviews in which the questions to be asked are displayed on a computer screen and responses are entered directly into the computer.

Confidentiality

The guarantee made by law (Title 13, United States Code) to individuals who provide census information regarding nondisclosure of that information to others.

Confidentiality Edit

The name for the Census 2000 disclosure avoidance procedure.

Coverage Edit/Coverage Edit Follow-Up (CEFU)

An edit performed on the mailback census response universe. Census staff make telephone calls to resolve forms that are incomplete or have other coverage discrepancies, such as a difference between the number of people reported in that household and the number of people for whom census information was provided on the form. This edit includes the large household follow-up.

Coverage Improvement Adjustment

This phrase was included in the table outlines and the technical documentation before the review, analysis, and recommendation on whether to adjust Census 2000 data for coverage improvement was completed. As the data are not adjusted, a zero (0) will appear. This phrase does not refer to any other outreach or collection operations which were introduced to improve coverage in Census 2000.

Coverage Improvement Follow-Up (CIFU)

A procedure for the traditional census in which housing units with conflicting status information are followed up.

Data Access and Dissemination System (DADS)

The system is now known as the American FactFinder (AFF).

Data Capture Center (DCC)

A decentralized facility that checks in questionnaires returned by mail, creates images of all questionnaire pages, and converts data to computer readable format. The DCCs also perform other computer processing activities, including automated questionnaire edits, work flow management, and data storage. There is one permanent DCC, the National Processing Center in Jeffersonville, Indiana. For Census 2000, the Census Bureau set up three temporary DCCs. The temporary facilities were provided and operated by a private contractor through the Data Capture Services contract.

Data Capture System 2000 (DCS 2000)

The DCS 2000 is a data capture system that is used to capture information from census forms. For Census 2000, this system processed more than 150 million incoming forms, digitally captured and processed billions of bits of information on the forms, converted automatically the image of the form to text-based data, and edited/repaired data that the system was unable to decipher automatically.

Decennial Census

The census of population and housing, taken by the Census Bureau in years ending in 0 (zero). Article I of the Constitution requires that a census be taken every 10 years for the purpose of reapportioning the U.S. House of Representatives.

Decennial Master Address File (DMAF)

The decennial version of the Master Address File has features for controlling and tracking the long- and short-term operations and programs of the Census 2000. The DMAF contains the processing status information to support document mailouts; data capture progress control, tracking, and reporting; and field enumeration processes (notably follow-ups). The DMAF is limited to addresses that the Census Bureau has successfully linked to the TIGER® database. See Master Address File.

Decennial Response File (DRF)

Contains every response to the census from all sources. The primary selection algorithm is applied to this file to unduplicate people between multiple returns for a housing unit and to determine the housing unit record and the people to include at the housing unit. The DRF is then combined with the Decennial Master Address File to create the census unedited file (CUF).

Delivery Sequence File (DSF)

A computerized file containing all delivery point addresses serviced by the U.S. Postal Service (USPS). The USPS updates the DSF continuously as its letter carriers identify addresses for new delivery points or changes in the status of existing addresses.

Demographic Analysis (DA)

A method the Census Bureau uses to measure coverage at the national level. It differs from survey coverage estimates, such as Post-Enumeration Survey, Integrated Coverage Measurement, or Accuracy and Coverage Evaluation, in that it does not rely on case-by-case matching of census records. To produce an estimate of the total population, DA relies on administrative records to provide estimates of births, deaths, immigration, and emigration. DA provides estimates on the national level only.

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 normally indicated as 0.

Disclosure Avoidance (DA)

Statistical methods used in the tabulation of data prior to releasing data products to ensure the confidentiality of responses.

Dual-System Estimation (DSE)

The estimation methodology used for the Accuracy and Coverage Evaluation (A.C.E.). This operation uses a geographic sample of block clusters to find people missed by the census or A.C.E. and any errors from the census. The information is then processed using computer matching, clerical matching, and field follow-up to resolve discrepancies.

Family

A group of two or more people who reside together and who are related by birth, marriage, or adoption.

Geocoding

A code assigned to identify a geographic entity; to assign an address (such as housing unit, business, industry, farm) to the full set of geographic code(s) applicable to the location of that address on the surface of Earth.

Group Quarters

A facility where people live that is not a typical household-type living arrangement. The Census Bureau classifies all individuals not living in households as living in group quarters. There are two types of group quarters institutional (for example, correctional facilities, nursing homes, and mental hospitals) and noninstitutional (for example, college dormitories, military bases and ships, hotels, motels, rooming houses, group homes, missions, shelters, and flophouses).

Heterogeneity

Heterogeneity occurs when blocks of housing units assigned to sampling strata or groupings are not similar in terms of the likelihood of being included or missed by the census. Heterogeneity creates difficulty for the small area estimation process because the correction factor gets applied to all people with the specified characteristic in that sampling poststratum, even through some of them do not actually have the coverage characteristics.

Homogeneity

The assumption of homogeneity expects that all people in a particular sampling stratum or grouping will be very much alike in terms of their likelihood of being included or missed by the census. The grouping of people in a particular stratum is called poststratum, such as all White, non-Hispanic male renters ages 18-22 in a rural area. A lack of homogeneity in a particular sample block is not an error, but it does create difficulty for the small area estimation process. This happens because the correction factor gets applied to all people with the specified characteristic in that poststratum, even though some of them do not exhibit the same coverage characteristics.

Household

Household refers to all of the people who occupy a housing unit.

Housing Unit

A housing unit is a house, an apartment, a mobile home or trailer, a group of rooms, or a single room occupied as a separate living quarters, or if vacant, intended for occupancy as a separate living quarters. Separate living quarters are those in which the occupants live separately from any other individuals in the building and which have direct access from outside the building or through a common hall. For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible.

Imputation

When information is missing or inconsistent, the Census Bureau uses a method called imputation to assign values. Imputation relies on the statistical principle of "homogeneity," or the tendency of households within a small geographic area to be similar in most characteristics. For example, the value of "rented" is likely to be imputed for a housing unit not reporting on owner/renter status in a neighborhood with multiunits or apartments where other respondents reported "rented" on the census questionnaire. In past censuses, when the occupancy status or the number of residents was not known for a housing unit, this information was imputed.

Internet Questionnaire Assistance (IQA) An operation which allows respondents to use the Census Bureau's Internet site to (1) ask questions and receive answers about the census form, job opportunities, or the purpose of the census and (2) provide responses to the short form.

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. In Pareto interpolation, the median is derived by interpolating between the logarithms of the upper and lower income limits of the median category. It is used by the Census Bureau in calculating median income within intervals wider than $2,500.

List/Enumerate

A method of data collection in which temporary field staff, called enumerators, list each residential address, spot the location of each on a census map, and interview the residents of the household during a single visit. This completes the census address list for these areas and provides the information needed to update the TIGER® database and Master Address File (see definitions below).

Local Update of Census Addresses (LUCA)

A Census 2000 program, established in response to requirements of P. L. 103-430. It provided an opportunity for state, local, and tribal governments to review and update individual address information in the Master Address File and associated geographic information in the TIGER® database before using the addresses for questionnaire delivery. This improved the completeness and accuracy of both computer files and the census.

Long Form

The decennial census questionnaire, sent to approximately one in six households, contains all questions on the short form, as well as additional detailed questions relating to the social, economic, and housing characteristics of each individual and household. Information derived from the long form is referred to as sample data and is tabulated for geographic entities as small as the block group level.

Mailout/Mailback (MO/MB)

A method of data collection in which the U.S. Postal Service delivers addressed questionnaires to residents who are asked to complete and mail back the questionnaire to the appropriate Census Bureau office. This method is used for more than 80 percent of all households (usually with city-style addresses).

Master Address File (MAF)

A computer file based on a combination of the addresses in the 1990 census address file and current versions, supplemented by address information provided by state, local, and tribal governments. The MAF is continually updated to provide a basis for creating the Census 2000 address list, the address list for the American Community Survey, and the address list for the Census Bureau's other demographic surveys.

Metadata

Information about the content, quality, condition, and other characteristics of data.

Microdata

Nonaggregated data about the units sampled. For surveys of individuals, microdata contain records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

Nongovernment Organization

The partnerships developed during Census 2000 planning include national and local organizations and community groups that are not governmental entities.

Nonresponse Follow-up

A census follow-up operation in which temporary field staff, known as enumerators, visit addresses from which no response was received.

Nonsampling Error

Errors that occur during the measuring or data collection process. Nonsampling errors can be the most serious types of errors because they yield biased results when most of the errors distort the results in the same direction. Unfortunately, the full extent of nonsampling error is unknown. Decennial censuses traditionally have experienced nonsampling errors, most notably undercount, resulting from people being missed in the enumeration processes.

Optical Character Recognition (OCR)

Technology that uses an optical scanner and computer software to "read" human handwriting.

Optical Mark Recognition (OMR)

Technology that uses an optical scanner and computer software to scan a page, recognize the presence of marks in predesignated areas, and assign a value to the mark depending on its specific location and intensity on a page.

Poststratum

Information about the current occupants of each housing unit in the Accuracy and Coverage Evaluation (A.C.E.) survey found during the A.C.E. interview is used to form groupings called "poststrata." This information, including the age of respondent, current owner/renter status, etc., is used to form homogeneous groupings and improve the estimation process. By contrast, the initial A.C.E. strata are formed using aggregate information about each block as of the 1990 census.

Primary Selection Algorithm (PSA)

Computer program applied to the decennial response file (DRF) to eliminate duplicate responses and to determine the housing unit record and the people to include at the housing unit. After this procedure, the DRF is merged with the Decennial Master Address File to create the census unedited file.

Program for Address List Supplementation (PALS)

A program providing all governmental units and regional and metropolitan agencies the opportunity to submit lists of individual addresses for their community to the Census Bureau for use in building the MAF. Ongoing submissions and feedback between the Census Bureau and local governments on this program, enabled by the Census Address List Improvement Act of 1994 (P.L. 103-430) help ensure the completeness and accuracy of the Master Address File and the TIGER® database.

Public Law (P.L.) 94-171

Public Law (P.L.) 94-171, enacted in 1975, directs the Census Bureau to make special preparations to provide redistricting data needed by the 50 states. Within a year following Census Day, the Census Bureau must send the data agreed upon to redraw districts for the state legislature to each state's governor and majority and minority legislative leaders.

To meet this legal requirement, the Census Bureau set up a voluntary program that enables participating states to receive data for voting districts (e.g., election precincts, wards, state house, and senate districts) in addition to standard census geographic areas, such as counties, cities, census tracts, and blocks.

Public Law (P.L.) 103-430

Public Law (P.L.) 103-430, enacted in 1994, amends Title 13, United States Code, to allow designated local and tribal officials access to the address information in the Master Address File to verify its accuracy and completeness. This law also requires the U.S. Postal Service to provide its address information to the Census Bureau to improve the Master Address File.

Public Law (P.L.) 105-119

Public Law (P.L.) 105-119, enacted in 1997, directs the Census Bureau to make publicly available a second version of Census 2000 data that does not include the corrections for overcounts and undercounts measured in the Accuracy and Coverage Evaluation (A.C.E.). The format, timing, geographic levels, and price of the P.L. 94-171 and these data are identical.

Public Use Microdata Area (PUMA)

An area that defines the extent of territory for which the Census Bureau tabulates public use microdata sample (PUMS) data.

Public Use Microdata Sample (PUMS)

Hierarchical files containing small samples (5% and 1%) of individual records from the census long form showing characteristics of the housing units and people included on those forms.

Quality Assurance (QA)

Quality assurance represents a broad philosophy and specific procedures that are designed to build quality into the system, constantly improve the system, and integrate responsibility for quality with production.

Questionnaire Mailing Strategy

For Census 2000, an advance notice letter, a questionnaire, and a reminder/thank you postcard were sent to every mailout address.

Reapportionment

The redistribution of seats in the U.S. House of Representatives among several states on the basis of the most recent decennial census as required by Article 1, Section 2 of the Constitution. See apportionment and redistricting.

Redistricting

The process of revising the geographic boundaries of areas from which people elect representatives to the U.S. Congress, a state legislature, a county or city council, a school board, and the like to meet the legal requirement that such areas be as equal in population as possible following a census. See apportionment and reapportionment.

Sample Census Edited File (SCEF)

A file containing 100-percent and sample characteristics for housing units and people in the long form sample. Processing for the SCEF includes merging the results of industry and occupation coding and place of work and migration coding, coding several other items, and weighting the long forms.

Sample Edited Detail File (SEDF)

A file containing 100-percent and sample characteristics for housing units and people in the long form sample. The file is used for tabulation purposes only and is not released to the public.

Sampling Error

Errors that occur because only a part of the population is being contacted directly. With any sample, differences are likely to exist between the characteristics of the sampled population and the larger group from which the sample was chosen. However, sampling error, unlike nonsampling error, is readily measured.

Sampling Stratum

A sampling stratum, as used in the A.C.E., is a grouping or classification that has a similar set of characteristics, based on the 1990 census. For example, one might define a stratum as all blocks in large central cities with a 1990 census population that was 30 percent or more Black renters.

Scanner

Equipment used to capture images from documents for the purpose of entering the information into an electronic format. For Census 2000, scanners replaced some keying operations.

Seasonal/Recreational/Occasional Use

A housing unit held for occupancy only during limited portions of the year, such as a beach cottage, ski cabin, or time-share condominium.

Separate Living Quarters

Those living quarters in which the occupants live separately from any other individual in the building and which have direct access from outside the building or through a common hall. For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible.

Service-Based Enumeration (SBE)

An operation designed to enumerate people at facilities where they might receive services, such as shelters, soup kitchens, healthcare facilities, and other selected locations. This operation targets the types of services that primarily serve people who have no usual residence.

Service Locations

Locations where clients are enumerated during the service-based enumeration operation, such as emergency or transitional shelters, soup kitchens, regularly scheduled mobile food vans, and targeted nonsheltered outdoor locations.

Short Form

The decennial census questionnaire, sent to approximately 5 of 6 households, that contains population questions related to household relationship, age, sex, relationship, race, Hispanic origin, and tenure (i.e., whether home is owned or rented). The questions contained on the short form also are asked, along with additional questions, on the long form.

Simplified Enumerator Questionnaire (SEQ)

A questionnaire that enumerators use for transient, or T-night, enumeration and when conducting the nonresponse follow-up after the decennial census.

Soup Kitchens

Includes soup kitchens, food lines, and programs distributing prepared breakfasts, lunches, or dinners. These programs may be organized as food service lines, bag or box lunches, or tables where people are seated, then served by program personnel. These programs may or may not have a place for clients to sit and eat the meal. These are service locations.

Special Place

An institution that includes facilities where people live or stay other than the usual house, apartment, or mobile home. Examples are colleges and universities, nursing homes, hospitals, and prisons. Often the facilities that house people are group quarters, but they may include standard houses or apartments as well.

Special Place Facility Questionnaire (SPFQ)

A questionnaire used to interview an official at a special place for the purpose of collecting/updating address information for the special place and any associated group quarters and housing units, determining the type of special place/group quarters, and collecting additional administrative information about each group quarters at the special place.

State Data Center (SDC)

A state agency or university facility identified by the governor of each state and state equivalent to participate in the Census Bureau's cooperative network for the dissemination of census data. SDCs also provide demographic data to local agencies participating in the Census Bureau's statistical areas programs and assist the Census Bureau in the delineation and identification of statistical areas.

Summary File (SF)

A series of census summary tabulations of 100-percent and sample population and housing data available for public use on CD-ROM and the Internet. In 1990, these files were available on computer tapes and, as a result, were known as summary tape files (STF).

Summary Table

A collection of one or more data elements that are classified into some logical structure either as dimensions or data points.

Tabulation Block

A physical block that does not have any legal or statistical boundaries passing through it; or each portion of a physical block after the Census Bureau recognizes any legal or statistical boundaries that pass through it.

Targeted Nonsheltered Outdoor Location (TNSOL)

A geographically identifiable outdoor location open to the elements where there is evidence that people might be living without paying and who also do not usually receive services at soup kitchens, shelters, and mobile food vans. These sites must have a specific location description that allows a census enumeration team to physically locate the site and excludes pay-for-use campgrounds, drop-in centers, post offices, hospital emergency rooms, and commercial sites (including all-night theaters and all-night diners).

Telephone Questionnaire Assistance (TQA)

A toll-free service that was provided by a commercial phone center to answer questions about Census 2000 and the Census 2000 questionnaire and to take interviews from people who prefer to be interviewed over the telephone.

Thematic Map

A map that reveals the geographic patterns in statistical data.

Title 13 (United States Code)

The law under which the Census Bureau operates and that guarantees the confidentiality of census information and establishes penalties for disclosing this information.

Topologically Integrated Geographic Encoding and Referencing (TIGER®)

A computer database that contains a digital representation of all census-required map features (streets, roads, rivers, railroads, lakes, and so forth), the related attributes for each (street names, address ranges, etc.), and the geographic identification codes for all entities used by the Census Bureau to tabulate data for the United States, Puerto Rico, and the Island Areas. The TIGER® database records the interrelationships among these features, attributes, and geographic codes and provides a resource for the production of maps, entity headers for data tabulations, and automated assignment of addresses to a geographic location in a process known as "geocoding."

Transient Night (T-Night)/T-Night Enumeration (TNE)

A method of enumeration in which Census Bureau staff enumerate people at transient locations, such as campgrounds at race tracks, recreational vehicle campgrounds or parks, commercial or public campgrounds, fairs and carnivals, and marinas. Enumerators conduct a personal interview using Simplified Enumerator Questionnaire. No vacant units are generated by this operation.

Type of Enumeration Area (TEA)

A classification identifying how the Census Bureau takes the decennial census of a geographic area. Examples of TEAs include (1) the area inside the "blue line" - this is the mailout/mailback and urban update/leave operations area, (2) address listing areas, (3) list/enumerate areas, and (4) remote areas of Alaska.

Urban Update/Leave (UU/L)

Update/leave procedures are used in targeted urban areas where mail delivery may be a problem, such as an apartment building where the mail carrier may leave the forms in a common area. Enumerators deliver census questionnaires for residents to complete and mail back, update the address register, and update the census maps.

Usual Home Elsewhere (UHE)

A housing unit that is temporarily occupied by a person(s) who has a usual home elsewhere.

Usual Residence

The living quarters where a person spends more nights during a year than any other place.

Voting District (VTD)

Any of a variety of areas, such as election districts, precincts, legislative districts, or wards, established by states and local governments for voting purposes.

Whole Household Usual Home Elsewhere (WHUHE)

See Usual Home Elsewhere.

Appendix D. Questionnaire

United States
Census 2000

U.S. Department of Commerce
Bureau of the Census

This is the official form for all the people at this address. It is quick and easy, and your answers are protected by law. Complete the Census and help your community get what it needs — today and in the future!

Start Here

Please use a black or blue pen.

1 **How many people were living or staying in this house, apartment, or mobile home on April 1, 2000?**

Number of people

INCLUDE in this number:

- foster children, roomers, or housemates
- people staying here on April 1, 2000 who have no other permanent place to stay
- people living here most of the time while working, even if they have another place to live

DO NOT INCLUDE in this number:

- college students living away while attending college
- people in a correctional facility, nursing home, or mental hospital on April 1, 2000
- Armed Forces personnel living somewhere else
- people who live or stay at another place most of the time

➔ **Please turn the page and print the names of all the people living or staying here on April 1, 2000.**

If you need help completing this form, *call 1–800–471–9424 between 8:00 a.m. and 9:00 p.m., 7 days a week. The telephone call is free.*

TDD – *Telephone display device for the hearing impaired. Call 1–800–582–8330 between 8:00 a.m. and 9:00 p.m., 7 days a week. The telephone call is free.*

¿NECESITA AYUDA? *Si usted necesita ayuda para completar este cuestionario llame al 1–800–471–8642 entre las 8:00 a.m. y las 9:00 p.m., 7 días a la semana. La llamada telefónica es gratis.*

The Census Bureau estimates that, for the average household, this form will take about 38 minutes to complete, including the time for reviewing the instructions and answers. Comments about the estimate should be directed to the Associate Director for Finance and Administration, Attn: Paperwork Reduction Project 0607-0856, Room 3104, Federal Building 3, Bureau of the Census, Washington, DC 20233.

Respondents are not required to respond to any information collection unless it displays a valid approval number from the Office of Management and Budget.

OMB No. 0607-0856: Approval Expires 12/31/2000

Form **D-2**

List of Persons

Please be sure you answered question 1 on the front page before continuing.

2 **Please print the names of all the people who you indicated in question 1 were living or staying here on April 1, 2000.**

Example — Last Name

JOHNSON

First Name MI

ROBIN J

Start with the person, or one of the people living here who owns, is buying, or rents this house, apartment, or mobile home. If there is no such person, start with any adult living or staying here.

Person 1 — Last Name

First Name MI

Person 2 — Last Name

First Name MI

Person 3 — Last Name

First Name MI

Person 4 — Last Name

First Name MI

Person 5 — Last Name

First Name MI

Person 6 — Last Name

First Name MI

Person 7 — Last Name

First Name MI

Person 8 — Last Name

First Name MI

Person 9 — Last Name

First Name MI

Person 10 — Last Name

First Name MI

Person 11 — Last Name

First Name MI

Person 12 — Last Name

First Name MI

Next, answer questions about Person 1.

FOR OFFICE USE ONLY

A. JIC1	B. JIC2	C. JIC3	D. JIC4

Form D-2

2

Person 1



Your answers are important! Every person in the Census counts.

1 What is this person's name? *Print the name of Person 1 from page 2.*

Last Name

First Name MI

2 What is this person's telephone number? *We may contact this person if we don't understand an answer.*

Area Code + Number

– –

3 What is this person's sex? *Mark (X) ONE box.*

- ☐ Male
- ☐ Female

4 What is this person's age and what is this person's date of birth?

Age on April 1, 2000

Print numbers in boxes.

Month Day Year of birth

➜ **NOTE: Please answer BOTH Questions 5 and 6.**

5 Is this person Spanish/Hispanic/Latino? *Mark (X) the* ***"No"*** *box if* ***not*** *Spanish/Hispanic/Latino.*

- ☐ **No**, not Spanish/Hispanic/Latino
- ☐ Yes, Mexican, Mexican Am., Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, other Spanish/Hispanic/Latino — *Print group.*

6 What is this person's race? ***Mark (X) one or more races*** *to indicate what this person considers himself/herself to be.*

- ☐ White
- ☐ Black, African Am., or Negro
- ☐ American Indian or Alaska Native — *Print name of enrolled or principal tribe.*
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian — *Print race.*
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander — *Print race.*
- ☐ Some other race — *Print race.*

7 What is this person's marital status?

- ☐ Now married
- ☐ Widowed
- ☐ Divorced
- ☐ Separated
- ☐ Never married

8 a. At any time since February 1, 2000, has this person attended regular school or college? *Include only nursery school or preschool, kindergarten, elementary school, and schooling which leads to a high school diploma or a college degree.*

- ☐ No, has not attended since February 1 → *Skip to 9*
- ☐ Yes, public school, public college
- ☐ Yes, private school, private college

2043

Form D-2

3

U.S. Census Bureau, Census 2000

Person 1 (continued)

8 **b. What grade or level was this person attending?** *Mark (X) ONE box.*

- ☐ Nursery school, preschool
- ☐ Kindergarten
- ☐ Grade 1 to grade 4
- ☐ Grade 5 to grade 8
- ☐ Grade 9 to grade 12
- ☐ College undergraduate years (freshman to senior)
- ☐ Graduate or professional school *(for example: medical, dental, or law school)*

9 **What is the highest degree or level of school this person has COMPLETED?** *Mark (X) ONE box. If currently enrolled, mark the previous grade or highest degree received.*

- ☐ No schooling completed
- ☐ Nursery school to 4th grade
- ☐ 5th grade or 6th grade
- ☐ 7th grade or 8th grade
- ☐ 9th grade
- ☐ 10th grade
- ☐ 11th grade
- ☐ 12th grade, **NO DIPLOMA**
- ☐ **HIGH SCHOOL GRADUATE —** high school DIPLOMA or the equivalent *(for example: GED)*
- ☐ Some college credit, but less than 1 year
- ☐ 1 or more years of college, no degree
- ☐ Associate degree *(for example: AA, AS)*
- ☐ Bachelor's degree *(for example: BA, AB, BS)*
- ☐ Master's degree *(for example: MA, MS, MEng, MEd, MSW, MBA)*
- ☐ Professional degree *(for example: MD, DDS, DVM, LLB, JD)*
- ☐ Doctorate degree *(for example: PhD, EdD)*

10 **What is this person's ancestry or ethnic origin?**

(For example: Italian, Jamaican, African Am., Cambodian, Cape Verdean, Norwegian, Dominican, French Canadian, Haitian, Korean, Lebanese, Polish, Nigerian, Mexican, Taiwanese, Ukrainian, and so on.)

11 **a. Does this person speak a language other than English at home?**

- ☐ Yes
- ☐ No → *Skip to 12*

b. What is this language?

(For example: Korean, Italian, Spanish, Vietnamese)

c. How well does this person speak English?

- ☐ Very well
- ☐ Well
- ☐ Not well
- ☐ Not at all

12 **Where was this person born?**

- ☐ In the United States — *Print name of state.*
- ☐ Outside the United States — *Print name of foreign country, or Puerto Rico, Guam, etc.*

13 **Is this person a CITIZEN of the United States?**

- ☐ Yes, born in the United States → *Skip to 15a*
- ☐ Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas
- ☐ Yes, born abroad of American parent or parents
- ☐ Yes, a U.S. citizen by naturalization
- ☐ No, not a citizen of the United States

14 **When did this person come to live in the United States?** *Print numbers in boxes.*

Year

15 **a. Did this person live in this house or apartment 5 years ago (on April 1, 1995)?**

- ☐ Person is under 5 years old → *Skip to 33*
- ☐ Yes, this house → *Skip to 16*
- ☐ No, outside the United States — *Print name of foreign country, or Puerto Rico, Guam, etc., below; then skip to 16.*
- ☐ No, different house in the United States

Person 1 (continued)

15 **b. Where did this person live 5 years ago?**

Name of city, town, or post office

Did this person live inside the limits of the city or town?

- ☐ Yes
- ☐ No, outside the city/town limits

Name of county

Name of state

ZIP Code

16 **Does this person have any of the following long-lasting conditions:**

	Yes	No
a. Blindness, deafness, or a severe vision or hearing impairment?	☐	☐
b. A condition that substantially limits one or more basic physical activities such as walking, climbing stairs, reaching, lifting, or carrying?	☐	☐

17 **Because of a physical, mental, or emotional condition lasting 6 months or more, does this person have any difficulty in doing any of the following activities:**

	Yes	No
a. Learning, remembering, or concentrating?	☐	☐
b. Dressing, bathing, or getting around inside the home?	☐	☐
c. (Answer if this person is 16 YEARS OLD OR OVER.) Going outside the home alone to shop or visit a doctor's office?	☐	☐
d. (Answer if this person is 16 YEARS OLD OR OVER.) Working at a job or business?	☐	☐

18 **Was this person under 15 years of age on April 1, 2000?**

- ☐ Yes → *Skip to 33*
- ☐ No

19 **a. Does this person have any of his/her own grandchildren under the age of 18 living in this house or apartment?**

- ☐ Yes
- ☐ No → *Skip to 20a*

b. Is this grandparent currently responsible for most of the basic needs of any grandchild(ren) under the age of 18 who live(s) in this house or apartment?

- ☐ Yes
- ☐ No → *Skip to 20a*

c. How long has this grandparent been responsible for the(se) grandchild(ren)? *If the grandparent is financially responsible for more than one grandchild, answer the question for the grandchild for whom the grandparent has been responsible for the longest period of time.*

- ☐ Less than 6 months
- ☐ 6 to 11 months
- ☐ 1 or 2 years
- ☐ 3 or 4 years
- ☐ 5 years or more

20 **a. Has this person ever served on active duty in the U.S. Armed Forces, military Reserves, or National Guard?** *Active duty does not include training for the Reserves or National Guard, but DOES include activation, for example, for the Persian Gulf War.*

- ☐ Yes, now on active duty
- ☐ Yes, on active duty in past, but not now
- ☐ No, training for Reserves or National Guard only → *Skip to 21*
- ☐ No, never served in the military → *Skip to 21*

b. When did this person serve on active duty in the U.S. Armed Forces? *Mark* ☒ *a box for EACH period in which this person served.*

- ☐ April 1995 or later
- ☐ August 1990 to March 1995 (including Persian Gulf War)
- ☐ September 1980 to July 1990
- ☐ May 1975 to August 1980
- ☐ Vietnam era (August 1964—April 1975)
- ☐ February 1955 to July 1964
- ☐ Korean conflict (June 1950—January 1955)
- ☐ World War II (September 1940—July 1947)
- ☐ Some other time

c. In total, how many years of active-duty military service has this person had?

- ☐ Less than 2 years
- ☐ 2 years or more

Person 1 (continued)

21 **LAST WEEK, did this person do ANY work for either pay or profit?** *Mark (X) the "Yes" box even if the person worked only 1 hour, or helped without pay in a family business or farm for 15 hours or more, or was on active duty in the Armed Forces.*

- ☐ Yes
- ☐ No → *Skip to 25a*

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 name)

(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

c. Is the work location inside the limits of that city or town?

- ☐ Yes
- ☐ No, outside the city/town limits

d. Name of county

e. Name of U.S. state or foreign country

f. ZIP Code

23 **a. How did this person usually get to work LAST WEEK?** *If this person usually used more than one method of transportation during the trip, mark (X) the box of the one used for most of the distance.*

- ☐ Car, truck, or van
- ☐ Bus or trolley bus
- ☐ Streetcar or trolley car
- ☐ Subway or elevated
- ☐ Railroad
- ☐ Ferryboat
- ☐ Taxicab
- ☐ Motorcycle
- ☐ Bicycle
- ☐ Walked
- ☐ Worked at home → *Skip to 27*
- ☐ Other method

➜ **If "Car, truck, or van" is marked in 23a, go to 23b. Otherwise, skip to 24a.**

23 **b. How many people, including this person, usually rode to work in the car, truck, or van LAST WEEK?**

- ☐ Drove alone
- ☐ 2 people
- ☐ 3 people
- ☐ 4 people
- ☐ 5 or 6 people
- ☐ 7 or more people

24 **a. What time did this person usually leave home to go to work LAST WEEK?**

| : | ☐ a.m. ☐ p.m.

b. How many minutes did it usually take this person to get from home to work LAST WEEK?

Minutes

➜ **Answer questions 25–26 for persons who did not work for pay or profit last week. Others skip to 27.**

25 **a. LAST WEEK, was this person on layoff from a job?**

- ☐ Yes → *Skip to 25c*
- ☐ No

b. LAST WEEK, was this person TEMPORARILY absent from a job or business?

- ☐ Yes, on vacation, temporary illness, labor dispute, etc. → *Skip to 26*
- ☐ No → *Skip to 25d*

c. Has this person been informed that he or she will be recalled to work within the next 6 months OR been given a date to return to work?

- ☐ Yes → *Skip to 25e*
- ☐ No

d. Has this person been looking for work during the last 4 weeks?

- ☐ Yes
- ☐ No → *Skip to 26*

e. LAST WEEK, could this person have started a job if offered one, or returned to work if recalled?

- ☐ Yes, could have gone to work
- ☐ No, because of own temporary illness
- ☐ No, because of all other reasons *(in school, etc.)*

26 **When did this person last work, even for a few days?**

- ☐ 1995 to 2000
- ☐ 1994 or earlier, or never worked → *Skip to 31*

Person 1 (continued)

27 **Industry or Employer —** *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 the information for his/her last job or business since 1995.*

a. For whom did this person work? *If now on active duty in the Armed Forces, mark (X) this box →* ☐ *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, mail order house, auto repair shop, bank)*

c. Is this mainly — *Mark (X) ONE box.*

- ☐ Manufacturing?
- ☐ Wholesale trade?
- ☐ Retail trade?
- ☐ Other *(agriculture, construction, service, government, etc.)*?

28 **Occupation**

a. What kind of work was this person doing? *(For example: registered nurse, personnel manager, supervisor of order department, auto mechanic, accountant)*

b. What were this person's most important activities or duties? *(For example: patient care, directing hiring policies, supervising order clerks, repairing automobiles, reconciling financial records)*

29 **Was this person —** *Mark (X) ONE box.*

- ☐ 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, tax-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

30 **a. LAST YEAR, 1999, did this person work at a job or business at any time?**

- ☐ Yes
- ☐ No → *Skip to 31*

b. How many weeks did this person work in 1999? *Count paid vacation, paid sick leave, and military service.*

Weeks

c. During the weeks WORKED in 1999, how many hours did this person usually work each WEEK?

Usual hours worked each WEEK

31 **INCOME IN 1999 —** *Mark (X) the "Yes" box for each income source received during 1999 and enter the total amount received during 1999 to a maximum of $999,999. Mark (X) the "No" box if the income source was not received. If net income was a loss, enter the amount and mark (X) the "Loss" box next to the dollar amount.*

For income received jointly, report, if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and mark (X) the "No" box for the other person. If exact amount is not known, please give best estimate.

a. Wages, salary, commissions, bonuses, or tips from all jobs — *Report amount before deductions for taxes, bonds, dues, or other items.*

☐ Yes Annual amount — *Dollars*

$, .00

☐ No

b. Self-employment income from own nonfarm businesses or farm businesses, including proprietorships and partnerships — *Report NET income after business expenses.*

☐ Yes Annual amount — *Dollars*

$, .00 ☐ Loss

☐ No

Person 1 (continued)

31 **c. Interest, dividends, net rental income, royalty income, or income from estates and trusts —** *Report even small amounts credited to an account.*

☐ Yes Annual amount — *Dollars*

$ | | | , | | | .00 ☐ Loss

☐ No

d. Social Security or Railroad Retirement

☐ Yes Annual amount — *Dollars*

$ | | , | | | .00

☐ No

e. Supplemental Security Income (SSI)

☐ Yes Annual amount — *Dollars*

$ | | , | | | .00

☐ No

f. Any public assistance or welfare payments from the state or local welfare office

☐ Yes Annual amount — *Dollars*

$ | | , | | | .00

☐ No

g. Retirement, survivor, or disability pensions — *Do NOT include Social Security.*

☐ Yes Annual amount — *Dollars*

$ | | | , | | | .00

☐ No

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 sale of a home.*

☐ Yes Annual amount — *Dollars*

$ | | | , | | | .00

☐ No

32 **What was this person's total income in 1999?** *Add entries in questions 31a—31h; subtract any losses. If net income was a loss, enter the amount and mark* (X) *the "Loss" box next to the dollar amount.*

Annual amount — *Dollars*

☐ None OR $ | | | , | | | .00 ☐ Loss

➜ **Now, please answer questions 33—53 about your household.**

33 **Is this house, apartment, or mobile home —**

- ☐ Owned by you or someone in this household with a mortgage or loan?
- ☐ Owned by you or someone in this household free and clear (without a mortgage or loan)?
- ☐ Rented for cash rent?
- ☐ Occupied without payment of cash rent?

34 **Which best describes this building?** *Include all apartments, flats, etc., even if vacant.*

- ☐ A mobile home
- ☐ A one-family house detached from any other house
- ☐ A one-family house attached to one or more houses
- ☐ A building with 2 apartments
- ☐ A building with 3 or 4 apartments
- ☐ A building with 5 to 9 apartments
- ☐ A building with 10 to 19 apartments
- ☐ A building with 20 to 49 apartments
- ☐ A building with 50 or more apartments
- ☐ Boat, RV, van, etc.

35 **About when was this building first built?**

- ☐ 1999 or 2000
- ☐ 1995 to 1998
- ☐ 1990 to 1994
- ☐ 1980 to 1989
- ☐ 1970 to 1979
- ☐ 1960 to 1969
- ☐ 1950 to 1959
- ☐ 1940 to 1949
- ☐ 1939 or earlier

36 **When did this person move into this house, apartment, or mobile home?**

- ☐ 1999 or 2000
- ☐ 1995 to 1998
- ☐ 1990 to 1994
- ☐ 1980 to 1989
- ☐ 1970 to 1979
- ☐ 1969 or earlier

37 **How many rooms do you have in this house, apartment, or mobile home?** *Do NOT count bathrooms, porches, balconies, foyers, halls, or half-rooms.*

- ☐ 1 room
- ☐ 2 rooms
- ☐ 3 rooms
- ☐ 4 rooms
- ☐ 5 rooms
- ☐ 6 rooms
- ☐ 7 rooms
- ☐ 8 rooms
- ☐ 9 or more rooms

38 **How many bedrooms do you have; that is, how many bedrooms would you list if this house, apartment, or mobile home were on the market for sale or rent?**

- ☐ No bedroom
- ☐ 1 bedroom
- ☐ 2 bedrooms
- ☐ 3 bedrooms
- ☐ 4 bedrooms
- ☐ 5 or more bedrooms

39 **Do you have COMPLETE plumbing facilities in this house, apartment, or mobile home; that is, 1) hot and cold piped water, 2) a flush toilet, and 3) a bathtub or shower?**

- ☐ Yes, have all three facilities
- ☐ No

40 **Do you have COMPLETE kitchen facilities in this house, apartment, or mobile home; that is, 1) a sink with piped water, 2) a range or stove, and 3) a refrigerator?**

- ☐ Yes, have all three facilities
- ☐ No

41 **Is there telephone service available in this house, apartment, or mobile home from which you can both make and receive calls?**

- ☐ Yes
- ☐ No

42 **Which FUEL is used MOST for heating this house, apartment, or mobile home?**

- ☐ Gas: from underground pipes serving the neighborhood
- ☐ Gas: bottled, tank, or LP
- ☐ Electricity
- ☐ Fuel oil, kerosene, etc.
- ☐ Coal or coke
- ☐ Wood
- ☐ Solar energy
- ☐ Other fuel
- ☐ No fuel used

43 **How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of your household?**

- ☐ None
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ 6 or more

44 **Answer ONLY if this is a ONE-FAMILY HOUSE OR MOBILE HOME — All others skip to 45.**

a. Is there a business (such as a store or barber shop) or a medical office on this property?

- ☐ Yes
- ☐ No

b. How many acres is this house or mobile home on?

- ☐ Less than 1 acre → *Skip to 45*
- ☐ 1 to 9.9 acres
- ☐ 10 or more acres

c. In 1999, what were the actual sales of all agricultural products from this property?

- ☐ None
- ☐ $1 to $999
- ☐ $1,000 to $2,499
- ☐ $2,500 to $4,999
- ☐ $5,000 to $9,999
- ☐ $10,000 or more

45 **What are the annual costs of utilities and fuels for this house, apartment, or mobile home?** *If you have lived here less than 1 year, estimate the annual cost.*

a. Electricity

Annual cost — *Dollars*

$, .00

OR

- ☐ Included in rent or in condominium fee
- ☐ No charge or electricity not used

b. Gas

Annual cost — *Dollars*

$, .00

OR

- ☐ Included in rent or in condominium fee
- ☐ No charge or gas not used

c. Water and sewer

Annual cost — *Dollars*

$, .00

OR

- ☐ Included in rent or in condominium fee
- ☐ No charge

d. Oil, coal, kerosene, wood, etc.

Annual cost — *Dollars*

$, .00

OR

- ☐ Included in rent or in condominium fee
- ☐ No charge or these fuels not used

Person 1 (continued)

46 **Answer ONLY if you PAY RENT for this house, apartment, or mobile home — All others skip to 47.**

a. What is the monthly rent?

Monthly amount — *Dollars*

$ | | , | | | .00

b. Does the monthly rent include any meals?

- ☐ Yes
- ☐ No

47 **Answer questions 47a—53 if you or someone in this household owns or is buying this house, apartment, or mobile home; otherwise, skip to questions for Person 2.**

a. 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
- ☐ Yes, contract to purchase
- ☐ No → *Skip to 48a*

b. How much is your regular monthly mortgage payment on THIS property? *Include payment only on first mortgage or contract to purchase.*

Monthly amount — *Dollars*

$ | | , | | | .00

OR

- ☐ No regular payment required → *Skip to 48a*

c. Does your regular monthly mortgage payment include payments for real estate taxes on THIS property?

- ☐ Yes, taxes included in mortgage 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 mortgage payment
- ☐ No, insurance paid separately or no insurance

48 **a. Do you have a second mortgage or a home equity loan on THIS property?** *Mark ☒ all boxes that apply.*

- ☐ Yes, a second mortgage
- ☐ Yes, a home equity loan
- ☐ No → *Skip to 49*

b. How much is your regular monthly payment on all second or junior mortgages and all home equity loans on THIS property?

Monthly amount — *Dollars*

$ | | , | | | .00

OR

- ☐ No regular payment required

49 **What were the real estate taxes on THIS property last year?**

Yearly amount — *Dollars*

$ | | , | | | .00

OR

- ☐ None

50 **What was the annual payment for fire, hazard, and flood insurance on THIS property?**

Annual amount — *Dollars*

$ | | , | | | .00

OR

- ☐ None

51 **What is the value of this property; that is, how much do you think this house and lot, apartment, or mobile home and lot would sell for if it were for sale?**

- ☐ Less than $10,000
- ☐ $10,000 to $14,999
- ☐ $15,000 to $19,999
- ☐ $20,000 to $24,999
- ☐ $25,000 to $29,999
- ☐ $30,000 to $34,999
- ☐ $35,000 to $39,999
- ☐ $40,000 to $49,999
- ☐ $50,000 to $59,999
- ☐ $60,000 to $69,999
- ☐ $70,000 to $79,999
- ☐ $80,000 to $89,999
- ☐ $90,000 to $99,999
- ☐ $100,000 to $124,999
- ☐ $125,000 to $149,999
- ☐ $150,000 to $174,999
- ☐ $175,000 to $199,999
- ☐ $200,000 to $249,999
- ☐ $250,000 to $299,999
- ☐ $300,000 to $399,999
- ☐ $400,000 to $499,999
- ☐ $500,000 to $749,999
- ☐ $750,000 to $999,999
- ☐ $1,000,000 or more

52 **Answer ONLY if this is a CONDOMINIUM —**

What is the monthly condominium fee?

Monthly amount — *Dollars*

$ | | , | | | .00

53 **Answer ONLY if this is a MOBILE HOME —**

a. Do you have an installment loan or contract on THIS mobile home?

- ☐ Yes
- ☐ No

b. What was the total cost for installment loan payments, personal property taxes, site rent, registration fees, and license fees on THIS mobile home and its site last year? *Exclude real estate taxes.*

Yearly amount — *Dollars*

$ | | , | | | .00

➔ **Are there more people living here? If yes, continue with Person 2.**

Person 2



Census information helps your community get financial assistance for roads, hospitals, schools and more.

1 What is this person's name? *Print the name of Person 2 from page 2.*

Last Name

First Name MI

2 How is this person related to Person 1? *Mark (X) ONE box.*

- ☐ Husband/wife
- ☐ Natural-born son/daughter
- ☐ Adopted son/daughter
- ☐ Stepson/stepdaughter
- ☐ Brother/sister
- ☐ Father/mother
- ☐ Grandchild
- ☐ Parent-in-law
- ☐ Son-in-law/daughter-in-law
- ☐ Other relative — *Print exact relationship.*

If NOT RELATED to Person 1:

- ☐ Roomer, boarder
- ☐ Housemate, roommate
- ☐ Unmarried partner
- ☐ Foster child
- ☐ Other nonrelative

3 What is this person's sex? *Mark (X) ONE box.*

- ☐ Male
- ☐ Female

4 What is this person's age and what is this person's date of birth?

Age on April 1, 2000

Print numbers in boxes.

Month Day Year of birth

NOTE: Please answer BOTH Questions 5 and 6.

5 Is this person Spanish/Hispanic/Latino? *Mark (X) the* ***"No"*** *box if* ***not*** Spanish/Hispanic/Latino.

- ☐ **No**, not Spanish/Hispanic/Latino
- ☐ Yes, Mexican, Mexican Am., Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, other Spanish/Hispanic/Latino — *Print group.*

6 What is this person's race? ***Mark (X) one or more races*** *to indicate what this person considers himself/herself to be.*

- ☐ White
- ☐ Black, African Am., or Negro
- ☐ American Indian or Alaska Native — *Print name of enrolled or principal tribe.*

- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian — *Print race.*
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander — *Print race.*

- ☐ Some other race — *Print race.*

7 What is this person's marital status?

- ☐ Now married
- ☐ Widowed
- ☐ Divorced
- ☐ Separated
- ☐ Never married

2051

Form D-2

11

U.S. Census Bureau, Census 2000

Person 2 (continued)

8 **a. At any time since February 1, 2000, has this person attended regular school or college?** *Include only nursery school or preschool, kindergarten, elementary school, and schooling which leads to a high school diploma or a college degree.*

- ☐ No, has not attended since February 1 → *Skip to 9*
- ☐ Yes, public school, public college
- ☐ Yes, private school, private college

b. What grade or level was this person attending? *Mark (X) ONE box.*

- ☐ Nursery school, preschool
- ☐ Kindergarten
- ☐ Grade 1 to grade 4
- ☐ Grade 5 to grade 8
- ☐ Grade 9 to grade 12
- ☐ College undergraduate years (freshman to senior)
- ☐ Graduate or professional school *(for example: medical, dental, or law school)*

9 **What is the highest degree or level of school this person has COMPLETED?** *Mark (X) ONE box. If currently enrolled, mark the previous grade or highest degree received.*

- ☐ No schooling completed
- ☐ Nursery school to 4th grade
- ☐ 5th grade or 6th grade
- ☐ 7th grade or 8th grade
- ☐ 9th grade
- ☐ 10th grade
- ☐ 11th grade
- ☐ 12th grade, **NO DIPLOMA**
- ☐ **HIGH SCHOOL GRADUATE —** high school DIPLOMA or the equivalent *(for example: GED)*
- ☐ Some college credit, but less than 1 year
- ☐ 1 or more years of college, no degree
- ☐ Associate degree *(for example: AA, AS)*
- ☐ Bachelor's degree *(for example: BA, AB, BS)*
- ☐ Master's degree *(for example: MA, MS, MEng, MEd, MSW, MBA)*
- ☐ Professional degree *(for example: MD, DDS, DVM, LLB, JD)*
- ☐ Doctorate degree *(for example: PhD, EdD)*

10 **What is this person's ancestry or ethnic origin?**

(For example: Italian, Jamaican, African Am., Cambodian, Cape Verdean, Norwegian, Dominican, French Canadian, Haitian, Korean, Lebanese, Polish, Nigerian, Mexican, Taiwanese, Ukrainian, and so on.)

11 **a. Does this person speak a language other than English at home?**

- ☐ Yes
- ☐ No → *Skip to 12*

b. What is this language?

(For example: Korean, Italian, Spanish, Vietnamese)

c. How well does this person speak English?

- ☐ Very well
- ☐ Well
- ☐ Not well
- ☐ Not at all

12 **Where was this person born?**

- ☐ In the United States — *Print name of state.*
- ☐ Outside the United States — *Print name of foreign country, or Puerto Rico, Guam, etc.*

13 **Is this person a CITIZEN of the United States?**

- ☐ Yes, born in the United States → *Skip to 15a*
- ☐ Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas
- ☐ Yes, born abroad of American parent or parents
- ☐ Yes, a U.S. citizen by naturalization
- ☐ No, not a citizen of the United States

14 **When did this person come to live in the United States?** *Print numbers in boxes.*

Year

15 **a. Did this person live in this house or apartment 5 years ago (on April 1, 1995)?**

- ☐ Person is under 5 years old → *Skip to 33*
- ☐ Yes, this house → *Skip to 16*
- ☐ No, outside the United States — *Print name of foreign country, or Puerto Rico, Guam, etc., below; then skip to 16.*
- ☐ No, different house in the United States

Person 2 (continued)

15 **b. Where did this person live 5 years ago?**

Name of city, town, or post office

Did this person live inside the limits of the city or town?

- ☐ Yes
- ☐ No, outside the city/town limits

Name of county

Name of state

ZIP Code

16 **Does this person have any of the following long-lasting conditions:**

	Yes	No
a. Blindness, deafness, or a severe vision or hearing impairment?	☐	☐
b. A condition that substantially limits one or more basic physical activities such as walking, climbing stairs, reaching, lifting, or carrying?	☐	☐

17 **Because of a physical, mental, or emotional condition lasting 6 months or more, does this person have any difficulty in doing any of the following activities:**

	Yes	No
a. Learning, remembering, or concentrating?	☐	☐
b. Dressing, bathing, or getting around inside the home?	☐	☐
c. (Answer if this person is 16 YEARS OLD OR OVER.) Going outside the home alone to shop or visit a doctor's office?	☐	☐
d. (Answer if this person is 16 YEARS OLD OR OVER.) Working at a job or business?	☐	☐

18 **Was this person under 15 years of age on April 1, 2000?**

- ☐ Yes → *Skip to 33*
- ☐ No

19 **a. Does this person have any of his/her own grandchildren under the age of 18 living in this house or apartment?**

- ☐ Yes
- ☐ No → *Skip to 20a*

b. Is this grandparent currently responsible for most of the basic needs of any grandchild(ren) under the age of 18 who live(s) in this house or apartment?

- ☐ Yes
- ☐ No → *Skip to 20a*

c. How long has this grandparent been responsible for the(se) grandchild(ren)? *If the grandparent is financially responsible for more than one grandchild, answer the question for the grandchild for whom the grandparent has been responsible for the longest period of time.*

- ☐ Less than 6 months
- ☐ 6 to 11 months
- ☐ 1 or 2 years
- ☐ 3 or 4 years
- ☐ 5 years or more

20 **a. Has this person ever served on active duty in the U.S. Armed Forces, military Reserves, or National Guard?** *Active duty does not include training for the Reserves or National Guard, but DOES include activation, for example, for the Persian Gulf War.*

- ☐ Yes, now on active duty
- ☐ Yes, on active duty in past, but not now
- ☐ No, training for Reserves or National Guard only → *Skip to 21*
- ☐ No, never served in the military → *Skip to 21*

b. When did this person serve on active duty in the U.S. Armed Forces? *Mark* ☒ *a box for EACH period in which this person served.*

- ☐ April 1995 or later
- ☐ August 1990 to March 1995 (including Persian Gulf War)
- ☐ September 1980 to July 1990
- ☐ May 1975 to August 1980
- ☐ Vietnam era (August 1964—April 1975)
- ☐ February 1955 to July 1964
- ☐ Korean conflict (June 1950—January 1955)
- ☐ World War II (September 1940—July 1947)
- ☐ Some other time

c. In total, how many years of active-duty military service has this person had?

- ☐ Less than 2 years
- ☐ 2 years or more

Person 2 (continued)

21 **LAST WEEK, did this person do ANY work for either pay or profit?** *Mark (X) the "Yes" box even if the person worked only 1 hour, or helped without pay in a family business or farm for 15 hours or more, or was on active duty in the Armed Forces.*

- ☐ Yes
- ☐ No → *Skip to 25a*

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 name)

(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

c. Is the work location inside the limits of that city or town?

- ☐ Yes
- ☐ No, outside the city/town limits

d. Name of county

e. Name of U.S. state or foreign country

f. ZIP Code

23 **a. How did this person usually get to work LAST WEEK?** *If this person usually used more than one method of transportation during the trip, mark (X) the box of the one used for most of the distance.*

- ☐ Car, truck, or van
- ☐ Bus or trolley bus
- ☐ Streetcar or trolley car
- ☐ Subway or elevated
- ☐ Railroad
- ☐ Ferryboat
- ☐ Taxicab
- ☐ Motorcycle
- ☐ Bicycle
- ☐ Walked
- ☐ Worked at home → *Skip to 27*
- ☐ Other method

➜ **If "Car, truck, or van" is marked in 23a, go to 23b. Otherwise, skip to 24a.**

23 **b. How many people, including this person, usually rode to work in the car, truck, or van LAST WEEK?**

- ☐ Drove alone
- ☐ 2 people
- ☐ 3 people
- ☐ 4 people
- ☐ 5 or 6 people
- ☐ 7 or more people

24 **a. What time did this person usually leave home to go to work LAST WEEK?**

| : | ☐ a.m. ☐ p.m.

b. How many minutes did it usually take this person to get from home to work LAST WEEK?

Minutes

➜ **Answer questions 25–26 for persons who did not work for pay or profit last week. Others skip to 27.**

25 **a. LAST WEEK, was this person on layoff from a job?**

- ☐ Yes → *Skip to 25c*
- ☐ No

b. LAST WEEK, was this person TEMPORARILY absent from a job or business?

- ☐ Yes, on vacation, temporary illness, labor dispute, etc. → *Skip to 26*
- ☐ No → *Skip to 25d*

c. Has this person been informed that he or she will be recalled to work within the next 6 months OR been given a date to return to work?

- ☐ Yes → *Skip to 25e*
- ☐ No

d. Has this person been looking for work during the last 4 weeks?

- ☐ Yes
- ☐ No → *Skip to 26*

e. LAST WEEK, could this person have started a job if offered one, or returned to work if recalled?

- ☐ Yes, could have gone to work
- ☐ No, because of own temporary illness
- ☐ No, because of all other reasons *(in school, etc.)*

26 **When did this person last work, even for a few days?**

- ☐ 1995 to 2000
- ☐ 1994 or earlier, or never worked → *Skip to 31*

Person 2 (continued)

27 **Industry or Employer —** *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 the information for his/her last job or business since 1995.*

a. For whom did this person work? *If now on active duty in the Armed Forces, mark (X) this box →* ☐ *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, mail order house, auto repair shop, bank)*

c. Is this mainly — *Mark (X) ONE box.*

- ☐ Manufacturing?
- ☐ Wholesale trade?
- ☐ Retail trade?
- ☐ Other *(agriculture, construction, service, government, etc.)*?

28 **Occupation**

a. What kind of work was this person doing? *(For example: registered nurse, personnel manager, supervisor of order department, auto mechanic, accountant)*

b. What were this person's most important activities or duties? *(For example: patient care, directing hiring policies, supervising order clerks, repairing automobiles, reconciling financial records)*

29 **Was this person —** *Mark (X) ONE box.*

- ☐ 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, tax-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

30 **a. LAST YEAR, 1999, did this person work at a job or business at any time?**

- ☐ Yes
- ☐ No → *Skip to 31*

b. How many weeks did this person work in 1999? *Count paid vacation, paid sick leave, and military service.*

Weeks

c. During the weeks WORKED in 1999, how many hours did this person usually work each WEEK?

Usual hours worked each WEEK

31 **INCOME IN 1999 —** *Mark (X) the "Yes" box for each income source received during 1999 and enter the total amount received during 1999 to a maximum of $999,999. Mark (X) the "No" box if the income source was not received. If net income was a loss, enter the amount and mark (X) the "Loss" box next to the dollar amount.*

For income received jointly, report, if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and mark (X) the "No" box for the other person. If exact amount is not known, please give best estimate.

a. Wages, salary, commissions, bonuses, or tips from all jobs — *Report amount before deductions for taxes, bonds, dues, or other items.*

☐ Yes Annual amount — *Dollars*

$, .00

☐ No

b. Self-employment income from own nonfarm businesses or farm businesses, including proprietorships and partnerships — *Report NET income after business expenses.*

☐ Yes Annual amount — *Dollars*

$, .00 ☐ Loss

☐ No

Person 2 (continued)

31 **c. Interest, dividends, net rental income, royalty income, or income from estates and trusts —** *Report even small amounts credited to an account.*

☐ Yes Annual amount — *Dollars*

$ | | | , | | | .00 ☐ Loss

☐ No

d. Social Security or Railroad Retirement

☐ Yes Annual amount — *Dollars*

$ | | , | | | .00

☐ No

e. Supplemental Security Income (SSI)

☐ Yes Annual amount — *Dollars*

$ | | , | | | .00

☐ No

f. Any public assistance or welfare payments from the state or local welfare office

☐ Yes Annual amount — *Dollars*

$ | | , | | | .00

☐ No

g. Retirement, survivor, or disability pensions — *Do NOT include Social Security.*

☐ Yes Annual amount — *Dollars*

$ | | | , | | | .00

☐ No

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 sale of a home.*

☐ Yes Annual amount — *Dollars*

$ | | | , | | | .00

☐ No

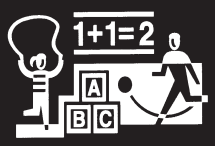
32 **What was this person's total income in 1999?** *Add entries in questions 31a—31h; subtract any losses. If net income was a loss, enter the amount and mark (X) the "Loss" box next to the dollar amount.*

Annual amount — *Dollars*

☐ None OR $ | | | , | | | .00 ☐ Loss

33 **Are there more people living here? If yes, continue with Person 3.**

Person 3



Information about children helps your community plan for child care, education, and recreation.

1 **What is this person's name?** *Print the name of Person 3 from page 2.*

Last Name

| | | | | | | | | | | | | | | |

First Name MI

| | | | | | | | | | | | | |

2 **How is this person related to Person 1?** *Mark (X) ONE box.*

☐ Husband/wife
☐ Natural-born son/daughter
☐ Adopted son/daughter
☐ Stepson/stepdaughter
☐ Brother/sister
☐ Father/mother
☐ Grandchild
☐ Parent-in-law
☐ Son-in-law/daughter-in-law
☐ Other relative — *Print exact relationship.*

| | | | | | | | | | | |

If NOT RELATED to Person 1:

☐ Roomer, boarder
☐ Housemate, roommate
☐ Unmarried partner
☐ Foster child
☐ Other nonrelative

3 **What is this person's sex?** *Mark (X) ONE box.*

☐ Male
☐ Female

4 **What is this person's age and what is this person's date of birth?**

Age on April 1, 2000

| | |

Print numbers in boxes.

Month | Day | Year of birth

| | | | | | |

Form D-2

16

Appendix E.
Data Products and User Assistance

Page

Census 2000 Data Products E–1
Census 2000 Maps and Geographic Products E–3
Reference Materials E–4
Sources of Assistance E–4

CENSUS 2000 DATA PRODUCTS

The decennial census yields a wealth of data, which have virtually unlimited applications. A comprehensive data program offers census information on the Internet, in electronic media (CD-ROM/DVD), and in print. A complete list of Census 2000 data products, with their release status, is available at http://www.census.gov/population/www/censusdata/c2kproducts.html.

Detailed results of Census 2000 are contained in a series of five files called summary files. These can be accessed through the Internet and on CD-ROM or DVD. In addition, three series of reports derived from these files are available in print and in Portable Document Format (PDF) on the Internet.

Internet and CD-ROM/DVD Products

Census 2000 data are available at several locations on the Census Burau's Web site. The Census 2000 Gateway page provides links to Census 2000 data, information, and reference materials. It is accessed from the Census Bureau's home page (www.census.gov) or at http://www.census.gov/main/www/cen2000.html. Links from the Gateway page include American FactFinder®; State and County QuickFacts; other prepared Census 2000 tables, including rankings and comparisons; reference materials; user updates; and Census in the Schools.

American Factfinder (factfinder.census.gov) is the most comprehensive source of Census 2000 data, providing all summary file tables for all levels of census geography. Quick tables (single geography tables) and geographic comparison tables (data for more than one geographic area) are also available on American FactFinder

Most Census 2000 tabulations are also available on CD-ROM and/or DVD. Viewing software is included on the DVDs and most CDs. These may be ordered by phone through the Census Bureau's Customer Services Center on 301-763-4636, or via e-commerce by selecting Catalog from the Census Bureau's home page. For more information on the products and ordering options, access the Census Catalog's product order form at https://catalog.mso.census.gov .

Census 2000 Redistricting Data (Public Law 94-171) Summary File. The first Census 2000 data files released are the information required for local redistricting. The data include tabulations of 63 race categories, cross-tabulated by Hispanic or Latino and not Hispanic or Latino for the total population and the population 18 years old and over. These tabulations are presented for areas as small as blocks, census tracts, and voting districts. They are available through the Internet (American FactFinder) and as a CD-ROM series (state files). In American FactFinder (factfinder.census.gov), all redistricting data tables are available by selecting Data Sets on the FactFinder main page. FactFinder also has one quick table and one geographic comparison table based on this file.

Summary File 1 (SF 1). This file presents counts and basic cross-tabulations of information collected from all people and housing units. This information includes age, sex, race, Hispanic or Latino origin, household relationship, and whether the residence is owned or rented. Data are available down to the block level for many tabulations, but only to the census-tract level for others. Summaries are included for other geographic areas, such as ZIP Code® Tabulation Areas

(ZCTAs™) and Congressional Districts (106th Congress). There are individual state files and two national files in this series. The final national file provides the first available urban and rural data. The complete Summary File 1 is available on the Internet (American FactFinder) and on CD-ROM/DVD.

Additional tables derived from this summary file are also available on the Census Bureau's Internet site. These can be located through the Census 2000 Gateway page at http://www.census.gov/main/www/cen2000.html. Related products include a demographic profile that provides a snapshot of the geographic area, quick tables, geographic comparison tables, and two printed report series, Summary Population and Housing Characteristics (PHC-1) and Population and Housing Unit Counts (PHC-3).

Summary File 2 (SF 2). This file presents data similar to the information included in Summary File 1, but the tables in this file are iterated for a selected list of race and Hispanic or Latino categories and for American Indian and Alaska Native tribes. These data are shown down to the census tract level for up to 250 race and ethnic categories that meet a specified minimum population size threshold of 100 in a geographic area. The complete SF 2 is available on the Internet (American FactFinder) and on CD-ROM/DVD. American FactFinder also offers various quick tables and geographic comparison tables derived from SF 2.

Summary File 3 (SF 3). This file is the first release of the information collected on a sample basis. It includes data on income, educational attainment, poverty status, home value, and population totals for foreign born and ancestry groups. Data are provided down to the block group level for many tabulations but only down to the census tract for others. SF 3 also includes data by ZCTAs and Congressional Districts (106th Congress).

Data for each state and a national file are available on the American Factfinder and on CD-ROM/DVD. Related products include a three-page demographic profile available on the Internet, various quick tables and geographic comparison tables available through American Factfinder, and a printed report series, Summary Social, Economic, and Housing Characteristics (PHC-2).

Summary File 4 (SF 4). This file includes tabulations of the population and housing data collected from a sample of the population. Just as in Summary File 2, the tables in SF 4 are iterated for a selected list of race and Hispanic or Latino origin groups and for American Indian and Alaska Native tribes. Tables are also iterated for 86 ancestry groups. SF 4 is available on the Internet (American FactFinder) and on CD-ROM/DVD. American FactFinder also offers various quick tables and geographic comparison tables derived from Summary File 4.

Microdata. Microdata products allow users to prepare their own customized tabulations and cross tabulations of most population and housing subjects, using specially prepared microdata files. These files are the actual responses to census questionnaires, but with names or addresses removed and the geography sufficiently broad to protect confidentiality. Microdata are available on CD-ROM/DVD and may be available for query via the Internet.

Public Use Microdata Sample (PUMS) Files. There are two PUMS files: a 1-percent sample for developing tabulations for metropolitan areas and a 5-percent sample that provides tabulations for state and substate areas. Both files are available on CD-ROM/DVD.

Advanced Query Function. Tabulations can be prepared online using the full database of individual responses, subject to restrictions and filters required to protect the confidentiality of individual responses. The Internet availability of this function is subject to policy decisions on access and confidentiality.

Printed Reports and Profiles

There are three series of printed reports with one report per state and a national summary volume. These reports are sold through the U.S. Government Printing Office. Much of the information in these series is available earlier in other data products. For release and ordering information, see the Census Catalog (https://catalog.mso.census.gov/).

Profiles and other data tables are generally available on the Internet. Printed copies of the profiles are offered as a print-on-demand product. Contact the Customer Services Center (301-763-4636) for pricing and availability.

Summary Population and Housing Characteristics (PHC-1). This publication series includes information on the 100-percent population and housing subjects. The data are available for the United States, regions, divisions, states, counties, county subdivisions, places, metropolitan areas, urbanized areas, American Indian and Alaska Native areas, and Hawaiian home lands. This series is comparable to the 1990 CPH-1 report series, Summary Population and Housing Characteristics. The series is also available in PDF format on the Internet.

Summary Social, Economic, and Housing Characteristics (PHC-2). This publication series includes information on the sample population and housing subjects. Data are shown for the same geographic areas as Summary Population and Housing Characteristics (PHC-1) described above. This series is comparable to the 1990 CPH-5 report series, Summary Social, Economic, and Housing Characteristics. The series is available in PDF format on the Internet.

Population and Housing Unit Counts (PHC-3). This publication series includes population and housing unit counts for Census 2000 as well as the 1990 and earlier censuses. Information on area measurements and population density is included. This series includes one printed report for each state, the District of Columbia, and Puerto Rico plus a national report. The series is available in PDF format on the Internet.

Profiles and Other Data Tables. Demographic profiles, quick tables, and geographic comparison tables include predefined sets of data to meet the needs of the majority of data users. They are convenient and readily available sources when moderate subject and geographic detail is needed. Demographic profiles (PDF) are available on the Census Bureau's Web site. Demographic profiles as well as quick tables and geographic comparison tables are available through American FactFinder.

CENSUS 2000 MAPS AND GEOGRAPHIC PRODUCTS

A variety of maps, boundary files, and other geographic products are available to help users locate and identify geographic areas. These products are available in various media, such as the Internet, CD-ROM, DVD, and, for maps, as print-on-demand products. A complete description of Census 2000 geographic products and resources is available at www.census.gov/geo/www/.

TIGER/Line Files. These files contain geographic boundaries and codes, streets, address ranges, and coordinates for use with commercially available geographic information systems (GIS) for mapping and other applications.

Census Block Maps. These maps show the boundaries, names, and codes for American Indian and Alaska Native areas and Hawaiian home lands, states, counties, county subdivisions, places, census tracts, and census blocks. This map series is also produced by specified governmental units (e.g., American Indian/Alaska Native areas, Hawaiian home lands, counties, incorporated places, and functioning minor civil divisions).

Census Tract Outline Maps. These county maps provide the boundaries and numbers of census tracts and names of features underlying the boundaries. They also show the boundaries, names, and codes for American Indian/Alaska Native areas, counties, county subdivisions, and places.

Reference Maps. This series shows the boundaries for tabulation areas including states, counties, American Indian reservations, county subdivisions (minor civil divisions (MCDs)/census county divisions (CCDs)), incorporated places, and census designated places. This series includes the state and county subdivision outline maps, urbanized area maps, and metropolitan area maps. These maps vary in size from wall to page size.

Generalized Boundary Files. These files are designed for use in a geographic information system (GIS) or similar computer mapping software. Boundary files are available for most levels of census geography.

Thematic Maps. These colorful maps display Census 2000 data on such topics as population density and population distribution.

REFERENCE MATERIALS

The reference materials for Census 2000 are available at the Census Bureau's Internet site (www.census.gov) or, in the case of CD-ROMs/DVD, files on the product itself.

Census 2000 Gateway. This page provides descriptions and links to Internet tables and reference materials relating to Census 2000. It is available at http://www.census.gov/main/ www/cen2000.html or by selecting the Census 2000 logo on the Census Bureau's home page (www.census.gov).

Census Online Catalog. Census 2000 data products, their availability, and their prices are described in the Catalog portion of the Web site. The catalog can be reached from the Census Bureau home page by selecting Catalog from the side bar or at https://catalog.mso.census.gov.

American FactFinder®. American FactFinder (AFF) is the system that presents comprehensive data from Census 2000 as well as other Census Bureau data programs via the Internet. Reference materials about the data, including subject and geographic glossaries, are available by selecting Data Sets in the subject bar along the left side of the AFF main page (factfinder.census,gov). It also can be reached from www.census.gov by selecting American FactFinder from either the Subjects A to Z side bar or by directly selecting the American FactFinder side bar. Both bars are located on the left side of the screen.

Technical Documentation. Technical documentation includes an abstract, a how-to-use chapter, the table layouts, the summary level sequence chart, the subject and geographic glossaries, accuracy of the data, and the data dictionary. CD-ROM and DVD products include the relevant technical documentation file on the disc. Technical documentation for files released on CD-ROM/DVD is also available on the Web site at http://www.census.gov/prod/cen2000/.

SOURCES OF ASSISTANCE

U.S. Census Bureau. The Census Bureau's Customer Services Center sells the Census 2000 CD-ROM and DVD products. These can be ordered via e-commerce from the Census Catalog at https://catalog.mso.census.gov/ or by telephoning Customer Services at 301-763-4636.

The Census Bureau also has an active customer information program in each of its 12 regions. This program, called the Partnership and Data Services (PDS) program, provides information about Census Bureau statistics and offers training and assistance to data users. The Partnership and Data Services specialists in the Census Bureau's 12 Regional Offices answer thousands of questions each year. State coverage for each region as well as contact information is available at http://www.census.gov/contacts/www/c-regoff.html.

Superintendent of Documents, U.S. Government Printing Office (GPO). The GPO (www.gpo.gov) handles the sale of most of the federal government's publications, including Census 2000 reports. The GPO online bookstore is available at http://bookstore.gpo.gov/index.html. For the current information on ordering publications from GPO, see http://bookstore.gpo.gov/prf/ordinfo.html.

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, Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands. State Data Centers (SDCs), in turn, offer publications for reference, specially prepared reports, maps, other products, and assistance to data users. A component of the program is the Business

and Industry Data Center (BIDC) Program, which supports the business community by expanding SDC services to government, academic, and nonprofit organizations that directly serve businesses. For a list of SDC/BIDCs, including their services and their Web sites, access http://www.census.gov/sdc/www/.

Census Information Centers. The Census Information Center (CIC) program is a cooperative activity between the Census Bureau and national nonprofit organizations representing interests of racial and ethnic communities. The program objective is to make census information and data available to the participating organizations for analysis, policy planning, and for further dissemination through a network of regional and local affiliates. For a listing of the organizations and the contacts, access http://www.census.gov/clo/www/cic.html.

The Census Bureau's Customer Liaison Office administers both the SDC and CIC programs. For more information on programs of that office, access http://www.census.gov/clo/www/clo.html.

Figure E–1. **Geographic Product Highlights**

Census 2000 Geographic Product Highlights

United States Census 2000

Maps and Geographic Products

A variety of maps,boundary files, and other geographic products will be available to help users locate and identify geographic areas. These products will be available in various media, such as the Internet, CD-ROM, DVD, and, in the case of maps, as print-on-demand products.

Census 2000 Block Maps

Paper available:
4th quarter 2001

PDF files available on Internet:
4th quarter 2001

The Census Bureau's block maps show the greatest detail and most complete set of geographic information. These large-scale maps depict the smallest geographic entities for which the Census Bureau presents data—the census blocks—by displaying the features that form block boundaries and the numbers that identify them. The intent of this map series is to produce a map for each governmental unit (e.g., American Indian areas/Alaska Native areas/Hawaiian home lands, county, place, and functioning minor civil division) on the smallest possible number of map sheets at the maximum practical scale. Lowest level of geography: Census Block. Media: DVD, Internet, CD-ROM (custom order only) and paper. [Formats: PDF; Size: 36"x 33"]

Census 2000 County Block Maps (Redistricting Product)

Paper, CD-ROM, and Internet:
AVAILABLE NOW

DVD available:
1st quarter 2002

County Block Maps are essentially the same type of map as the Census 2000 Block Maps described above except that they are created for each county unit, and they have the voting district boundaries.The maps show the boundaries, names, and codes for American Indian areas/Alaska Native areas/Hawaiian home lands, county divisions, places, voting districts, census tracts, block groups, and census blocks. Media: DVD, Internet, CD-ROM (custom order only) and paper. [Formats: PDF; Size: 36"x 33"]

Census 2000 TIGER/Line® Files

Internet and Custom CD-ROM:
AVAILABLE NOW

This is the public version of the Census Bureau's TIGER database of geographic features for the United States and the U.S. Island Areas. The TIGER database is the source of all Census Bureau geographic products. The TIGER/Line® files include the January 1, Census 2000 governmental unit boundaries, Census 2000 statistical area boundaries, Census 2000 tabulation block numbers, feature updates from Census 2000 enumeration, address range enhancements, and ZIP Code Tabulation Areas (ZCTAs). Available now on our Web site at www.census.gov/geo/www/tiger/index.html Media: Internet and custom order CD-ROM and DVD. [Format: ASCII]

Redistricting Census 2000 TIGER/Line® Files

Internet, DVD, and CD-ROM:
AVAILABLE NOW
www.census.gov/mp/www/dvd/msdvd3.html

The first release of the Census 2000 TIGER/Line® files is specifically intended to support the needs of the redistricting community. Because of the timing of this release, it does NOT include the ZIP Code Tabulation Areas (ZCTAs), nor all of the final Census 2000 address range information. The following areas are not included in this release: American Samoa, Guam, Northern Mariana Islands, U.S. Minor Outlying Islands (Midway) and the U.S. Virgin Islands. Media: DVD, Internet, and CD-ROM (custom order only). [Format: ASCII]

Census 2000 Census Tract Outline Maps

Paper, CD-ROM, and Internet:
AVAILABLE NOW

DVD available:
1st quarter 2002

These county maps show the boundaries and numbers of the 2000 census tracts and name the features underlying the boundaries. They also show the boundaries, names, and codes for American Indian areas/Alaska Native areas/Hawaiian home lands, counties, county subdivisions, and places. In addition to county-based series, maps will be produced based on federally recognized American Indian Reservations. Media: DVD, Internet, CD-ROM (custom order only) and paper. [Formats: PDF and paper; Size: 36"x 33"]

Census 2000 Voting District/State Legislative District Outline Maps

(P.L. 94-171 Redistricting Product)

Paper and Internet:
AVAILABLE NOW

CD and DVD available:
1st quarter 2002

These county-based maps show the boundaries and codes for Voting Districts as delineated by the participating states in Phase 2, Voting District Project, of the Redistricting Data Program; the features underlying these boundaries; and the names of these features. Additionally, for states that submitted the information, these maps show the boundaries and codes for state legislative districts and their underlying features. These maps also show the boundaries and names of American Indian areas/Alaska Native areas/Hawaiian home lands, counties, county subdivisions, and places. The maps are available only for those states and counties where information was provided under the Voting District Project. Media: DVD, Internet, CD-ROM (custom order only) and paper. [Formats: PDF; Size: 36"x 33"]

Proposed product content and release dates subject to change.

USCENSUSBUREAU
Helping You Make Informed Decisions •1902-2002

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU

Issued January 2002
MSO/01-GPH

Census 2000 Geographic Product Highlights

United States Census 2000

Reference Maps
3rd quarter 2001-2003

- State/County Subdivision Maps
- State/County Outline Maps
- Counties of the United States Wall Map
- State-Based Metropolitan Areas Maps (Page-size)
- Metropolitan Areas Wall Map
- (Public Use Microdata Area) (PUMA) Outline Maps
- Individual Urbanized Area (UA) Outline Maps
- 108th Congressional District Wall Maps
- 108th Congressional District Atlas
- Urbanized Areas of the United States
- Individual 108th Congressional District Wall Map
- New (ZIP Code Tabulation Area) (ZCTA) Outline Maps

Statistical Thematic Maps
beginning 3rd quarter 2001

- "Night Time" Population Distribution Map available now at www.census.gov/geo/www/mapGallery/index.html
- Population Density in the United States Maps
- Race and Ethnicity Population Density of the United States Maps
- Center of Population of the United States available online at www.census.gov/geo/www/cenpop/cntpop2k.html

(Additional map topics are likely.)

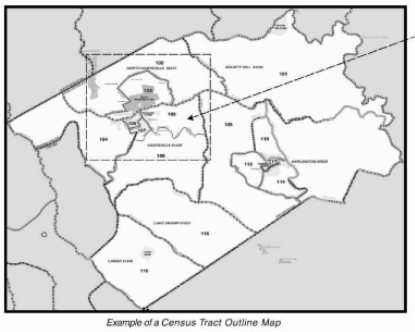
Other Digital Products
Cartographic Boundary Files

These are generalized boundary files appropriate for small scale thematic mapping. The files are available for most levels of census geography, starting with the census block group that includes New England County Metropolitan Areas (NECMA), and ZCTA boundary files. Media: Internet [Formats: ARC/INFO Export (.e00), Arcview Shapefile (.shp), and ARC/INFO ungenerate (ASCII)] Additional boundary files will be released 2002-2003 (ex. PUMA, UAs).

The following boundary files are already available for free download from the **Cartographic Boundary File Web page** www.census.gov/geo/www/cob/

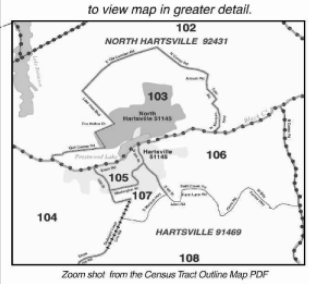
Redistricting Census 2000 Boundary File Set — region, division, state, county and county equivalents, county subdivision, census tract, block group, American Indian/Alaska Native area/ Hawaiian home land (AIANA/HHL), Place, consolidated city, voting districts, State Legislative Districts 1990 Boundary File Set — state, county and county equivalents, census tract, block group, urbanized area.

Boundary files for geographic entities redefined between censuses Places (('90,'99), Metropolitan Areas ('90,'96,'98,'99), Congressional Districts (103rd,104th,105th,106th,107th)



Example of a Census Tract Outline Map

Use ADOBE Reader's Zoom tool to view map in greater detail.



Zoom shot from the Census Tract Outline Map PDF

Census Block Relationship Files

Internet:
AVAILABLE NOW

DVD available:
1st quarter 2002

New Product Block Relationship Files compare 1990 to 2000 blocks. Lowest level of geography: census block. Media: Internet. www.census.gov/geo/www/tiger

Census Tract Relationship Files

Internet:
AVAILABLE NOW

DVD available:
1st quarter 2002

(formerly called Comparability files) Compare 1990 to 2000 tracts. Lowest level of geography: census tract Media: Internet. www.census.gov/geo/www/tiger

For more information about Census 2000 and Census 2000 Data Products:

- Visit the Census Bureau 's Internet site at *www.census.gov* or call our Customer Services Center at 301-763-INFO (4636).
- Visit your local library. Many major university and public libraries participate in the Federal Depository Library Program and receive copies of Census Bureau reports, DVDs, and CD-ROMs.
- Call or visit one of 2,000 state, tribal, minority serving institutions, local planning groups, libraries, chambers of commerce, and others that participate in a Census Bureau data dissemination program.For general program information,see: *http://www.census.gov/clo/www/clo.html.*
- Call or visit a Census Bureau Regional Office. For the address and phone number of the regional office nearest you, visit: *http://www.census.gov/field/www/.*

Proposed product content and release dates subject to change.

Appendix F.
Maps

CONTENTS

	Page
Introduction	F–1
Map Descriptions	F–1
Census 2000 Super-Public Use Microdata Area (PUMA) Map Sample	F–2
Census 2000 Public Use microdata Area (PUMA) Map Sample	F–3

INTRODUCTION

There are two map series that support Census 2000 Public use Microdata Samples (PUMS) data; the 1-percent Census 2000 Super-Public Use Microdata Area (PUMA) maps and the 5-percent Census 2000 Public Use Microdata Area (PUMA) maps. These page size maps will be in Adobe's Portable Document Format (PDF) on the product CD-ROM and also online through the Census Bureau's American FactFinder.

MAP DESCRIPTIONS

Census 2000 Super-Public Use Microdata Area (PUMA) Maps

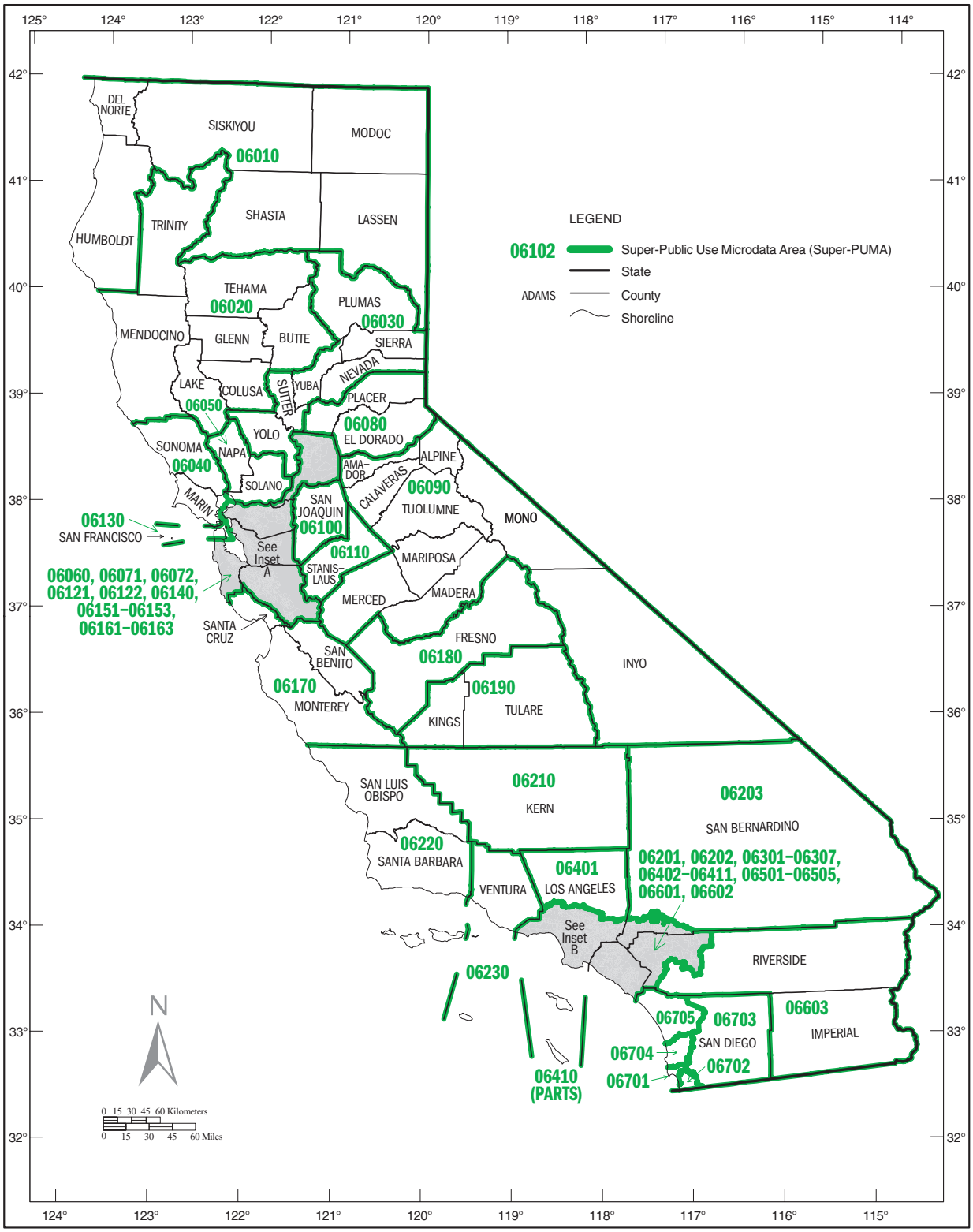
Super-PUMAs (1-percent sample) comprise areas of at least 400,000 people and are aggregations of the smaller 5-percent Public Use Microdata Areas. These page size state-based maps depict Super-PUMA boundaries and codes, state boundaries, and county boundaries and names. (See Figure F-1.) Inset maps are used when the Super-PUMA boundaries and codes cannot be displayed clearly on the page size state-bsed map. In that case, the area to be inset is shaded on the state map and the Super-PUMA detail is suppressed to avoid confusion. The corresponding inset area map containing the associated Super-PUMA detail is displayed either on the same page with the state-based map or on a separate, succeeding page.

Census 2000 Public Use Microdata Area (PUMA) Maps

These page-size Super-PUMA based maps display the boundaries and codes of the component 5-percent sample Public Use Microdata Areas (PUMAs) within the Super-PUMA. Additionally, the maps show county boundaries and names along with census tract boundaries within the boundary of the subject Super-PUMA. Some surrounding fringe area is included as a shaded gray area for orientation purposes. This fringe area includes international, state and county boundaries and names, as well as the neighboring Super-PUMA boundaries and codes. No census tract boundary information is shown in the fringe area of the map. (See Figure F-2.)

Figure F-1. **Census 2000 Super-Public Use Microdata Area (PUMA) Map**

CALIFORNIA – Census 2000 Super–Public Use Microdata Areas (Super–PUMAs)

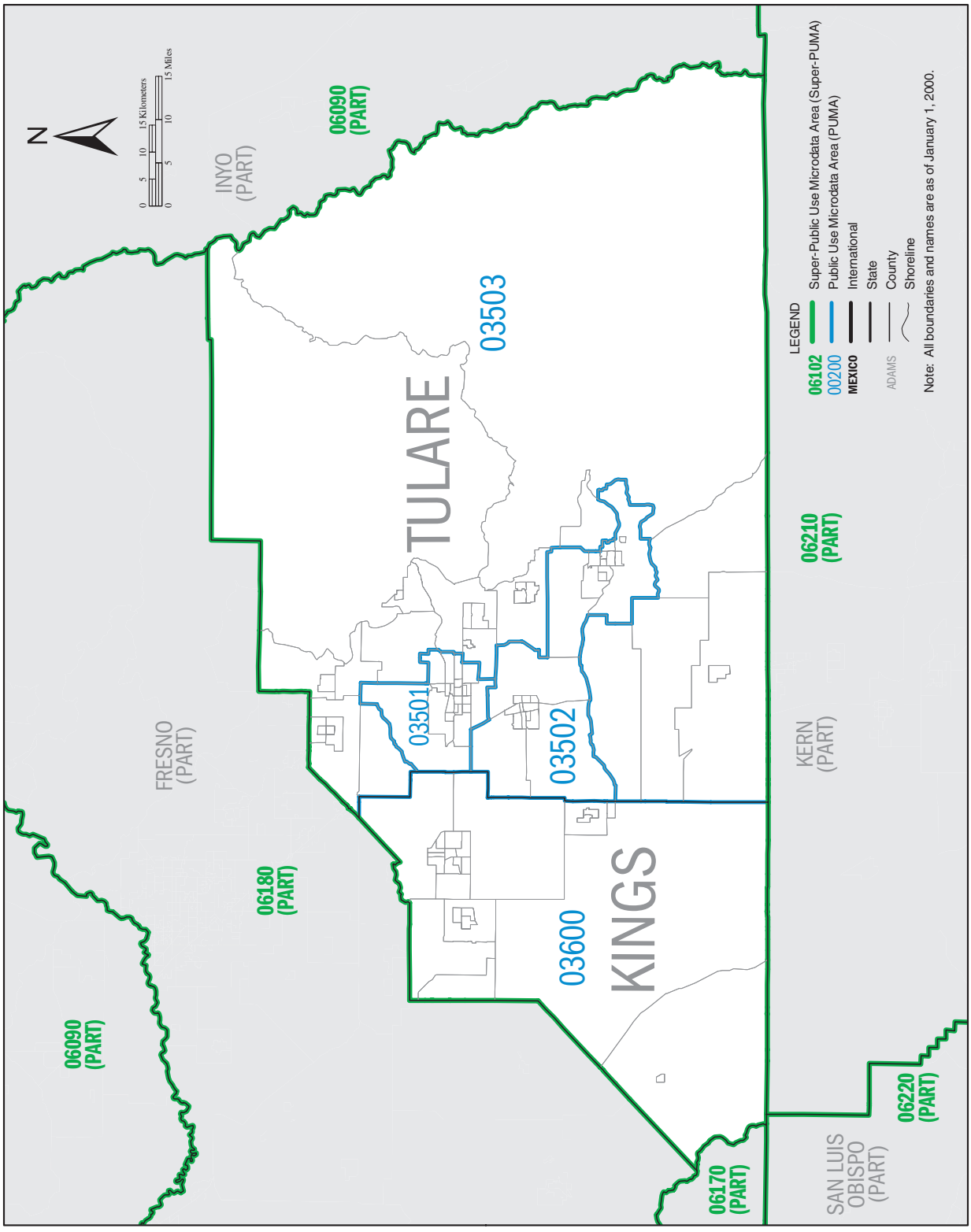


Public Use Microdata Sample (PUMS) Files
U.S. Census Bureau, Census 2000

California 1

Figure F-2. **Census 2000 Public Use Microdata Area (PUMA) Map**

CALIFORNIA Super–PUMA 06190: Census 2000 Public Use Microdata Areas (PUMAs)



Public Use Microdata Sample (PUMS) Files
U.S. Census Bureau, Census 2000

Appendix G.
Code Lists

	Page
Ancestry	G–1
Group Quarters	G–16
Hispanic or Latino Origin	G–21
Industry	G–23
Language	G–34
Occupation	G–46
Race	G–66
State and Foreign Country	G–103

ANCESTRY CODE LIST

Codes	Ancestry
001-099	WESTERN EUROPE (EXCEPT SPAIN)
001	ALSATIAN
002	ANDORRAN
003	AUSTRIAN
004	TIROL
005	BASQUE
006	FRENCH BASQUE
007	SPANISH BASQUE
008	BELGIAN
009	FLEMISH
010	WALLOON
011	BRITISH
012	BRITISH ISLES
013	CHANNEL ISLANDER
014	GIBRALTAR
015	CORNISH
016	CORSICAN
017	CYPRIOT
018	GREEK CYPRIOTE
019	TURKISH CYPRIOTE
020	DANISH
021	DUTCH
022	ENGLISH
023	FAEROE ISLANDER
024	FINNISH
025	KARELIAN
026	FRENCH
027	LORRAINE
028	BRETON
029	FRISIAN
030	FRIULIAN
031	LADIN
032	GERMAN
033	BAVARIA
034	BERLIN

Codes	Ancestry
035	HAMBURG
036	HANNOVER
037	HESSIAN
038	LUBECKER
039	POMERANIAN
040	PRUSSIAN
041	SAXON
042	SUDETENLANDER
043	WESTPHALIAN
044	EAST GERMAN
045	WEST GERMAN
046	GREEK
047	CRETAN
048	CYCLADES
049	ICELANDER
050	IRISH
051	ITALIAN
052	TRIESTE
053	ABRUZZI
054	APULIAN
055	BASILICATA
056	CALABRIAN
057	AMALFIN
058	EMILIA ROMAGNA
059	ROME
060	LIGURIAN
061	LOMBARDIAN
062	MARCHE
063	MOLISE
064	NEAPOLITAN
065	PIEDMONTESE
066	PUGLIA
067	SARDINIAN
068	SICILIAN
069	TUSCANY
070	TRENTINO
071	UMBRIAN
072	VALLE DAOST
073	VENETIAN
074	SAN MARINO
075	LAPP
076	LIECHTENSTEINER
077	LUXEMBURGER
078	MALTESE
079	MANX
080	MONEGASQUE
081	NORTH IRISH
082	NORWEGIAN
083	OCCITAN
084	PORTUGUESE
085	AZORES ISLANDER
086	MADEIRA ISLANDER
087	SCOTCH IRISH

Codes	Ancestry
088	SCOTTISH
089	SWEDISH
090	ALAND ISLANDER
091	SWISS
092	SUISSE
093	SWITZER
094	NOT USED
095	ROMANSCH
096	SUISSE ROMANE
097	WELSH
098	SCANDINAVIAN
099	CELTIC
100-180	**EASTERN EUROPE AND SOVIET UNION**
100	ALBANIAN
101	AZERBAIJANI
102	BELORUSSIAN
103	BULGARIAN
104	CARPATHO RUSYN
105	CARPATHIAN
106	RUSYN
107	RUTHENIAN
108	COSSACK
109	CROATIAN
110	NOT USED
111	CZECH
112	BOHEMIAN
113	MORAVIAN
114	CZECHOSLOVAKIAN
115	ESTONIAN
116	LIVONIAN
117	FINNO UGRIAN
118	MORDOVIAN
119	VOYTAK
120	GRUZIIA
121	NOT USED
122	GERMAN FROM RUSSIA
123	VOLGA
124	ROM
125	HUNGARIAN
126	MAGYAR
127	KALMYK
128	LATVIAN
129	LITHUANIAN
130	MACEDONIAN
131	MONTENEGRIN
132	NORTH CAUCASIAN
133	NORTH CAUCASIAN TURKIC
134-139	NOT USED
140	OSSETIAN
141	NOT USED
142	POLISH
143	KASHUBIAN

Codes	Ancestry
144	ROMANIAN
145	BESSARABIAN
146	MOLDAVIAN
147	WALLACHIAN
148	RUSSIAN
149	NOT USED
150	MUSCOVITE
151	NOT USED
152	SERBIAN
153	SLOVAK
154	SLOVENE
155	SORBIAN/WEND
156	SOVIET TURKIC
157	BASHKIR
158	CHUVASH
159	GAGAUZ
160	MESKNETIAN
161	TUVINIAN
162	NOT USED
163	YAKUT
164	SOVIET UNION
165	TATAR
166	NOT USED
167	SOVIET CENTRAL ASIA
168	TURKESTANI
169	UZBEG
170	GEORGIA CIS
171	UKRAINIAN
172	LEMKO
173	BIOKO
174	HUSEL
175	WINDISH
176	YUGOSLAVIAN
177	HERZEGOVINIAN
178	SLAVIC
179	SLAVONIAN
180	TAJIK
181-199	**EUROPE, N.E.C.**
181	CENTRAL EUROPEAN
182	NOT USED
183	NORTHERN EUROPEAN
184	NOT USED
185	SOUTHERN EUROPEAN
186	NOT USED
187	WESTERN EUROPEAN
188-189	NOT USED
190	EASTERN EUROPEAN
191	BUKOVINA
192	NOT USED
193	SILESIAN
194	NOT USED
195	EUROPEAN

Codes	Ancestry
196	GALICIAN
197-199	NOT USED
200-299	**HISPANIC CATEGORIES (INCLUDING SPAIN)**
200	SPANIARD
201	ANDALUSIAN
202	ASTURIAN
203	CASTILLIAN
204	CATALONIAN
205	BALEARIC ISLANDER
206	GALLEGO
207	VALENCIAN
208	CANARY ISLANDER
209	NOT USED
210	MEXICAN
211	MEXICAN AMERICAN
212	MEXICANO
213	CHICANO
214	LA RAZA
215	MEXICAN AMERICAN INDIAN
216-217	NOT USED
218	MEXICAN STATE
219-220	NOT USED
221	COSTA RICAN
222	GUATEMALAN
223	HONDURAN
224	NICARAGUAN
225	PANAMANIAN
226	SALVADORAN
227	CENTRAL AMERICAN
228	NOT USED
229	CANAL ZONE
230	NOT USED
231	ARGENTINEAN
232	BOLIVIAN
233	CHILEAN
234	COLOMBIAN
235	ECUADORIAN
236	PARAGUAYAN
237	PERUVIAN
238	URUGUAYAN
239	VENEZUELAN
240-247	NOT USED
248	CRIOLLO
249	SOUTH AMERICAN
250	LATIN AMERICAN
251	LATIN
252	LATINO
253-260	NOT USED
261	PUERTO RICAN
262-270	NOT USED
271	CUBAN
272-274	NOT USED

Codes	Ancestry
275	DOMINICAN
276-289	NOT USED
290	HISPANIC
291	SPANISH
292	CALIFORNIO
293	TEJANO
294	NUEVO MEXICANO
295	SPANISH AMERICAN
296-299	NOT USED
300-359	**WEST INDIES (EXCEPT HISPANIC)**
300	BAHAMIAN
301	BARBADIAN
302	BELIZEAN
303	BERMUDAN
304	CAYMAN ISLANDER
305-307	NOT USED
308	JAMAICAN
309	NOT USED
310	DUTCH WEST INDIES
311	ARUBA ISLANDER
312	ST MAARTEN ISLANDER
313	NOT USED
314	TRINIDADIAN TOBAGONIAN
315	TRINIDADIAN
316	TOBAGONIAN
317	U S VIRGIN ISLANDER
318	ST CROIX ISLANDER
319	ST JOHN ISLANDER
320	ST THOMAS ISLANDER
321	BRITISH VIRGIN ISLANDER
322	BRITISH WEST INDIES
323	TURKS AND CAICOS ISLANDER
324	ANGUILLA ISLANDER
325	ANTIGUA AND BARBUDA
326	MONTSERRAT ISLANDER
327	KITTS/NEVIS ISLANDER
328	DOMINICA ISLANDER
329	GRENADIAN
330	VINCENT-GRENADINE ISLANDER
331	ST LUCIA ISLANDER
332	FRENCH WEST INDIES
333	GUADELOUPE ISLANDER
334	CAYENNE
335	WEST INDIAN
336	HAITIAN
337-359	NOT USED
360-399	**CENTRAL & SOUTH AMERICA (EXCEPT HISPANIC)**
360	BRAZILIAN
361-364	NOT USED
365	SAN ANDRES
366-369	NOT USED
370	GUYANESE

Codes	Ancestry
371-374	NOT USED
375	PROVIDENCIA
376-379	NOT USED
380	SURINAM
381-399	NOT USED
400-499	**NORTH AFRICA AND SOUTHWEST ASIA**
400	ALGERIAN
401	NOT USED
402	EGYPTIAN
403	NOT USED
404	LIBYAN
405	NOT USED
406	MOROCCAN
407	IFNI
408	TUNISIAN
409-410	NOT USED
411	NORTH AFRICAN
412	ALHUCEMAS
413	BERBER
414	RIO DE ORO
415	BAHRAINI
416	IRANIAN
417	IRAQI
418	NOT USED
419	ISRAELI
420	NOT USED
421	JORDANIAN
422	TRANSJORDAN
423	KUWAITI
424	NOT USED
425	LEBANESE
426	NOT USED
427	SAUDI ARABIAN
428	NOT USED
429	SYRIAN
430	NOT USED
431	ARMENIAN
432-433	NOT USED
434	TURKISH
435	YEMENI
436	OMANI
437	MUSCAT
438	TRUCIAL STATES
439	QATAR
440	NOT USED
441	BEDOUIN
442	KURDISH
443	NOT USED
444	KURIA MURIA ISLANDER
445-464	NOT USED
465	PALESTINIAN
466	GAZA STRIP

Codes	Ancestry
467	WEST BANK
468-469	NOT USED
470	SOUTH YEMEN
471	ADEN
472-479	NOT USED
480	UNITED ARAB EMIRATES
481	NOT USED
482	ASSYRIAN/CHALDEAN/SYRIAC
483	ASSYRIAN
484	CHALDEAN
485	SYRIAC
486-489	NOT USED
490	MIDEAST
491-494	NOT USED
495	ARAB
496	ARABIC
497-499	NOT USED
500-599	**SUBSAHARAN AFRICA**
500	ANGOLAN
501	NOT USED
502	BENIN
503	NOT USED
504	BOTSWANA
505	NOT USED
506	BURUNDIAN
507	NOT USED
508	CAMEROON
509	NOT USED
510	CAPE VERDEAN
511	NOT USED
512	CENTRAL AFRICAN REPUBLIC
513	CHADIAN
514	NOT USED
515	CONGOLESE
516	CONGO BRAZZAVILLE
517-518	NOT USED
519	DJIBOUTI
520	EQUATORIAL GUINEA
521	CORSICO ISLANDER
522	ETHIOPIAN
523	ERITREAN
524	NOT USED
525	GABONESE
526	NOT USED
527	GAMBIAN
528	NOT USED
529	GHANIAN
530	GUINEAN
531	GUINEA BISSAU
532	IVORY COAST
533	NOT USED
534	KENYAN

Codes	Ancestry
535-537	NOT USED
538	LESOTHO
539-540	NOT USED
541	LIBERIAN
542	NOT USED
543	MADAGASCAN
544	NOT USED
545	MALAWIAN
546	MALIAN
547	MAURITANIAN
548	NOT USED
549	MOZAMBICAN
550	NAMIBIAN
551	NIGER
552	NOT USED
553	NIGERIAN
554	FULANI
555	HAUSA
556	IBO
557	TIV
558	YORUBA
559-560	NOT USED
561	RWANDAN
562-563	NOT USED
564	SENEGALESE
565	NOT USED
566	SIERRA LEONEAN
567	NOT USED
568	SOMALIAN
569	SWAZILAND
570	SOUTH AFRICAN
571	UNION OF SOUTH AFRICA
572	AFRIKANER
573	NATALIAN
574	ZULU
575	NOT USED
576	SUDANESE
577	DINKA
578	NUER
579	FUR
580	BAGGARA
581	NOT USED
582	TANZANIAN
583	TANGANYIKAN
584	ZANZIBAR ISLANDER
585	NOT USED
586	TOGO
587	NOT USED
588	UGANDAN
589	UPPER VOLTAN
590	VOLTA
591	ZAIRIAN
592	ZAMBIAN

Codes	Ancestry
593	ZIMBABWEAN
594	AFRICAN ISLANDS (EXCEPT MADAGASCAR)
595	MAURITIAN
596	CENTRAL AFRICAN
597	EASTERN AFRICAN
598	WESTERN AFRICAN
599	AFRICAN
600-699	**SOUTH ASIA**
600	AFGHAN
601	BALUCHISTAN
602	PATHAN
603	BANGLADESHI
604-606	NOT USED
607	BHUTANESE
608	NOT USED
609	NEPALI
610-614	NOT USED
615	ASIAN INDIAN
616	KASHMIR
617	NOT USED
618	BENGALI
619	NOT USED
620	EAST INDIAN
621	NOT USED
622	ANDAMAN ISLANDER
623	NOT USED
624	ANDHRA PRADESH
625	NOT USED
626	ASSAMESE
627	NOT USED
628	GOANESE
629	NOT USED
630	GUJARATI
631	NOT USED
632	KARNATAKAN
633	NOT USED
634	KERALAN
635	NOT USED
636	MADHYA PRADESH
637	NOT USED
638	MAHARASHTRAN
639	NOT USED
640	MADRAS
641	NOT USED
642	MYSORE
643	NOT USED
644	NAGALAND
645	NOT USED
646	ORISSA
647	NOT USED
648	PONDICHERRY
649	NOT USED

Codes	Ancestry
650	PUNJAB
651	NOT USED
652	RAJASTHAN
653	NOT USED
654	SIKKIM
655	NOT USED
656	TAMIL NADU
657	NOT USED
658	UTTAR PRADESH
659-674	NOT USED
675	EAST INDIES
676-679	NOT USED
680	PAKISTANI
681-689	NOT USED
690	SRI LANKAN
691	SINGHALESE
692	VEDDAH
693-694	NOT USED
695	MALDIVIAN
696-699	NOT USED
700-799	**OTHER ASIA**
700	BURMESE
701	NOT USED
702	SHAN
703	CAMBODIAN
704	KHMER
705	NOT USED
706	CHINESE
707	CANTONESE
708	MANCHURIAN
709	MANDARIN
710-711	NOT USED
712	MONGOLIAN
713	NOT USED
714	TIBETAN
715	NOT USED
716	HONG KONG
717	NOT USED
718	MACAO
719	NOT USED
720	FILIPINO
721-729	NOT USED
730	INDONESIAN
731	NOT USED
732	BORNEO
733	NOT USED
734	JAVA
735	NOT USED
736	SUMATRA
737-739	NOT USED
740	JAPANESE
741	ISSEI

Codes	Ancestry
742	NISEI
743	SANSEI
744	YONSEI
745	GONSEI
746	RYUKYU ISLANDER
747	NOT USED
748	OKINAWAN
749	NOT USED
750	KOREAN
751-764	NOT USED
765	LAOTIAN
766	MEO
767	NOT USED
768	HMONG
769	NOT USED
770	MALAYSIAN
771	NORTH BORNEO
772-773	NOT USED
774	SINGAPOREAN
775	NOT USED
776	THAI
777	BLACK THAI
778	WESTERN LAO
779-781	NOT USED
782	TAIWANESE
783	FORMOSAN
784	NOT USED
785	VIETNAMESE
786	KATU
787	MA
788	MNONG
789	NOT USED
790	MONTAGNARD
791	NOT USED
792	INDO CHINESE
793	EURASIAN
794	AMERASIAN
795	ASIAN
796-799	NOT USED
800-899	**PACIFIC**
800	AUSTRALIAN
801	TASMANIAN
802	AUSTRALIAN ABORIGINE
803	NEW ZEALANDER
804-807	NOT USED
808	POLYNESIAN
809	KAPINGAMARANGAN
810	MAORI
811	HAWAIIAN
812	NOT USED
813	PART HAWAIIAN
814	SAMOAN

Codes	Ancestry
815	TONGAN
816	TOKELAUAN
817	COOK ISLANDER
818	TAHITIAN
819	NIUEAN
820	MICRONESIAN
821	GUAMANIAN
822	CHAMORRO ISLANDER
823	SAIPANESE
824	PALAUAN
825	MARSHALLESE
826	KOSRAEAN
827	PONAPEAN
828	TRUKESE (CHUUKESE)
829	YAPESE
830	CAROLINIAN
831	KIRIBATESE
832	NAURUAN
833	TARAWA ISLANDER
834	TINIAN ISLANDER
835-839	NOT USED
840	MELANESIAN
841	FIJIAN
842	NOT USED
843	NEW GUINEAN
844	PAPUAN
845	SOLOMON ISLANDER
846	NEW CALEDONIAN
847	VANUATUAN
848-849	NOT USED
850	PACIFIC ISLANDER
851-859	NOT USED
860	PACIFIC
861	NOT USED
862	CHAMOLINIAN
863-899	NOT USED
900-994	**NORTH AMERICA (EXCEPT HISPANIC)**
900	AFRICAN AMERICAN
901	AFRO
902	AFRICAN AMERICAN
903	BLACK
904	NEGRO
905	NONWHITE
906	COLORED
907	CREOLE
908	MULATTO
909-912	NOT USED
913	CENTRAL AMERICAN INDIAN
914	SOUTH AMERICAN INDIAN
915-916	NOT USED
917	NATIVE AMERICAN
918	INDIAN

Codes	Ancestry
919	CHEROKEE
920	AMERICAN INDIAN
921	ALEUT
922	ESKIMO
923	INUIT
924	WHITE
925	ANGLO
926	NOT USED
927	APPALACHIAN
928	ARYAN
929	PENNSYLVANIA GERMAN
930	GREENLANDER
931	CANADIAN
932	NOT USED
933	NEWFOUNDLAND
934	NOVA SCOTIA
935	FRENCH CANADIAN
936	ACADIAN
937	CAJUN
938	NOT USED
939	AMERICAN
940	UNITED STATES
941	ALABAMA
942	ALASKA
943	ARIZONA
944	ARKANSAS
945	CALIFORNIA
946	COLORADO
947	CONNECTICUT
948	DISTRICT OF COLUMBIA
949	DELAWARE
950	FLORIDA
951	IDAHO
952	ILLINOIS
953	INDIANA
954	IOWA
955	KANSAS
956	KENTUCKY
957	LOUISIANA
958	MAINE
959	MARYLAND
960	MASSACHUSETTS
961	MICHIGAN
962	MINNESOTA
963	MISSISSIPPI
964	MISSOURI
965	MONTANA
966	NEBRASKA
967	NEVADA
968	NEW HAMPSHIRE
969	NEW JERSEY
970	NEW MEXICO
971	NEW YORK

Codes	Ancestry
972	NORTH CAROLINA
973	NORTH DAKOTA
974	OHIO
975	NOT USED
976	OKLAHOMA
977	OREGON
978	PENNSYLVANIA
979	RHODE ISLAND
980	SOUTH CAROLINA
981	SOUTH DAKOTA
982	TENNESSEE
983	TEXAS
984	UTAH
985	VERMONT
986	VIRGINIA
987	WASHINGTON
988	WEST VIRGINIA
989	WISCONSIN
990	WYOMING
991	GEORGIA
992	NOT USED
993	SOUTHERNER
994	NORTH AMERICAN
995-999	**RESIDUAL AND NO RESPONSE**
995	MIXTURE
996	UNCODABLE ENTRIES
997	NOT USED
998	OTHER RESPONSES
999	NOT REPORTED

GROUP QUARTERS

This code list was used by special place enumerators in Census 2000.

GQ Codes	Staff residents[1] GQ Codes	
		A. College Quarters (501)
501	–	1. *Dormitories and Fraternity and Sorority Houses (on and off campus)*
		B. Correctional Institutions (101-107)
101	905	1. *Federal Detention Centers* (including U.S. Park Police, Bureau of Indian Affairs, Immigration and Naturalization Service (INS) 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.)
102	905	2. *Federal Prisons* (including criminally insane wards operated by a federal prison within a mental or general hospital. If ward is not operated by a prison, code criminally insane ward "404" and "905" for staff residing in the group quarters.) NOTE: Do not include INS detention centers operating within federal prisons. Code INS detention centers "101" for aliens and "905" for staff residing in the group quarters. Do not include correctional centers for juveniles. Include juveniles facilities in Section I below.
105	905	3. *Halfway Houses* (operated for correctional purposes, including probation and restitution centers, prerelease centers, and community-residential treatment centers)
104	905	4. *Local (county, city, regional, and other municipalities) Jails and Other Confinement Facilities* (usually hold persons more than 48 hours) (includes work farms and police lockups) (usually hold persons for 48 hours or less) NOTE: Do not include INS detention centers operating within local jails. Code INS detention centers "101" for aliens and "905" for staff residing in the group quarters.
106	904	5. *Military Disciplinary Barracks* (including jails on military bases)
103	905	6. *State Prisons* (including criminally insane wards operated by a state prison within a mental or general hospital; if not operated by a prison, code according to Section G5) NOTE: Do not include INS detention centers operating within state prisons. Code INS detention centers "101" for aliens and "905" for staff residing in the group quarters.
107	905	7. *Other Types of Correctional Institutions* (including private correctional facilities and correctional facilities specifically for alcohol/drug abuse)
900	**–**	**C. Crews of Maritime Vessels (900)**
		D. Dormitories (601, 901-905)
901	–	1. *Agriculture Workers' Dormitories on Farms* (including migratory farm workers' camps, bunkhouses for ranch hands, and other dormitories on farms including those on "tree farms")
		2. *College Student Dormitories, and Fraternity and Sorority Houses* (see Section A above)
904	—	3. *Dormitories for Nurses and Interns in Military Hospitals*
905	—	4. *Dormitories for Nurses and Interns in General Hospitals*
601	—	5. *Military Quarters on Base, Including Barracks* (unaccompanied personnel housing (UPH) (Enlisted/Officer), and similar group living quarters for military personnel)

[1]Staff residing at the group quarters (GQ) are counted in the same GQ as other residents when no GQ code is provided.

GROUP QUARTERS—Con.

This code list was used by special place enumerators in Census 2000.

GQ Codes	Staff residents[1] GQ Codes	
902	—	6. *Other Workers' Dormitories* (including logging camps, construction workers' camps, firehouse dormitories, job-training camps, energy enclaves (Alaska only), Alaskan pipeline camps, nonfarm migratory workers' camps such as workers who lay oil and gas pipelines)
903	—	7. *Job Corps and Vocational Training Facilities for Persons Above the High School Level*
		E. Emergency Shelters/Service Locations (701-706)
701	—	1. *Shelters for the Homeless With Sleeping Facilities* (including emergency housing, missions, and flophouses, Salvation Army shelters, hotels and motels used entirely for homeless persons, hotels or motels used partially for the homeless, and similar places known to have persons with no usual home elsewhere who stay overnight)
702	—	2. *Shelters for Runaway, Neglected, and Homeless Children*
703	—	3. *Shelters for Abused Women* (or Shelters Against Domestic Violence)
		4. *Service Locations*
704	—	a. Soup kitchens
705	—	b. Regularly scheduled mobile food vans
706	—	5. *Targeted Nonsheltered Outdoor Locations*
		F. Group Homes/Halfway Houses (801-810) (with 10 or more unrelated persons (801-805) and with 9 or less unrelated persons (806-810): Including those providing community-based care and supportive services. For enumeration purposes, group homes were classified into ten type codes: 801 to 810. The classification was based upon expected size of the group home. For tabulation purposes, group homes were collapsed into five categories: 801 to 805.) NOTE: Do not include halfway houses operated for correctional purposes. If operated for correctional purposes, code according to Section B3.
801, 806	—	1. *Drug/Alcohol Abuse* (group homes, detoxification centers, quarterway houses (residential treatment facilities that work closely with an accredited hospital); halfway houses; recovery homes for ambulatory, mentally competent recovering alcoholics who may be re-entering the work force)
802, 807	—	2. *Mentally Ill*
803, 808	—	3. *Mentally Retarded*
804, 809	—	4. *Physically Handicapped*
805, 810	—	5. *Other Group Homes* (including communes, foster care homes, and maternity homes for unwed mothers)
		G. Hospitals and Wards, Hospices, and Schools for the Handicapped (400-410)
904	—	1. *Dormitories for Nurses and Interns in Military Hospitals*
905	—	2. *Dormitories for Nurses and Interns in General Hospitals*
400	905	3. *Drug/Alcohol Abuse* (hospitals and hospital wards in psychiatric and general hospitals)

[1]Staff residing at the group quarters (GQ) are counted in the same GQ as other residents when no GQ code is provided.

GROUP QUARTERS—Con.

This code list was used by special place enumerators in Census 2000.

GQ Codes	Staff residents[1] GQ Codes	
		4. *Chronically Ill*
401	904	a. Military hospitals or wards for chronically ill
402	905	b. Other hospitals or wards for chronically ill (including tuberculosis hospitals or wards; wards in general and veterans' hospitals for the chronically ill; wards for progressive or degenerative brain diseases, such as neurodegenerative process, spinal cord tumor, or other neurologic diseases; wards for patients with Hansen's Disease (leprosy) and other incurable diseases; and other unspecified wards for the chronically ill) NOTE: Do not include mental or drug/alcohol abuse hospitals or wards.
403	905	c. Hospices/homes for chronically ill (including hospices and homes for AIDS and cancer patients, and other unspecified terminal diseases.
404	905	5. *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 formally trained staff)
405	905	6. *Mentally Retarded* (schools, hospitals, wards (including wards in hospitals for the mentally ill), and intermediate care facilities for the mentally retarded (ICF/MR))
		7. *Physically Handicapped* (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)
406	905	a. Institutions for the deaf
407	905	b. Institutions for the blind
408	905	c. Orthopedic wards and institutions for physically handicapped (including institutions providing long-term care to accident victims, and persons with polio, cerebral palsy (leads to motor dysfunction), muscular dystrophy, etc.) NOTE: Do not include wards for terminally ill patients. Code such places as "401" military hospitals or wards for chronically ill or "402" other hospitals or wards for chronically ill.
409	905	8. *General Hospitals With Patients Who Have No Usual Home Elsewhere* (including maternity, neonatal, pediatric (including wards for boarder babies), Veterans' Affairs, surgical, and other purpose wards of hospitals and wards for infectious diseases)
410	904	9. *Military Hospitals With Patients Who Have No Usual Home Elsewhere* (including maternity, neonatal, pediatric (including wards for boarder babies), military, surgical, and other purpose wards of hospitals and wards for infectious diseases)
701	—	**H. Hotels/Motels (701)** (those used entirely or partially for persons without a usual home)

[1]Staff residing at the group quarters (GQ) are counted in the same GQ as other residents when no GQ code is provided.

GROUP QUARTERS—Con.

This code list was used by special place enumerators in Census 2000.

GQ Codes	Staff residents[1] GQ Codes	
		I. Juvenile Institutions (201-209) (including homes, schools, and detention centers)
		1. *Long-Term Care* (length of stay usually more than 30 days)
		a. Neglected, abused, and dependent children (orphanages, homes, or residential care)
201	905	(1) Public ownership
202	905	(2) Private ownership
203	905	(3) Ownership unknown (used as a last resort if no other type code applies)
204	905	b. Emotionally disturbed children (residential treatment centers (psychiatric care provided))
		c. Delinquent children (placed by court, parents, or social service agencies in residential training schools or homes, including industrial schools, camps, or farms)
205	905	(1) Public ownership
206	905	(2) Private ownership
207	905	(3) Ownership unknown (used only as a last resort if no other type code applies)
		2. *Short-Term Care* (length of stay usually 30 days or less)
208	905	a. Delinquent children (temporary care in detention centers, reception or diagnostic centers pending court disposition of case)
702	905	b. Runaway, neglected, and homeless children (emergency shelters/group homes which provide temporary sleeping facilities for juveniles) (see Section E2)
209	905	3. *Type of Juvenile Institution Unknown* (used only as a last resort if no other code applies)
		J. Military Quarters (601-603)
		1. *On Base:*
601	—	a. Barracks, unaccompanied personnel housing (UPH) (Enlisted/Officer), and similar group living quarters for military personnel
602	—	b. Transient quarters for temporary residents (military or civilian)
904	—	c. Dormitories for nurses and interns in military hospitals
106	904	d. Stockades and jails (on military bases)
603	—	2. *Military Ships*
604	—	3. *Group Quarters, Misc.* (for processing use only)
605	—	4. *Military Hotels/Campgrounds* (these locations are classified as housing units)
909	**—**	**K. Natural Disaster (909)** (includes those temporarily displaced by a natural disaster, such as "Hurricane Fran")

[1]Staff residing at the group quarters (GQ) are counted in the same GQ as other residents when no GQ code is provided.

GROUP QUARTERS—Con.

This code list was used by special place enumerators in Census 2000.

GQ Codes	Staff residents[1] GQ Codes	
		L. Nursing Homes (301-307) (skilled nursing facilities (SNF), intermediate care facilities (ICF), long-term care rooms in wards or buildings on the grounds of hospitals, nursing, convalescent, and rest homes including soldiers', sailors', veterans' hospitals, fraternal or religious homes for the aged with nursing care)
		1. *Public Ownership*
301	905	a. Federal ownership (including veterans' hospitals, domiciliary homes, and U.S. Naval homes)
302	905	b. State, county, or city ownership
303	905	c. Don't know if federal, state, county, or city ownership (used only as a last resort if no other type code applies)
		2. *Private ownership*
304	905	a. Private not-for-profit
305	905	b. Private for-profit
306	905	c. Don't know if for-profit or not-for-profit (used only as a last resort if no other type code applies)
307	905	3. *Don't Know If Federal, State, Local, or Private Ownership* (used only as a last resort if no other type code applies)
906	—	**M. Religious Group Quarters (906)** (including convents, monasteries, and rectories (classify members of religious orders who live in a dormitory at a hospital or college according to the type of place where they live, such as college or hospital dormitories))
911	—	**N. Residential Care Facilities Providing "Protective Oversight" (911)**
		O. Schools for the Handicapped (see Sections G6 and G7)
		P. Service Locations and Emergency Shelters (see Section E)
913	—	**Q. Other Household Living Situations "Dangerous Encampments" (913)** (these locations are classified as housing units)
908		**R. Other Nonhousehold Living Situations (908)** (including those not covered by other GQ codes shown herein, such as hostels, YMCA's, and YWCA's)
910	—	**S. Transient Locations (910)** (including commercial or public campgrounds, campgrounds at racetracks, fairs, carnivals, and similar transient sites. These locations are classified as housing units.)

[1]Staff residing at the group quarters (GQ) are counted in the same GQ as other residents when no GQ code is provided.

HISPANIC OR LATINO

NOT SPANISH/HISPANIC (001-199)

001-099	Not Used
100	Not Spanish/Hispanic (Checkbox)
101	Not Spanish/Hispanic
102-109	Not Used
110-121	Not Spanish/Hispanic
122-129	Not Used
130-168	Not Spanish/Hispanic
169-189	Not Used
190	Multiple NOT SPANISH/HISPANIC
191-199	Not Used

SPANIARD (200-209)

200	Spaniard
201	Andalusian
202	Asturian
203	Castillian
204	Catalonian
205	Balearic Islander
206	Gallego
207	Valencian
208	Canarian
209	Spanish Basque

MEXICAN (210-220)

210	Mexican (Checkbox)
211	Mexican
212	Mexican American
213	Mexicano
214	Chicano
215	La Raza
216	Mexican American Indian
217	Not Used
218	Mexico
219-220	Not Used

CENTRAL AMERICAN (221-230)

221	Costa Rican
222	Guatemalan
223	Honduran
224	Nicaraguan
225	Panamanian
226	Salvadoran
227	Central American
228	Central American Indian

HISPANIC OR LATINO—Con.

CENTRAL AMERICAN (221-230)—Con.

229	Canal Zone
230	Not Used

SOUTH AMERICAN (231-249)

231	Argentinean
232	Bolivian
233	Chilean
234	Colombian
235	Ecuadorian
236	Paraguayan
237	Peruvian
238	Uruguayan
239	Venezuelan
240	South American Indian
241	Criollo
242	South American
243-249	Not Used

LATIN AMERICAN (250-259)

250	Latin American
251	Latin
252	Latino
253-259	Not Used

PUERTO RICAN (260-269)

260	Puerto Rican (Checkbox)
261	Puerto Rican
262-269	Not Used

CUBAN (270-274)

270	Cuban (Checkbox)
271	Cuban
272-274	Not Used

DOMINICAN (275-279)

275	Dominican
276-279	Not Used

OTHER SPANISH/HISPANIC (280-299)

280	Other Spanish/Hispanic (Checkbox)
281	Hispanic
282	Spanish
283	Californio
284	Tejano
285	Nuevo Mexicano
286	Spanish American
287	Spanish American Indian
288	Meso American Indian
289	Mestizo
290	Caribbean
291	Multiple Hispanic
292-298	Not Used
299	Other Spanish/Hispanic, n.e.c.

NOT USED (300-999)

DETAILED INDUSTRY CODE LIST

1997 NAICS and Census 2000 sorted by 1997 NAICS codes and subsequent OMB directives (Census codes may not be in sequential order)

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Agriculture, forestry, fishing and hunting, and mining:	001-056	11, 21
Agriculture, forestry, fishing and hunting:	001-036	11
Unused codes	001-016	
Crop production	017	111
Animal production	018	112
Forestry except logging	019	1131, 1132
Unused codes	020-026	
Logging	027	1133
Fishing, hunting, and trapping	028	114
Support activities for agriculture and forestry	029	115
Unused codes	030-036	
Mining:	037-056	21
Oil and gas extraction	037	211
Coal mining	038	2121
Metal ore mining	039	2122
Unused codes	040-046	
Nonmetallic mineral mining and quarrying	047	2123
Not specified type of mining	048	Part of 21
Support activities for mining	049	213
Unused codes	050-056	
Utilities census codes 057-076 moved to Transportation and Warehousing NAICS subsector 48-49		
Construction:	077-106	23
Construction	077	23
Unused codes	078-106	
Manufacturing:	107-406	31-33
Animal food, grain, and oilseed milling	107	3111, 3112
Sugar and confectionery products	108	3113
Fruit and vegetable preserving and specialty food manufacturing	109	3114
Unused codes	110-116	
Dairy product manufacturing	117	3115
Animal slaughtering and processing	118	3116
Retail bakeries	119	311811
Unused codes	120-126	
Bakeries, except retail	127	3118 exc. 311811
Seafood and other miscellaneous foods, n.e.c.	128	3117, 3119
Not specified food industries	129	Part of 311
Unused codes	130-136	
Beverage manufacturing	137	3121
Unused code	138	
Tobacco manufacturing	139	3122
Unused codes	140-146	

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Manufacturing—Con.		
Fiber, yarn, and thread mills	147	3131
Fabric mills, except knitting	148	3132 exc. 31324
Textile and fabric finishing and coating mills	149	3133
Unused codes	150-156	
Carpets and rugs manufacturing	157	31411
Unused code	158	
Textile product mills except carpets and rugs	159	314 exc. 31411
Unused codes	160-166	
Knitting mills	167	31324, 3151
Cut and sew apparel manufacturing	168	3152
Apparel accessories and other apparel manufacturing	169	3159
Unused codes	170-176	
Footwear manufacturing	177	3162
Unused code	178	
Leather tanning and products, except footwear manufacturing	179	3161, 3169
Unused codes	180-186	
Sawmills and wood preservation	377	3211
Veneer, plywood, and engineered wood products	378	3212
Prefabricated wood buildings and mobile homes	379	321991, 321992
Unused codes	380-386	
Miscellaneous wood products	387	3219 exc. 321991, 321992
Unused code	388	
Pulp, paper, and paperboard mills	187	3221
Paperboard containers and boxes	188	32221
Miscellaneous paper and pulp products	189	32222, 32223, 32229
Unused codes	190-198	
Printing and related support activities	199	323
Unused codes	200-206	
Petroleum refining	207	32411
Unused code	208	
Miscellaneous petroleum and coal products	209	32412, 32419
Unused codes	210-216	
Resin, synthetic rubber and fibers, and filaments manufacturing	217	3252
Agricultural chemical manufacturing	218	3253
Pharmaceutical and medicine manufacturing	219	3254
Unused codes	220-226	
Paint, coating, and adhesives manufacturing	227	3255
Soap, cleaning compound, and cosmetic manufacturing	228	3256
Industrial and miscellaneous chemicals	229	3251, 3259
Unused codes	230-236	
Plastics product manufacturing	237	3261

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Manufacturing—Con.		
Tire manufacturing	238	32621
Rubber products, except tires, manufacturing	239	32622, 32629
Unused codes	240-246	
Pottery, ceramics, and related products manufacturing	247	32711
Structural clay product manufacturing	248	32712
Glass and glass product manufacturing	249	3272
Unused codes	250-256	
Cement, concrete, lime, and gypsum product manufacturing	257	3273, 3274
Unused code	258	
Miscellaneous nonmetallic mineral product manufacturing	259	3279
Unused codes	260-266	
Iron and steel mills and steel product manufacturing	267	3311, 3312
Aluminum production and processing	268	3313
Nonferrous metal, except aluminum, production and processing	269	3314
Unused codes	270-276	
Foundries	277	3315
Metal forgings and stampings	278	3321
Cutlery and hand tool manufacturing	279	3322
Unused codes	280-286	
Structural metals and tank and shipping container manufacturing	287	3323, 3324
Machine shops, turned product, screw, nut, and bolt manufacturing	288	3327
Coating, engraving, heat treating and allied activities	289	3328
Unused codes	290-296	
Ordnance	297	332992-332995
Miscellaneous fabricated metal products manufacturing	298	3325, 3326, 3329 exc. 332992-332995
Not specified metal industries	299	Part of 331 and 332
Unused codes	300-306	
Agricultural implement manufacturing	307	33311
Construction mining and oil field machinery manufacturing	308	33312, 33313
Commercial and service industry machinery manufacturing	309	3333
Unused codes	310-316	
Metalworking machinery manufacturing	317	3335
Engines, turbines, and power transmission equipment manufacturing	318	3336
Machinery manufacturing, n.e.c.	319	3332, 3334, 3339
Unused codes	320-328	
Not specified machinery manufacturing	329	Part of 333
Unused codes	330-335	
Computer and peripheral equipment manufacturing	336	3341

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Manufacturing—Con.		
Communications, audio, and video equipment manufacturing	337	3342, 3343
Navigational, measuring, electromedical, and control instruments manufacturing	338	3345
Electronic component and product manufacturing, n.e.c.	339	3344, 3346
Unused codes	340-346	
Household appliance manufacturing	347	3352
Unused code	348	
Electrical lighting, equipment, and supplies manufacturing, n.e.c.	349	3351, 3353, 3359
Unused codes	350-356	
Motor vehicles and motor vehicle equipment manufacturing	357	3361, 3362, 3363
Aircraft and parts manufacturing	358	336411-336413
Aerospace product and parts manufacturing	359	336414-336419
Unused codes	360-366	
Railroad rolling stock manufacturing	367	3365
Ship and boat building	368	3366
Other transportation equipment manufacturing	369	3369
Unused codes	370-376	
Codes 377-388 moved to NAICS 321 Subsector–Wood Product Manufacturing		
Furniture and related products manufacturing	389	337
Unused codes	390-395	
Medical equipment and supplies manufacturing	396	3391
Toys, amusement, and sporting goods manufacturing	397	33992, 33993
Miscellaneous manufacturing, n.e.c.	398	3399 exc. 33992, 33993
Not specified manufacturing industries	399	Part of 31-33
Unused codes	400-406	
Wholesale trade:	407-466	42
Motor vehicles, parts and supplies	407	4211
Furniture and home furnishings	408	4212
Lumber and other construction materials	409	4213
Unused codes	410-416	
Professional and commercial equipment and supplies	417	4214
Metals and minerals, except petroleum	418	4215
Electrical goods	419	4216
Unused codes	420-425	
Hardware, plumbing and heating equipment, and supplies	426	4217
Machinery, equipment, and supplies	427	4218
Recyclable material	428	42193
Miscellaneous durable goods	429	4219 exc. 42193
Unused codes	430-436	
Paper and paper product wholesalers	437	4221

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Wholesale trade—Con.		
Drugs, sundries, and chemical and allied product wholesalers	438	4222, 4226
Apparel, fabrics, and notions wholesalers	439	4223
Unused codes	440-446	
Groceries and related product wholesalers	447	4224
Farm product raw material wholesalers	448	4225
Petroleum and petroleum product wholesalers	449	4227
Unused codes	450-455	
Alcoholic beverage wholesalers	456	4228
Farm supplies wholesalers	457	42291
Miscellaneous nondurable goods wholesalers	458	4229 exc. 42291
Not specified wholesale trade	459	Part of 42
Unused codes	460-466	
Retail trade:	467-606	44-45
Automobile dealers	467	4411
Other motor vehicle dealers	468	4412
Auto parts, accessories, and tire stores	469	4413
Unused codes	470-476	
Furniture and home furnishings stores	477	442
Household appliance stores	478	443111
Radio, TV, and computer stores	479	443112, 44312
Unused codes	480-486	
Building material and supplies dealers	487	4441 exc. 44413
Hardware stores	488	44413
Lawn and garden equipment and supplies stores	489	4442
Unused codes	490-496	
Grocery stores	497	4451
Specialty food stores	498	4452
Beer, wine, and liquor stores	499	4453
Unused codes	500-506	
Pharmacies and drug stores	507	44611
Health and personal care, except drug stores	508	446 exc. 44611
Gasoline stations	509	447
Unused codes	510-516	
Clothing and accessories, except shoe stores	517	448 exc. 44821, 4483
Shoe stores	518	44821
Jewelry, luggage, and leather goods stores	519	4483
Unused codes	520-526	
Sporting goods, camera, and hobby and toy stores	527	44313, 45111, 45112
Sewing, needlework and piece goods stores	528	45113
Music stores	529	45114, 45122
Unused codes	530-536	
Book stores and news dealers	537	45121

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Retail trade—Con.		
Department stores	538	45211
Miscellaneous general merchandise stores	539	4529
Unused codes	540-546	
Retail florists	547	4531
Office supplies and stationary stores	548	45321
Used merchandise stores	549	4533
Unused codes	550-556	
Gift, novelty, and souvenir shops	557	45322
Miscellaneous retail stores	558	4539
Electronic shopping and mail-order houses	559	4541
Unused codes	560-566	
Vending machine operators	567	4542
Fuel dealers	568	45431
Other direct selling establishments	569	45439
Unused codes	570-578	
Not specified retail trade	579	Part of 44-45
Unused codes	580-606	
Transportation and warehousing, and utilities:	607-646, 057-076	48-49, 22
Transportation and warehousing:	607-646	48-49
Air transportation	607	481
Rail transportation	608	482
Water transportation	609	483
Unused codes	610-616	
Truck transportation	617	484
Bus service and urban transit	618	4851,4852, 4854-4859
Taxi and limousine service	619	4853
Unused codes	620-626	
Pipeline transportation	627	486
Scenic and sightseeing transportation	628	487
Services incidental to transportation	629	488
Unused codes	630-636	
Postal Service	637	491
Couriers and messengers	638	492
Warehousing and storage	639	493
Unused codes	640-646	
Utilities:	057-076	22
Electric power generation transmission and distribution	057	2211
Natural gas distribution	058	2212
Electric and gas and other combinations	059	Pts. 2211, 2212
Unused codes	060-066	
Water, steam, air-conditioning, and irrigation systems	067	22131, 22133
Sewage treatment facilities	068	22132
Not specified utilities	069	Part of 22
Unused codes	070-076	

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Information:	647-686	51
Newspaper publishers	647	51111
Publishing except newspapers and software	648	5111 exc. 51111
Software publishing	649	5112
Unused codes	650-656	
Motion pictures and video industries	657	5121
Unused code	658	
Sound recording industries	659	5122
Unused codes	660-666	
Radio and television broadcasting and cable	667	5131, 5132
Wired telecommunications carriers	668	51331
Other telecommunication services	669	5133 exc. 51331
Unused codes	670-676	
Libraries and archives	677	51412
Other information services	678	5141 exc. 51412
Data processing services	679	5142
Unused codes	680-686	
Finance, insurance, real estate and rental and leasing:	687-726	52, 53
Finance and insurance:	687-706	52
Banking and related activities	687	521, 52211, 52219
Savings institutions, including credit unions	688	52212, 52213
Nondepository credit and related activities	689	5222, 5223
Unused codes	690-696	
Securities, commodities, funds, trusts, and other financial investments	697	523, 525
Unused code	698	
Insurance carriers and related activities	699	524
Unused codes	700-706	
Real estate and rental and leasing:	707-726	53
Real estate	707	531
Automotive equipment rental and leasing	708	5321
Unused codes	709-716	
Video tape and disk rental	717	53223
Other consumer goods rental	718	53221, 53222, 53229, 5323
Commercial, industrial, and other intangible assets rental and leasing	719	5324, 533
Unused codes	720-726	
Professional, scientific, management, administrative, and waste management services:	727-785	54-56
Professional, scientific, and technical services:	727-756	54
Legal services	727	5411
Accounting, tax preparation, bookkeeping and payroll services	728	5412

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Professional, scientific, management, administrative, and waste management services—Con.		
Architectural, engineering, and related services	729	5413
Unused codes	730-736	
Specialized design services	737	5414
Computer systems design and related services	738	5415
Management, scientific and technical consulting services	739	5416
Unused codes	740-745	
Scientific research and development services	746	5417
Advertising and related services	747	5418
Veterinary services	748	54194
Other professional, scientific and technical services	749	5419 exc. 54194
Unused codes	750-756	
Management of companies and enterprises:	757	55
Management of companies and enterprises	757	55
Administrative and support and waste management services:	758-785	56
Employment services	758	5613
Business support services	759	5614
Unused codes	760-766	
Travel arrangement and reservation services	767	5615
Investigation and security services	768	5616
Services to buildings and dwellings	769	5617 exc. 56173
Unused codes	770-776	
Landscaping services	777	56173
Other administrative and other support services	778	5611, 5612, 5619
Waste management and remediation services	779	562
Unused codes	780-785	
Educational, health and social services:	786-855	61, 62
Educational services:	786-796	61
Elementary and secondary schools	786	6111
Colleges and universities, including junior colleges	787	6112, 6113
Business, technical, and trade schools and training	788	6114, 6115
Other schools, instruction, and educational services	789	6116, 6117
Unused codes	790-796	

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Educational, health and social services—Con.		
Health care and social assistance:	797-855	62
Offices of physicians	797	6211
Offices of dentists	798	6212
Office of chiropractors	799	62131
Unused codes	800-806	
Offices of optometrists	807	62132
Offices of other health practitioners	808	6213 exc. 62131, 62132
Outpatient care centers	809	6214
Unused codes	810-816	
Home health care services	817	6216
Other health care services	818	6215, 6219
Hospitals	819	622
Unused codes	820-826	
Nursing care facilities	827	6231
Unused code	828	
Residential care facilities, without nursing	829	6232, 6233, 6239
Unused codes	830-836	
Individual and family services	837	6241
Community food and housing, and emergency services	838	6242
Vocational rehabilitation services	839	6243
Unused codes	840-846	
Child day care services	847	6244
Unused codes	848-855	
Arts, entertainment, recreation, accommodation and food services:	856-876	71, 72
Arts, entertainment, and recreation:	856-865	71
Independent artists, performing arts, spectator sports, and related industries	856	711
Museums, art galleries, historical sites, and similar institutions	857	712
Bowling centers	858	71395
Other amusement, gambling, and recreation industries	859	713 exc. 71395
Unused codes	860-865	
Accommodation and food services:	866-876	72
Traveler accommodation	866	7211
Recreational vehicle parks and camps, and rooming and boarding houses	867	7212, 7213
Restaurants and other food services	868	722 exc. 7224
Drinking places, alcoholic beverages	869	7224
Unused codes	870-876	
Other services (except public administration):	877-936	81
Automotive repair and maintenance	877	8111 exc. 811192
Car washes	878	811192
Electronic and precision equipment repair and maintenance	879	8112
Unused codes	880-886	
Commercial and industrial machinery and equipment repair and maintenance	887	8113

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Other services (except public administration)—Con.		
Personal and household goods repair and maintenance	888	8114 exc. 81143
Footwear and leather goods repair	889	81143
Unused codes	890-896	
Barber shops	897	812111
Beauty salons	898	812112
Nail salons and other personal care services	899	812113, 81219
Unused codes	900-906	
Drycleaning and laundry services	907	8123
Funeral homes, cemeteries and crematories	908	8122
Other personal services	909	8129
Unused codes	910-915	
Religious organizations	916	8131
Civic, social, advocacy organizations, and grantmaking and giving services	917	8132, 8133, 8134
Labor unions	918	81393
Business, professional, political, and similar organizations	919	8139 exc. 81393
Unused codes	920-928	
Private households	929	814
Unused codes	930-936	
Public administration:	937-966	92 (exc. 928110)
Executive offices and legislative bodies	937	92111, 92112, 92114, pt. 92115
Public finance activities	938	92113
Other general government and support	939	92119
Unused codes	940-946	
Justice, public order, and safety activities	947	922, pt. 92115
Administration of human resource programs	948	923
Administration of environmental quality and housing programs	949	924, 925
Unused codes	950-956	
Administration of economic programs and space research	957	926, 927
Unused code	958	
National security and international affairs	959	928 (exc. 928110)
Unused codes	960-966	
Armed Forces:	967-991	928110
U.S. Army	967	928110
U.S. Air Force	968	928110
U.S. Navy	969	928110
Unused codes	970-976	
U.S. Marines	977	928110
U.S. Coast Guard	978	928110

NAICS Based Census 2000 Category Title	Census 2000	1997 NAICS Equivalent
Armed Forces—Con.		
U.S. Armed Forces, branch not specified	979	928110
Unused codes	980-986	
Military Reserves or National Guard	987	928110
Unused codes	988-991	
Unemployed, with no work experience since 1995	992	None

Note: The "Unused codes" are codes primarily used by occupation types.

LANGUAGE CODE LIST

Codes	Language
000-600	NOT IN UNIVERSE
601	JAMAICAN CREOLE
601	English creoles Belize, Guyanese
602	KRIO
603	HAWAIIAN PIDGIN
604	PIDGIN
605	GULLAH
606	SARAMACCA
607	GERMAN
607	Austrian
607	Swiss
608	PENNSYLVANIA DUTCH
609	YIDDISH
610	DUTCH
610	Flemish
611	AFRIKAANS
612	FRISIAN
613	LUXEMBOURGIAN
614	SWEDISH
615	DANISH
616	NORWEGIAN
617	ICELANDIC
618	FAROESE
619	ITALIAN
620	FRENCH
621	PROVENCAL
622	PATOIS
623	FRENCH CREOLE
623	Haitian Creole
624	CAJUN
625	SPANISH
626	CATALONIAN
627	LADINO
628	PACHUCO
629	PORTUGUESE
630	PAPIA MENTAE
631	RUMANIAN
631	Romanian
632	RHAETO-ROMANIC
632	Romansch
633	WELSH
634	BRETON
635	IRISH GAELIC
636	SCOTTIC GAELIC
637	GREEK
638	ALBANIAN
639	RUSSIAN
640	BIELORUSSIAN

Codes	Language
641	UKRAINIAN
642	CZECH
643	KASHUBIAN
644	LUSATIAN
644	Windish
645	POLISH
646	SLOVAK
647	BULGARIAN
648	MACEDONIAN
649	SERBOCROATIAN
649	Bosnian
649	Slavic
649	Yugoslav
650	CROATIAN
651	SERBIAN
652	SLOVENE
653	LITHUANIAN
654	LETTISH
654	Latvian
655	ARMENIAN
656	PERSIAN
656	Dari
656	Farsi
656	Pushto
657	PASHTO
657	Afghani
658	KURDISH
659	BALOCHI
660	TADZHIK
661	OSSETE
662	INDIA, n.e.c.
662	Asian Indian
662	Sanskrit
663	HINDI
664	BENGALI
665	PANJABI
665	Punjabi
666	MARATHI
666	Konkani
667	GUJARATHI
668	BIHARI
669	RAJASTHANI
669	Bhili
670	ORIYA
671	URDU
672	ASSAMESE
673	KASHMIRI
674	NEPALI
675	SINDHI

Codes	Language
676	PAKISTAN n.e.c.
677	SINHALESE
677	Maldivian
678	ROMANY
679	FINNISH
680	ESTONIAN
681	LAPP
682	HUNGARIAN
683	OTHER URALIC LANGUAGES
683	Mordvin
683	Samoyed
683	Yenisei
684	CHUVASH
685	KARAKALPAK
686	KAZAKH
687	KIRGHIZ
688	KARACHAY
688	Tatar
689	UIGHUR
689	Uzbek
690	AZERBAIJANI
691	TURKISH
692	TURKMEN
693	YAKUT
694	MONGOLIAN
695	TUNGUS
696	CAUCASIAN
696	Circassian
696	Georgian
697	BASQUE
698	DRAVIDIAN
698	Coorgi
698	Tulu
699	BRAHUI
700	GONDI
701	TELUGU
702	KANNADA
703	MALAYALAM
704	TAMIL
705	KURUKH
706	MUNDA
707	BURUSHASKI
708	CHINESE
708	Min
709	HAKKA
710	KAN, HSIANG
711	CANTONESE
711	Toishan
712	MANDARIN

Codes	Language
713	FUCHOW
714	FORMOSAN
714	Fukien
714	Hokkien
714	Min Nan
714	Taiwanese
715	WU
715	Shanghainese
716	TIBETAN
717	BURMESE
718	KAREN
719	KACHIN
720	THAI
721	MIAO-YAO, MIEN
721	Mien
722	MIAO, HMONG
722	Hmong
723	JAPANESE
723	Ainu
724	KOREAN
725	LAOTIAN
726	MON-KHMER, CAMBODIAN
726	Cambodian
726	Khmer
727	SIBERIAN LANGUAGES, n.e.c.
728	VIETNAMESE
729	MUONG
730	BUGINESE
731	MOLUCCAN
732	INDONESIAN
733	ACHINESE
734	BALINESE
735	CHAM
736	JAVANESE
737	MADURESE
738	MALAGASY
739	MALAY
739	Bahasa
740	MINANGKABAU
741	SUNDANESE
742	TAGALOG
742	Filipino
743	BISAYAN
743	Ilongo
743	Visayan
744	SEBUANO
744	Cebuano
745	PANGASINAN
746	ILOCANO

Codes	Language
746	Igorot
747	BIKOL
748	PAMPANGAN
749	GORONTALO
750	MICRONESIAN
751	CAROLINIAN
752	CHAMORRO
752	Guamanian
753	GILBERTESE
754	KUSAIEAN
754	Kosraean
755	MARSHALLESE
756	MOKILESE
757	MORTLOCKESE
758	NAURUAN
759	PALAU
760	PONAPEAN
761	TRUKESE
761	Chuukese
762	ULITHEAN
763	WOLEAI-ULITHI
764	YAPESE
765	MELANESIAN
766	POLYNESIAN
767	SAMOAN
768	TONGAN
769	NIUEAN
770	TOKELAUAN
771	FIJIAN
772	MARQUESAN
772	Tahitan
773	RAROTONGAN
774	MAORI
775	NUKUORO
776	HAWAIIAN
777	ARABIC
778	HEBREW
779	SYRIAC
779	Aramaic
779	Assyrian
779	Chaldean
780	AMHARIC
780	Tigrigna
781	BERBER
782	CHADIC
782	Hausa

Codes	Language
783	CUSHITE
783	Oromo
783	Somali
784	SUDANIC
784	Dinka
785	NILOTIC
785	Acholi
785	Luo
785	Nuer
786	NILO-HAMITIC
786	Bari
786	Masai
787	NUBIAN
788	SAHARAN
789	NILO-SAHARAN
789	Fur
789	Songhai
790	KHOISAN
790	Bushman
791	SWAHILI
792	BANTU
792	Bembe
792	Kikuyu
792	Kinyarwanda
792	Luganda
792	Ndebele
792	Shona
792	Tonga
792	Xhosa
792	Zulu
793	MANDE
793	Kpelle
793	Mandingo
793	Mende
794	FULANI
794	Temne
794	Wolof
795	GUR
796	KRU, IBO, YORUBA
796	Akan
796	Ashanti
796	Ewe
796	Fanti
796	Ga
796	Ibo
796	Igbo
796	Nigerian
796	Twi
796	Yoruba

Codes	Language
797	EFIK
797	Ibibio
798	MBUM AND RELATED
799	AFRICAN, not further specified
800	ALEUT
801	PACIFIC GULF YUPIK
802	ESKIMO
803	INUPIK
803	Inupiaq
804	SAINT LAWRENCE ISLAND YUPIK
804	Siberian Yupik
805	YUPIK
806	ALGONQUIAN
807	ARAPAHO
808	ATSINA
808	Gros Ventre
809	BLACKFOOT
810	CHEYENNE
811	CREE
812	DELAWARE
812	Lenape
813	FOX
813	Mesquakie
814	KICKAPOO
815	MENOMINI
816	FRENCH CREE
816	Mitchif
817	MIAMI
818	MICMAC
819	OJIBWA
819	Chippewa
820	OTTAWA
821	PASSAMAQUODDY
822	PENOBSCOT
823	ABNAKI
824	POTAWATOMI
825	SHAWNEE
826	WIYOT
827	YUROK
828	KUTENAI
829	MAKAH
830	KWAKIUTL
830	Quileute
831-832	NOOTKA
833	LOWER CHEHALIS
834	UPPER CHEHALIS
835	CLALLAM
836	COEUR D'ALENE

Codes	Language
837	COLUMBIA
837	Wenatchee
838	COWLITZ
839	SALISH
839	Lummi
840	NOOTSACK
841	OKANOGAN
841	Colville
842	PUGET SOUND SALISH
842	Muckleshoot
842	Nisqualli
842	Puyallup
842	Suquamish
843	QUINAULT
844	TILLAMOOK
845	TWANA
846	HAIDA
847	ATHAPASCAN
847	Athabascan
848	AHTENA
849	HAN
850	INGALIT
851	KOYUKON
852	KUCHIN
852	Gwichin
853	UPPER KUSKOKWIM
854	TANAINA
855	TANANA
856	TANACROSS
857	UPPER TANANA
858	TUTCHONE
859	CHASTA COSTA
860	HUPA
861	OTHER ATHAPASCAN-EYAK LANGUAGES
861	Cahto
862	APACHE
863	KIOWA
864	NAVAHO
864	Navajo
865	EYAK
866	TLINGIT
867	MOUNTAIN MAIDU
867	Maidu
868	NORTHWEST MAIDU
868	Concow
869	SOUTHERN MAIDU
870	COAST MIWOK
871	PLAINS MIWOK

Codes	Language
872	SIERRA MIWOK
872	Miwok
873	NOMLAKI
874	PATWIN
875	WINTUN
876	FOOTHILL NORTH YOKUTS
877	TACHI
878	SANTIAM
879	SIUSLAW
880	KLAMATH
880	Modoc
881	NEZ PERCE
882	SAHAPTIAN
882	Umatilla
882	Warm Springs
882	Yakama
883	UPPER CHINOOK
883	Chinook
883	Wasco
884	TSIMSHIAN
885	ACHUMAWI
885	Pit River
886	ATSUGEWI
887	KAROK
888	POMO
889	SHASTAN
890	WASHO
891	UP RIVER YUMAN
892	COCOMARICOPA
893	MOHAVE
894	YUMA
894	Quechan
895	DIEGUENO
896	DELTA RIVER YUMAN
896	Cocopah
897	UPLAND YUMAN
898	HAVASUPAI
899	WALAPAI
899	Hualapai
900	YAVAPAI
901	CHUMASH
902	TONKAWA
903	YUCHI
904	CROW
905	HIDATSA
906	MANDAN

Codes	Language
907	DAKOTA
907	Assiniboine
907	Lakota
907	Oglala
907	Sioux
908	CHIWERE
908	Iowa
909	WINNEBAGO
909	Ho Chunk
910	KANSA
911	OMAHA
912	OSAGE
913	PONCA
914	QUAPAW
914	Arkansas
915	ALABAMA
916	CHOCTAW
916	Chickasaw
917	MIKASUKI
917	Miccosukee
918	HICHITA
919	KOASATI
919	Coushatta
920	MUSKOGEE
920	Creek
920	Seminole
921	CHETEMACHA
922	YUKI
923	WAPPO
924	KERES
924	Acoma
924	Keresan
924	Laguna
924	Zia
925	IROQUOIS
926	MOHAWK
927	ONEIDA
928	ONONDAGA
929	CAYUGA
930	SENECA
931	TUSCARORA
932	WYANDOT
932	Huron
933	CHEROKEE
934	ARIKARA
935	CADDO
936	PAWNEE
937	WICHITA

Codes	Language
938	COMANCHE
939	MONO
940	PAIUTE
941	NORTHERN PAIUTE
941	Bannock
942	SOUTHERN PAIUTE
943	CHEMEHUEVI
944	KAWAIISU
945	UTE
946	SHOSHONI
947	PANAMINT
948	HOPI
949	CAHUILLA
950	CUPENO
951	LUISENO
952	SERRANO
953	TUBATULABAL
954	PIMA
954	Papago
954	Tohono O'Odham
955	YAQUI
956	AZTECAN
956	Mexicano
956	Nahuatl
957-958	SONORAN, n.e.c
957	Huichole
957	Tarahumara
959	PICURIS
959	Taos
960	TIWA
960	Isleta
961	SANDIA
962	TEWA
962	Hopi-Tewa
962	San Juan
962	Santa Clara
963	TOWA
964	ZUNI
965	CHINOOK JARGON
966	AMERICAN INDIAN
967	MISUMALPAN
967	Miskito
968	MAYAN LANGUAGES
968	Aguacateco
968	Canjobal
968	Guatemalan
968	Mam
968	Maya
968	Quiche

Codes	Language
969	TARASCAN
970	MAPUCHE
971	OTO-MANGUEN
971	Mixtec
971	Otomi
971	Zapoteca
972	QUECHUA
973	AYMARA
974	ARAWAKIAN
974	Carib
974	Garifuna
975	CHIBCHAN
975	Cuna
976	TUPI-GUARANI
976	Guarani
977	JICARILLA
978	CHIRICAHUA
978	Mescalero Apache
979	SAN CARLOS
979	San Carlos Apache
979	White Mountain
980	KIOWA-APACHE
981	KALISPEL
982	SPOKANE
983-998	LANGUAGE SPECIFIED, NOT LISTED
999	NOT REPORTED

OCCUPATION DETAILED CODE LIST

Decennial 2000 SOC and Census 2000 sorted by Census 2000 SOC equivalent

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Management, professional and related occupations:	001-359	11-0000 through 29-0000
Management, business and financial operations occupations:	001-099	11-0000 and 13-0000
Management occupations:	001-049	11-0000
Chief executives	001	11-1011
General and operations managers	002	11-1021
Legislators	003	11-1031
Advertising and promotions managers	004	11-2011
Marketing and sales managers	005	11-2020
Public relations managers	006	11-2031
Unused codes	007-009	
Administrative services managers	010	11-3011
Computer and Information Systems managers	011	11-3021
Financial managers	012	11-3031
Human resources managers	013	11-3040
Industrial production managers	014	11-3051
Purchasing managers	015	11-3061
Transportation, storage, and distribution managers	016	11-3071
Unused codes	017-019	
Farm, ranch, and other agricultural managers	020	11-9011
Farmers and Ranchers	021	11-9012
Construction managers	022	11-9021
Education administrators	023	11-9030
Unused codes	024-029	
Engineering managers	030	11-9041
Food service managers	031	11-9051
Funeral directors	032	11-9061
Gaming managers	033	11-9071
Lodging managers	034	11-9081
Medical and health services managers	035	11-9111
Natural sciences managers	036	11-9121
Unused codes	037-039	
Postmasters and mail superintendents	040	11-9131
Property, real estate, and community association managers	041	11-9141
Social and community service managers	042	11-9151
Managers, all other	043	11-9199
Unused codes	044-049	
Business and financial operations occupations:	050-099	13-0000
Agents and business managers of artists, performers, and athletes	050	13-1011
Purchasing agents and buyers, farm products	051	13-1021

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Management, professional and related occupations—Con.		
Management, business and financial operations occupations—Con.		
Business and financial operations occupations—Con.		
Wholesale and retail buyers, except farm products	052	13-1022
Purchasing agents, except wholesale, retail, and farm products	053	13-1023
Claims adjusters, appraisers, examiners, and investigators	054	13-1030
Unused codes	055	
Compliance officers, except agriculture, construction, health and safety, and transportation	056	13-1041
Unused codes	057-059	
Cost estimators	060	13-1051
Unused codes	061	
Human resources, training, and labor relations specialists	062	13-1070
Unused codes	063-069	
Logisticians	070	13-1081
Management analysts	071	13-1111
Meeting and convention planners	072	13-1121
Other business operations specialists	073	13-11XX
Unused codes	074-079	
Accountants and auditors	080	13-2011
Appraisers and assessors of real estate	081	13-2021
Budget analysts	082	13-2031
Credit analysts	083	13-2041
Financial analysts	084	13-2051
Personal financial advisors	085	13-2052
Insurance underwriters	086	13-2053
Unused codes	087-089	
Financial examiners	090	13-2061
Loan counselors and officers	091	13-2070
Unused codes	092	
Tax examiners, collectors, and revenue agents	093	13-2081
Tax preparers	094	13-2082
Financial specialists, all other	095	13-2099
Unused codes	096-099	
Professional and related occupations:	100-359	15-0000 through 29-0000
Computer and mathematical science occupations:	100-129	15-0000
Computer scientists and systems analysts	100	15-10XX
Computer programmers	101	15-1021
Computer software engineers	102	15-1030
Unused codes	103	
Computer support specialists	104	15-1041
Unused codes	105	

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Management, professional and related occupations—Con.		
Professional and related occupations—Con.		
Computer and mathematical science occupations—Con.		
Database administrators	106	15-1061
Unused codes	107-109	
Network and computer systems administrators	110	15-1071
Network systems and data communications analysts	111	15-1081
Unused codes	112-119	
Actuaries	120	15-2011
Mathematicians	121	15-2021
Operations research analysts	122	15-2031
Statisticians	123	15-2041
Miscellaneous mathematical science occupations	124	15-2090
Unused codes	125-129	
Architecture and engineering occupations:	130-159	17-0000
Architects, except naval	130	17-1010
Surveyors, cartographers, and photogrammetrists	131	17-1020
Aerospace engineers	132	17-2011
Agricultural engineers	133	17-2021
Biomedical engineers	134	17-2031
Chemical engineers	135	17-2041
Civil engineers	136	17-2051
Unused codes	137-139	
Computer hardware engineers	140	17-2061
Electrical and electronics engineers	141	17-2070
Environmental engineers	142	17-2081
Industrial engineers, including health and safety	143	17-2110
Marine engineers and naval architects	144	17-2121
Materials engineers	145	17-2131
Mechanical engineers	146	17-2141
Unused codes	147-149	
Mining and geological engineers, including mining safety engineers	150	17-2151
Nuclear engineers	151	17-2161
Petroleum engineers	152	17-2171
Engineers, all other	153	17-2199
Drafters	154	17-3010
Engineering technicians, except drafters	155	17-3020
Surveying and mapping technicians	156	17-3031
Unused codes	157-159	
Life, physical, and social science occupations:	160-199	19-0000
Agricultural and food scientists	160	19-1010
Biological scientists	161	19-1020
Unused codes	162-163	

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Management, professional and related occupations—Con.		
Professional and related occupations—Con.		
Life, physical, and social science occupations—Con.		
Conservation scientists and foresters	164	19-1030
Medical scientists	165	19-1040
Unused codes	166-169	
Astronomers and physicists	170	19-2010
Atmospheric and space scientists	171	19-2021
Chemists and materials scientists	172	19-2030
Unused codes	173	
Environmental scientists and geoscientists	174	19-2040
Unused codes	175	
Physical scientists, all other	176	19-2099
Unused codes	177-179	
Economists	180	19-3011
Market and survey researchers	181	19-3020
Psychologists	182	19-3030
Sociologists	183	19-3041
Urban and regional planners	184	19-3051
Unused codes	185	
Miscellaneous social scientists and related workers	186	19-3090
Unused codes	187-189	
Agricultural and food science technicians	190	19-4011
Biological technicians	191	19-4021
Chemical technicians	192	19-4031
Geological and petroleum technicians	193	19-4041
Nuclear technicians	194	19-4051
Unused codes	195	
Other life, physical, and social science technicians	196	19-40XX
Unused codes	197-199	
Community and social services occupations:	200-209	21-0000
Counselors	200	21-1010
Social workers	201	21-1020
Miscellaneous community and social service specialists	202	21-1090
Unused codes	203	
Clergy	204	21-2011
Directors, religious activities and education	205	21-2021
Religious workers, all other	206	21-2099
Unused codes	207-209	
Legal occupations:	210-219	23-0000
Lawyers	210	23-1011
Judges, magistrates, and other judicial workers	211	23-1020
Unused codes	212-213	
Paralegals and legal assistants	214	23-2011
Miscellaneous legal support workers	215	23-2090
Unused codes	216-219	

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Management, professional and related occupations—Con.		
Professional and related occupations—Con.		
Education, training, and library occupations:	220-259	25-0000
Postsecondary teachers	220	25-1000
Unused codes	221-229	
Preschool and kindergarten teachers	230	25-2010
Elementary and middle school teachers	231	25-2020
Secondary school teachers	232	25-2030
Special education teachers	233	25-2040
Other teachers and instructors	234	25-3000
Unused codes	235-239	
Archivists, curators, and museum technicians	240	25-4010
Unused codes	241-242	
Librarians	243	25-4021
Library technicians	244	25-4031
Unused codes	245-253	
Teacher assistants	254	25-9041
Other education, training, and library workers	255	25-90XX
Unused codes	256-259	
Arts, design, entertainment, sports, and media occupations:	260-299	27-0000
Artists and related workers	260	27-1010
Unused codes	261-262	
Designers	263	27-1020
Unused codes	264-269	
Actors	270	27-2011
Producers and directors	271	27-2012
Athletes, coaches, umpires, and related workers	272	27-2020
Unused codes	273	
Dancers and choreographers	274	27-2030
Musicians, singers, and related workers	275	27-2040
Entertainers and performers, sports and related workers, all other	276	27-2099
Unused codes	277-279	
Announcers	280	27-3010
News analysts, reporters and correspondents	281	27-3020
Public relations specialists	282	27-3031
Editors	283	27-3041
Technical writers	284	27-3042
Writers and authors	285	27-3043
Miscellaneous media and communication workers	286	27-3090
Unused codes	287-289	
Broadcast and sound engineering technicians and radio operators	290	27-4010
Photographers	291	27-4021

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Management, professional and related occupations—Con.		
Professional and related occupations—Con.		
Arts, design, entertainment, sports, and media occupations—Con.		
Television, video, and motion picture camera operators and editors	292	27-4030
Unused codes	293-295	
Media and communication equipment workers, all other	296	27-4099
Unused codes	297-299	
Healthcare practitioner and technical occupations:	300-359	29-0000
Chiropractors	300	29-1011
Dentists	301	29-1020
Unused codes	302	
Dietitians and nutritionists	303	29-1031
Optometrists	304	29-1041
Pharmacists	305	29-1051
Physicians and surgeons	306	29-1060
Unused codes	307-310	
Physician assistants	311	29-1071
Podiatrists	312	29-1081
Registered nurses	313	29-1111
Audiologists	314	29-1121
Occupational therapists	315	29-1122
Physical therapists	316	29-1123
Unused codes	317-319	
Radiation therapists	320	29-1124
Recreational therapists	321	29-1125
Respiratory therapists	322	29-1126
Speech-language pathologists	323	29-1127
Therapists, all other	324	29-1129
Veterinarians	325	29-1131
Health diagnosing and treating practitioners, all other	326	29-1199
Unused codes	327-329	
Clinical laboratory technologists and technicians	330	29-2010
Dental hygienists	331	29-2021
Diagnostic related technologists and technicians	332	29-2030
Unused codes	333-339	
Emergency medical technicians and paramedics	340	29-2041
Health diagnosing and treating practitioner support technicians	341	29-2050
Unused codes	342-349	
Licensed practical and licensed vocational nurses	350	29-2061

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Management, professional and related occupations—Con.		
Professional and related occupations—Con.		
Healthcare practitioner and technical occupations—Con.		
Medical records and health information technicians	351	29-2071
Opticians, dispensing	352	29-2081
Miscellaneous health technologists and technicians	353	29-2090
Other healthcare practitioners and technical occupations	354	29-9000
Unused codes	355-359	
Service occupations:	360-469	31-0000 through 39-0000
Healthcare support occupations:	360-369	31-0000
Nursing, psychiatric, and home health aides	360	31-1010
Occupational therapist assistants and aides	361	31-2010
Physical therapist assistants and aides	362	31-2020
Massage therapists	363	31-9011
Dental assistants	364	31-9091
Medical assistants and other healthcare support occupations	365	31-909X
Unused codes	366-369	
Protective service occupations:	370-399	33-0000
First-line supervisors/managers of correctional officers	370	33-1011
First-line supervisors/managers of police and detectives	371	33-1012
First-line supervisors/managers of fire fighting and prevention workers	372	33-1021
Supervisors, protective service workers, all other	373	33-1099
Fire fighters	374	33-2011
Fire inspectors	375	33-2020
Unused codes	376-379	
Bailiffs, correctional officers, and jailers	380	33-3010
Unused codes	381	
Detectives and criminal investigators	382	33-3021
Fish and game wardens	383	33-3031
Parking enforcement workers	384	33-3041
Police and sheriff's patrol officers	385	33-3051
Transit and railroad police	386	33-3052
Unused codes	387-389	
Animal control workers	390	33-9011
Private detectives and investigators	391	33-9021
Security guards and gaming surveillance officers	392	33-9030
Unused codes	393	
Crossing guards	394	33-9091
Lifeguards and other protective service workers	395	33-909X
Unused codes	396-399	

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Service occupations—Con.		
Food preparation and serving related occupations:	400-419	35-0000
Chefs and head cooks	400	35-1011
First-line supervisors/managers of food preparation and serving workers	401	35-1012
Cooks	402	35-2010
Food preparation workers	403	35-2021
Bartenders	404	35-3011
Combined food preparation and serving workers, including fast food	405	35-3021
Counter attendants, cafeteria, food concession, and coffee shop	406	35-3022
Unused codes	407-410	
Waiters and waitresses	411	35-3031
Food servers, nonrestaurant	412	35-3041
Dining room and cafeteria attendants and bartender helpers	413	35-9011
Dishwashers	414	35-9021
Hosts and hostesses, restaurant, lounge, and coffee shop	415	35-9031
Food preparation and serving related workers, all other	416	35-9099
Unused codes	417-419	
Building and grounds cleaning and maintenance occupations:	420-429	37-0000
First-line supervisors/managers of housekeeping and janitorial workers	420	37-1011
First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	421	37-1012
Janitors and building cleaners	422	37-201X
Maids and housekeeping cleaners	423	37-2012
Pest control workers	424	37-2021
Grounds maintenance workers	425	37-3010
Unused codes	426-429	
Personal care and service occupations:	430-469	39-0000
First-line supervisors/managers of gaming workers	430	39-1010
Unused codes	431	
First-line supervisors/managers of personal service workers	432	39-1021
Unused codes	433	
Animal trainers	434	39-2011
Nonfarm animal caretakers	435	39-2021
Unused codes	436-439	
Gaming services workers	440	39-3010
Motion picture projectionists	441	39-3021
Ushers, lobby attendants, and ticket takers	442	39-3031

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Service occupations—Con.		
Personal care and service occupations—Con.		
Miscellaneous entertainment attendants and related workers	443	39-3090
Unused codes	444-445	
Funeral service workers	446	39-4000
Unused codes	447-449	
Barbers	450	39-5011
Hairdressers, hairstylists, and cosmetologists	451	39-5012
Miscellaneous personal appearance workers	452	39-5090
Baggage porters, bellhops, and concierges	453	39-6010
Tour and travel guides	454	39-6020
Transportation attendants	455	39-6030
Unused codes	456-459	
Child care workers	460	39-9011
Personal and home care aides	461	39-9021
Recreation and fitness workers	462	39-9030
Unused codes	463	
Residential advisors	464	39-9041
Personal care and service workers, all other	465	39-9099
Unused codes	466-469	
Sales and office occupations:	470-599	41-0000 through 43-0000
Sales and related occupations:	470-499	41-0000
First-line supervisors/managers of retail sales workers	470	41-1011
First-line supervisors/managers of non-retail sales workers	471	41-1012
Cashiers	472	41-2010
Unused codes	473	
Counter and rental clerks	474	41-2021
Parts salespersons	475	41-2022
Retail salespersons	476	41-2031
Unused codes	477-479	
Advertising sales agents	480	41-3011
Insurance sales agents	481	41-3021
Securities, commodities, and financial services sales agents	482	41-3031
Travel agents	483	41-3041
Sales representatives, services, all other	484	41-3099
Sales representatives, wholesale and manufacturing	485	41-4010
Unused codes	486-489	
Models, demonstrators, and product promoters	490	41-9010
Unused codes	491	
Real estate brokers and sales agents	492	41-9020
Sales engineers	493	41-9031
Telemarketers	494	41-9041

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Sales and office occupations—Con.		
Sales and related occupations—Con.		
Door-to-door sales workers, news and street vendors, and related workers	495	41-9091
Sales and related workers, all other	496	41-9099
Unused codes	497-499	
Office and administrative support occupations:	500-599	43-0000
First-line supervisors/managers of office and administrative support workers	500	43-1011
Switchboard operators, including answering service	501	43-2011
Telephone operators	502	43-2021
Communications equipment operators, all other	503	43-2099
Unused codes	504-509	
Bill and account collectors	510	43-3011
Billing and posting clerks and machine operators	511	43-3021
Bookkeeping, accounting, and auditing clerks	512	43-3031
Gaming cage workers	513	43-3041
Payroll and timekeeping clerks	514	43-3051
Procurement clerks	515	43-3061
Tellers	516	43-3071
Unused codes	517-519	
Brokerage clerks	520	43-4011
Correspondence clerks	521	43-4021
Court, municipal, and license clerks	522	43-4031
Credit authorizers, checkers, and clerks	523	43-4041
Customer service representatives	524	43-4051
Eligibility interviewers, government programs	525	43-4061
File clerks	526	43-4071
Unused codes	527-529	
Hotel, motel, and resort desk clerks	530	43-4081
Interviewers, except eligibility and loan	531	43-4111
Library assistants, clerical	532	43-4121
Loan interviewers and clerks	533	43-4131
New accounts clerks	534	43-4141
Order clerks	535	43-4151
Human resources assistants, except payroll and timekeeping	536	43-4161
Unused codes	537-539	
Receptionists and information clerks	540	43-4171
Reservation and transportation ticket agents and travel clerks	541	43-4181
Information and record clerks, all other	542	43-4199
Unused codes	543-549	
Cargo and freight agents	550	43-5011
Couriers and messengers	551	43-5021
Dispatchers	552	43-5030

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Sales and office occupations—Con.		
Sales and related occupations—Con.		
Office and administrative support occupations—Con.		
Meter readers, utilities	553	43-5041
Postal service clerks	554	43-5051
Postal service mail carriers	555	43-5052
Postal service mail sorters, processors, and processing machine operators	556	43-5053
Unused codes	557-559	
Production, planning, and expediting clerks	560	43-5061
Shipping, receiving, and traffic clerks	561	43-5071
Stock clerks and order fillers	562	43-5081
Weighers, measurers, checkers, and samplers, recordkeeping	563	43-5111
Unused codes	564-569	
Secretaries and administrative assistants	570	43-6010
Unused codes	571-579	
Computer operators	580	43-9011
Data entry keyers	581	43-9021
Word processors and typists	582	43-9022
Desktop publishers	583	43-9031
Insurance claims and policy processing clerks	584	43-9041
Mail clerks and mail machine operators, except postal service	585	43-9051
Office clerks, general	586	43-9061
Unused codes	587-589	
Office machine operators, except computer	590	43-9071
Proofreaders and copy markers	591	43-9081
Statistical assistants	592	43-9111
Office and administrative support workers, all other	593	43-9199
Unused codes	594-599	
Farming, fishing, and forestry occupations:	600-619	45-0000
First-line supervisors/managers of farming, fishing, and forestry workers	600	45-1010
Agricultural inspectors	601	45-2011
Animal breeders	602	45-2021
Unused codes	603	
Graders and sorters, agricultural products	604	45-2041
Miscellaneous agricultural workers	605	45-2090
Unused codes	606-609	
Fishers and related fishing workers	610	45-3011
Hunters and trappers	611	45-3021
Forest and conservation workers	612	45-4011
Logging workers	613	45-4020
Unused codes	614-619	

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Construction, extraction and maintenance occupations:	620-769	47-0000 through 49-0000
Construction and extraction occupations:	620-699	47-0000
First-line supervisors/managers of construction trades and extraction workers	620	47-1011
Boilermakers	621	47-2011
Brickmasons, blockmasons, and stonemasons	622	47-2020
Carpenters	623	47-2031
Carpet, floor, and tile installers and finishers	624	47-2040
Cement masons, concrete finishers, and terrazzo workers	625	47-2050
Construction laborers	626	47-2061
Unused codes	627-629	
Paving, surfacing, and tamping equipment operators	630	47-2071
Pile-driver operators	631	47-2072
Operating engineers and other construction equipment operators	632	47-2073
Drywall installers, ceiling tile installers, and tapers	633	47-2080
Unused codes	634	
Electricians	635	47-2111
Glaziers	636	47-2121
Unused codes	637-639	
Insulation workers	640	47-2130
Unused codes	641	
Painters, construction and maintenance	642	47-2141
Paperhangers	643	47-2142
Pipelayers, plumbers, pipefitters, and steamfitters	644	47-2150
Unused codes	645	
Plasterers and stucco masons	646	47-2161
Unused codes	647-649	
Reinforcing iron and rebar workers	650	47-2171
Roofers	651	47-2181
Sheet metal workers	652	47-2211
Structural iron and steel workers	653	47-2221
Unused codes	654-659	
Helpers, construction trades	660	47-3010
Unused codes	661-665	
Construction and building inspectors	666	47-4011
Unused codes	667-669	
Elevator installers and repairers	670	47-4021
Fence erectors	671	47-4031
Hazardous materials removal workers	672	47-4041
Highway maintenance workers	673	47-4051
Rail-track laying and maintenance equipment operators	674	47-4061

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Construction, extraction and maintenance occupations—Con.	620-769	47-0000 through 49-0000
Construction and extraction occupations—Con.		
Septic tank servicers and sewer pipe cleaners	675	47-4071
Miscellaneous construction and related workers	676	47-4090
Unused codes	677-679	
Derrick, rotary drill, and service unit operators, oil, gas, and mining	680	47-5010
Unused codes	681	
Earth drillers, except oil and gas	682	47-5021
Explosives workers, ordnance handling experts, and blasters	683	47-5031
Mining machine operators	684	47-5040
Unused codes	685-690	
Roof bolters, mining	691	47-5061
Roustabouts, oil and gas	692	47-5071
Helpers—extraction workers	693	47-5081
Other extraction workers	694	47-50XX
Unused codes	695-699	
Installation, maintenance, and repair occupations:	700-769	49-0000
First-line supervisors/managers of mechanics, installers, and repairers	700	49-1011
Computer, automated teller, and office machine repairers	701	49-2011
Radio and telecommunications equipment installers and repairers	702	49-2020
Avionics technicians	703	49-2091
Electric motor, power tool, and related repairers	704	49-2092
Electrical and electronics installers and repairers, transportation equipment	705	49-2093
Unused codes	706-709	
Electrical and electronics repairers, industrial and utility	710	49-209X
Electronic equipment installers and repairers, motor vehicles	711	49-2096
Electronic home entertainment equipment installers and repairers	712	49-2097
Security and fire alarm systems installers	713	49-2098
Aircraft mechanics and service technicians	714	49-3011
Automotive body and related repairers	715	49-3021
Automotive glass installers and repairers	716	49-3022
Unused codes	717-719	
Automotive service technicians and mechanics	720	49-3023
Bus and truck mechanics and diesel engine specialists	721	49-3031

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Construction, extraction and maintenance occupations—Con.		
Installation, maintenance, and repair occupations—Con.		
Heavy vehicle and mobile equipment service technicians and mechanics	722	49-3040
Unused codes	723	
Small engine mechanics	724	49-3050
Unused codes	725	
Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers	726	49-3090
Unused codes	727-729	
Control and valve installers and repairers	730	49-9010
Heating, air conditioning, and refrigeration mechanics and installers	731	49-9021
Home appliance repairers	732	49-9031
Industrial and refractory machinery mechanics	733	49-904X
Maintenance and repair workers, general	734	49-9042
Maintenance workers, machinery	735	49-9043
Millwrights	736	49-9044
Unused codes	737-740	
Electrical power-line installers and repairers	741	49-9051
Telecommunications line installers and repairers	742	49-9052
Precision instrument and equipment repairers	743	49-9060
Unused codes	744-750	
Coin, vending, and amusement machine servicers and repairers	751	49-9091
Commercial divers	752	49-9092
Unused codes	753	
Locksmiths and safe repairers	754	49-9094
Manufactured building and mobile home installers	755	49-9095
Riggers	756	49-9096
Unused codes	757-759	
Signal and track switch repairers	760	49-9097
Helpers—installation, maintenance, and repair workers	761	49-9098
Other installation, maintenance, and repair workers	762	49-909X
Unused codes	763-769	
Production, transportation and material moving occupations:	770-979	51-0000 through 53-0000
Production occupations:	770-899	51-0000
First-line supervisors/managers of production and operating workers	770	51-1011
Aircraft structure, surfaces, rigging, and systems assemblers	771	51-2011

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Production, transportation and material moving occupations—Con.		
Production occupations—Con.		
Electrical, electronics, and electromechanical assemblers	772	51-2020
Engine and other machine assemblers	773	51-2031
Structural metal fabricators and fitters	774	51-2041
Miscellaneous assemblers and fabricators	775	51-2090
Unused codes	776-779	
Bakers	780	51-3011
Butchers and other meat, poultry, and fish processing workers	781	51-3020
Unused codes	782	
Food and tobacco roasting, baking, and drying machine operators and tenders	783	51-3091
Food batchmakers	784	51-3092
Food cooking machine operators and tenders	785	51-3093
Unused codes	786-789	
Computer control programmers and operators	790	51-4010
Unused codes	791	
Extruding and drawing machine setters, operators, and tenders, metal and plastic	792	51-4021
Forging machine setters, operators, and tenders, metal and plastic	793	51-4022
Rolling machine setters, operators, and tenders, metal and plastic	794	51-4023
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	795	51-4031
Drilling and boring machine tool setters, operators, and tenders, metal and plastic	796	51-4032
Unused codes	797-799	
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	800	51-4033
Lathe and turning machine tool setters, operators, and tenders, metal and plastic	801	51-4034
Milling and planing machine setters, operators, and tenders, metal and plastic	802	51-4035
Machinists	803	51-4041
Metal furnace and kiln operators and tenders	804	51-4050
Unused codes	805	
Model makers and patternmakers, metal and plastic	806	51-4060
Unused codes	807-809	
Molders and molding machine setters, operators, and tenders, metal and plastic	810	51-4070
Unused codes	811	

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Production, transportation and material moving occupations—Con.		
Production occupations—Con.		
Multiple machine tool setters, operators, and tenders, metal and plastic	812	51-4081
Tool and die makers	813	51-4111
Welding, soldering, and brazing workers	814	51-4120
Heat treating equipment setters, operators, and tenders, metal and plastic	815	51-4191
Lay-out workers, metal and plastic	816	51-4192
Unused codes	817-819	
Plating and coating machine setters, operators, and tenders, metal and plastic	820	51-4193
Tool grinders, filers, and sharpeners	821	51-4194
Metalworkers and plastic workers, all other	822	51-4199
Bookbinders and bindery workers	823	51-5010
Job printers	824	51-5021
Prepress technicians and workers	825	51-5022
Printing machine operators	826	51-5023
Unused codes	827-829	
Laundry and dry-cleaning workers	830	51-6011
Pressers, textile, garment, and related materials	831	51-6021
Sewing machine operators	832	51-6031
Shoe and leather workers and repairers	833	51-6041
Shoe machine operators and tenders	834	51-6042
Tailors, dressmakers, and sewers	835	51-6050
Textile bleaching and dyeing machine operators and tenders	836	51-6061
Unused codes	837-839	
Textile cutting machine setters, operators, and tenders	840	51-6062
Textile knitting and weaving machine setters, operators, and tenders	841	51-6063
Textile winding, twisting, and drawing out machine setters, operators, and tenders	842	51-6064
Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	843	51-6091
Fabric and apparel patternmakers	844	51-6092
Upholsterers	845	51-6093
Textile, apparel, and furnishings workers, all other	846	51-6099
Unused codes	847-849	
Cabinetmakers and bench carpenters	850	51-7011
Furniture finishers	851	51-7021
Model makers and patternmakers, wood	852	51-7030
Sawing machine setters, operators, and tenders, wood	853	51-7041

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Production, transportation and material moving occupations—Con.		
Production occupations—Con.		
Woodworking machine setters, operators, and tenders, except sawing	854	51-7042
Woodworkers, all other	855	51-7099
Unused codes	856-859	
Power plant operators, distributors, and dispatchers	860	51-8010
Stationary engineers and boiler operators	861	51-8021
Water and liquid waste treatment plant and system operators	862	51-8031
Miscellaneous plant and system operators	863	51-8090
Chemical processing machine setters, operators, and tenders	864	51-9010
Crushing, grinding, polishing, mixing, and blending workers	865	51-9020
Unused codes	866-870	
Cutting workers	871	51-9030
Extruding, forming, pressing, and compacting machine setters, operators, and tenders	872	51-9041
Furnace, kiln, oven, drier, and kettle operators and tenders	873	51-9051
Inspectors, testers, sorters, samplers, and weighers	874	51-9061
Jewelers and precious stone and metal workers	875	51-9071
Medical, dental, and ophthalmic laboratory technicians	876	51-9080
Unused codes	877-879	
Packaging and filling machine operators and tenders	880	51-9111
Painting workers	881	51-9120
Unused codes	882	
Photographic process workers and processing machine operators	883	51-9130
Semiconductor processors	884	51-9141
Cementing and gluing machine operators and tenders	885	51-9191
Cleaning, washing, and metal pickling equipment operators and tenders	886	51-9192
Unused codes	887-889	
Cooling and freezing equipment operators and tenders	890	51-9193
Etchers and engravers	891	51-9194
Molders, shapers, and casters, except metal and plastic	892	51-9195
Paper goods machine setters, operators, and tenders	893	51-9196
Tire builders	894	51-9197
Helpers—production workers	895	51-9198
Production workers, all other	896	51-9199
Unused codes	897-899	

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Production, transportation and material moving occupations—Con.		
Transportation and material moving occupations:	900-979	53-0000
Supervisors, transportation and material moving workers	900	53-1000
Unused codes	901-902	
Aircraft pilots and flight engineers	903	53-2010
Air traffic controllers and airfield operations specialists	904	53-2020
Unused codes	905-910	
Ambulance drivers and attendants, except emergency medical technicians	911	53-3011
Bus drivers	912	53-3020
Driver/sales workers and truck drivers	913	53-3030
Taxi drivers and chauffeurs	914	53-3041
Motor vehicle operators, all other	915	53-3099
Unused codes	916-919	
Locomotive engineers and operators	920	53-4010
Unused codes	921-922	
Railroad brake, signal, and switch operators	923	53-4021
Railroad conductors and yardmasters	924	53-4031
Unused codes	925	
Subway, streetcar, and other rail transportation workers	926	53-40XX
Unused codes	927-929	
Sailors and marine oilers	930	53-5011
Ship and boat captains and operators	931	53-5020
Unused codes	932	
Ship engineers	933	53-5031
Bridge and lock tenders	934	53-6011
Parking lot attendants	935	53-6021
Service station attendants	936	53-6031
Unused codes	937-940	
Transportation inspectors	941	53-6051
Other transportation workers	942	53-60XX
Unused codes	943-949	
Conveyor operators and tenders	950	53-7011
Crane and tower operators	951	53-7021
Dredge, excavating, and loading machine operators	952	53-7030
Unused codes	953-955	
Hoist and winch operators	956	53-7041
Unused codes	957-959	
Industrial truck and tractor operators	960	53-7051
Cleaners of vehicles and equipment	961	53-7061
Laborers and freight, stock, and material movers, hand	962	53-7062
Machine feeders and offbearers	963	53-7063
Packers and packagers, hand	964	53-7064

SOC Based Census 2000 Category Title	Census 2000	2000 SOC Equivalent
Production, transportation and material moving occupations—Con.		
Transportation and material moving occupations—Con.		
Pumping station operators	965	53-7070
Unused codes	966-971	
Refuse and recyclable material collectors	972	53-7081
Shuttle car operators	973	53-7111
Tank car, truck, and ship loaders	974	53-7121
Material moving workers, all other	975	53-7199
Unused codes	976-979	
Military specific occupations	980-983	55-0000
Military officer and special tactical operations leaders/managers	980	55-1000
First-line enlisted military supervisors/managers	981	55-2000
Military enlisted tactical operations and air/weapons specialists and crew members	982	55-3000
Military, rank not specified	983	—
Unused codes	984-991	
Unemployed, with no work experience since 1995	992	

Note:

The Census 2000 occupational classification has 509 categories. Of these, 369 exactly match SOC detailed categories; another 127 match the SOC at its broad category or minor group level. There are 13 aggregates of multiple SOC categories that do not have an exact match to a single SOC code. Since each of the 13 aggregates contains more than one SOC equivalent, the Census Bureau will us an "X" or "XX" designation in tabulations that show data for these aggregates. These aggregates are as follows:

Census Code and Title	SOC Designation and Title	SOC Code
073 – Other Business Operations Specialists	13-11XX – Miscellaneous Business Operations Specialists including Emergency Management Specialist	13-1061 13-1199
100 – Computer Scientists and Systems Analysts	15-10XX – Miscellaneous Computer Specialists including Computer and Information Scientists and Computer Systems Analysts	15-1011 15-1051 15-1099
196 – Other Life, Physical, and Social Science Technicians	19-40XX – Miscellaneous Life, Physical, and Social Science Technicians including Social Science Research Assistants	19-4061 19-4090
255 – Other Education, Training, and Library Workers	25-90XX – Miscellaneous Education, Training, and Library Workers except Teacher Assistants	25-9011 25-9021 25-9031 25-9099
365 – Medical Assistants and Other Healthcare Support Occupations	31-909X – Miscellaneous Healthcare Support Workers, except Dental Assistants	31-9092 31-9093 31-9094 31-9095 31-9096 31-9099
395 – Lifeguards and Other Protective Service Workers	33-909X – Miscellaneous Protective Service Workers, except Crossing Guards	33-9092 33-9099
422 – Janitors and Building Cleaners	37-201X – Building Cleaning Workers, except Maids and Housekeeping Cleaners	37-2011 37-2019
694 – Other Extraction Workers	47-50XX – Miscellaneous Extraction Workers including Rock Splitters, Quarry	47-5051 47-5099
710 – Electrical and Electronics Repairers, Industrial and Utility	49-209X – Electrical and Electronics Repairers, Commercial and Industrial Equipment, Powerhouse, Substation, and Relay	49-2094 49-2095
733 – Industrial and Refractory Machinery Mechanics	49-904X – Industrial Machinery Mechanics plus Refractory Materials Repairers, Except Brickmasons	49-9041 49-9045
762 – Other Installation, Maintenance, and Repair Workers	49-909X – Installation, Maintenance, and Repair Workers, All Other, including Fabric Menders, Except Garment	49-9093 49-9099
926 – Subway, Streetcar, and Other Rail Transportation Workers	53-40XX – Miscellaneous Rail Transportation Workers including Subway and Streetcar Operators	53-4041 53-4099
942 – Other Transportation Workers	53-60XX – Miscellaneous Transportation Workers including TrafficTechnicians	53-6041 53-6099

RACE

WHITE (100-199)

100	White (Checkbox)
101	White
102	Arab
103	English
104	French
105	German
106	Irish
107	Italian
108	Near Easterner
109	Polish
110	Scottish
111	Armenian
112	Assyrian
113	Egyptian
114	Iranian
115	Iraqi
116	Lebanese
117	Middle East
118	Palestinian
119	Syrian
120	Other Arab
121	Afghanistani
122	Israeli
123	Californio
124	Cajun
125-139	Not Used
140	Multiple WHITE responses
141-199	Not Used

BLACK OR AFRICAN AMERICAN (200-299)

200	Black, African Am., or Negro (Checkbox)
201	Black
202	African
203	African American
204	Afro-American
205	Nigritian
206	Negro
207	Bahamian
208	Barbadian
209	Botswana
210	Not Used
211	Not Used
212	Not Used
213	Ethiopian
214	Haitian
215	Jamaican
216	Liberian
217	Not Used
218	Namibian
219	Nigerian
220	Other African
221	Not Used

RACE—Con.

BLACK OR AFRICAN AMERICAN (200-299)—Con.

222	Tobago
223	Trinidad
224	West Indies
225	Zaire
226-239	Not Used
240	Multiple BLACK OR AFRICAN AMERICAN responses
241-299	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)

300	American Indian or Alaska Native (Checkbox)
301-399	Not Used

Abenaki

A01	Abenaki Nation of Missiquoi
A02-A04	Not Used

Algonquian

A05	Algonquian
A06-A08	Not Used

Apache

A09	Apache
A10	Chiricahua
A11	Fort Sill Apache
A12	Jicarilla Apache
A13	Lipan Apache
A14	Mescalero Apache
A15	Oklahoma Apache
A16	Payson Tonto Apache
A17	San Carlos Apache
A18	White Mountain Apache
A19-A23	Not Used

Arapahoe

A24	Arapahoe
A25	Northern Arapahoe
A26	Southern Arapahoe
A27	Wind River Arapahoe
A28-A30	Not Used

Arikara

A31	Arikara
A32-A33	Not Used

Assiniboine

A34	Assiniboine
A35	Fort Peck Assiniboine
A36	Fort Belknap Assiniboine
A37	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Assiniboine Sioux

A38	Assiniboine Sioux
A39	Fort Peck Assiniboine and Sioux
A40-A41	Not Used

Bannock

A42	Bannock
A43-A44	Not Used

Blackfeet

A45	Blackfeet
A46-A50	Not Used

Brotherton

A51	Brotherton
A52-A53	Not Used

Burt Lake Band

A54	Burt Lake Band
A55	Not Used

Caddo

A56	Caddo
A57	Caddo Indian Tribe of Oklahoma
A58	Caddo Adais Indians
A59-A60	Not Used

Cahuilla

A61	Agua Caliente Band of Cahuilla Indians
A62	Augustine
A63	Cabazon Band of Cahuilla Mission Indians
A64	Cahuilla
A65	Los Coyotes Band of Cahuilla Mission Indians
A66	Morongo Band of Cahuilla Mission Indians
A67	Santa Rosa Cahuilla
A68	Torres-Martinez Band of Cahuilla Mission Indians
A69	Ramona Band or Village of Cahuilla Mission Indians
A70-A74	Not Used

California Tribes

A75	Cahto Indian Tribe of the Laytonville Rancheria
A76	Chimariko
A77	Coast Miwok
A78	Not Used
A79	Kawaiisu
A80	Kern River Paiute Council
A81	Mattole
A82	Red Wood
A83	Santa Rosa Indian Community
A84	Takelma

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

California Tribes—Con.

A85	Wappo
A86	Yana
A87	Yuki
A88	Bear River Band of Rohnerville Rancheria
A89-A90	Not Used
A91	(See Tolowa heading)
A92-A93	Not Used

Canadian and Latin American

A94	Canadian Indian
A95	Central American Indian
A96	French American Indian
A97	Mexican American Indian
A98	South American Indian
A99	Spanish American Indian
B01-B03	Not Used

Catawba

B04	Catawba Indian Nation
B05-B06	Not Used

Cayuse

B07	Cayuse
B08-B10	Not Used

Chehalis

B11	Chehalis
B12-B13	Not Used

Chemakuan

B14	Chemakuan
B15	Hoh Indian Tribe
B16	Quileute
B17-B18	Not Used

Chemehuevi

B19	Chemehuevi
B20	Not Used

Cherokee

B21	Cherokee
B22	Cherokee Alabama
B23	Cherokees of Northeast Alabama
B24	Cherokees of Southeast Alabama
B25	Eastern Cherokee
B26	Echota Cherokee
B27	Georgia Eastern Cherokee
B28	Northern Cherokee Nation of Missouri and Arkansas
B29	Tuscola

Cherokee—Con.

B30	United Keetoowah Band of Cherokee
B31	Western Cherokee
B32	Southeastern Cherokee Council
B33	Sac River Band of the Chickamauga-Cherokee
B34	White River Band of the Chickamauga-Cherokee
B35	Four Winds Cherokee
B36	Cherokee of Georgia

Cherokee Shawnee

B37	Cherokee Shawnee
B38-B39	Not Used

Cheyenne

B40	Cheyenne
B41	Northern Cheyenne
B42	Southern Cheyenne
B43-B45	Not Used

Cheyenne-Arapaho

B46	Cheyenne-Arapaho
B47-B48	Not Used

Chickahominy

B49	Chickahominy Indian Tribe
B50	Chickahominy Eastern Band
B51-B52	Not Used

Chickasaw

B53	Chickasaw
B54-B56	Not Used

Chinook

B57	Chinook
B58	Clatsop
B59	Columbia River Chinook
B60	Kathlamet
B61	Upper Chinook
B62	Wakiakum Chinook
B63	Willapa Chinook
B64	Wishram
B65-B66	Not Used

Chippewa

B67	Bad River Band of the Lake Superior Tribe
B68	Bay Mills Indian Community of the Sault Ste. Marie Band
B69	Bois Forte/Nett Lake Band of Chippewa
B70	Burt Lake Chippewa
B71	Chippewa
B72	Fond du Lac

Chippewa—Con.

B73	Grand Portage
B74	Grand Traverse Band of Ottawa and Chippewa Indians
B75	Keweenaw Bay Indian Community of the L'Anse and Ontonagon Bands
B76	Lac Court Oreilles Band of Lake Superior Chippewa
B77	Lac du Flambeau
B78	Lac Vieux Desert Band of Lake Superior Chippewa
B79	Lake Superior
B80	Leech Lake
B81	Little Shell Chippewa
B82	Mille Lacs
B83	Minnesota Chippewa
B84	Ontonagon
B85	Red Cliff Band of Lake Superior Chippewa
B86	Red Lake Band of Chippewa Indians
B87	Saginaw Chippewa
B88	St. Croix Chippewa
B89	Sault Ste. Marie Chippewa
B90	Sokoagon Chippewa
B91	Turtle Mountain Band
B92	White Earth
B93	Swan Creek Black River Confederate Tribe
B94-B99	Not Used

Chippewa Cree

C01	Not Used
C02	Rocky Boy's Chippewa Cree
C03-C04	Not Used

Chitimacha

C05	Chitimacha Tribe of Louisiana
C06-C07	Not Used

Choctaw

C08	Choctaw
C09	Clifton Choctaw
C10	Jena Band of Choctaw
C11	Mississippi Band of Choctaw
C12	Mowa Band of Choctaw
C13	Oklahoma Choctaw
C14-C16	Not Used

Choctaw-Apache

C17	Choctaw-Apache Community of Ebarb
C18-C19	Not Used

Chumash

C20	Chumash
C21	Santa Ynez
C22	San Luis Rey Mission Indian
C23-C24	Not Used

Clear Lake

C25	Clear Lake

Coeur D'Alene

C26	Coeur D'Alene
C27-C28	Not Used

Coharie

C29	Coharie
C30-C31	Not Used

Colorado River Indian

C32	Colorado River
C33-C34	Not Used

Colville

C35	Colville
C36-C38	Not Used

Comanche

C39	Comanche
C40	Oklahoma Comanche
C41-C43	Not Used

Coos, Lower Umpqua, and Siuslaw

C44	Coos, Lower Umpqua, and Siuslaw
C45	Not Used

Coos

C46	Coos

Coquille

C47	Coquille
C48	Not Used

Costanoan

C49	Costanoan
C50-C51	Not Used

Coushatta

C52	Alabama Coushatta Tribes of Texas
C53	Coushatta
C54-C55	Not Used

Cowlitz

C56	Cowlitz
C57-C58	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Cree

C59	Cree
C60-C63	Not Used

Creek

C64	Alabama Creek
C65	Alabama Quassarte Tribal Town
C66	Muscogee (Creek) Nation
C67	Eastern Creek
C68	Eastern Muscogee
C69	Kialegee Tribal Town
C70	Lower Muscogee Creek Tama Tribal Town
C71	Machis Lower Creek Indian
C72	Poarch Creek
C73	Principal Creek Indian Nation
C74	Star Clan of Muskogee Creeks
C75	Thlopthlocco Tribal Town
C76	Tuckabachee
C77-C80	Not Used

Croatan

C81	Croatan
C82	Not Used

Crow

C83	Crow
C84-C86	Not Used

Cumberland

C87	Cumberland County Association for Indian People
C88	Not Used

Cupeno

C89	Agua Caliente
C90	Cupeno
C91-C92	Not Used

Delaware

C93	Delaware
C94	Delaware Tribe of Indians, Oklahoma
C95	Lenni-Lanape
C96	Munsee
C97	Delaware Tribe of Western Oklahoma
C98	Ramapough Mountain
C99	Sand Hill Band of Delaware Indians
D01-D04	Not Used

Diegueno

D05	Barona Group of Capitan Grande Band
D06	Campo Band of Diegueno Mission Indians

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Diegueno–Con.

D07	Capitan Grande Band of Diegueno Mission Indians
D08	Cuyapaipe
D09	Diegueno
D10	La Posta Band of Diegueno Mission Indians
D11	Manzanita
D12	Mesa Grande Band of Diegueno Mission Indians
D13	San Pasqual Band of Diegueno Mission Indians
D14	Santa Ysabel Band of Diegueno Mission Indians
D15	Sycuan Band of Diegueno Mission Indians
D16	Viejas (Baron Long) Group of Capitan Grande Band
D17	Inaja Band of Diegueno Mission Indians of the Inaja and Cosmit Reservation
D18	Jamul Indian Village
D19	Not Used

Eastern Tribes

D20	Attacapa
D21	Biloxi
D22	Georgetown
D23	Moor
D24	Nansemond Indian Tribe
D25	Natchez
D26	Nausu Waiwash
D27	(See Nipmuc heading)
D28	Golden Hill Paugussett
D29	Pocomoke Acohonock
D30	Southeastern Indians
D31	Susquehanock
D32	Not Used
D33	Tunica Biloxi
D34	Waccamaw Siouan
D35	Not Used
D36	Wicomico
D37	Meherrin Indian Tribe
D38-D41	Not Used

Esselen

D42	Esselen
D43	Not Used

Fort Belknap

D44	Fort Belknap
D45	Not Used

Three Affiliated Tribes of North Dakota

D46	Three Affiliated Tribes of North Dakota (Fort Bethold)
D47-D48	Not Used

Fort McDowell

D49	Fort McDowell Mohave-Apache Community
D50	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Fort Hall

D51	Shoshone-Bannock Tribes of the Fort Hall Reservation
D52-D54	Not Used

Gabrieleno

D55	Gabrieleno
D56	Not Used

Grand Ronde

D57	Grand Ronde

Guilford

D58	Guilford Native American Association
D59	Not Used

Gros Ventres

D60	Atsina
D61	Gros Ventres
D62	Fort Belknap Gros Ventres
D63	Not Used

Haliwa-Saponi

D64	Haliwa-Saponi
D65-D66	Not Used

Hidatsa

D67	Hidatsa
D68-D69	Not Used

Hoopa

D70	Hoopa Valley Tribe
D71	Trinity
D72	Whilkut
D73-D75	Not Used

Hoopa Extension

D76	Hoopa Extension
D77	Not Used

Houma

D78	United Houma Nation
D79-D86	Not Used

Iowa

D87	Iowa
D88	Iowa of Kansas and Nebraska
D89	Iowa of Oklahoma
D90	Not Used

Indians of Person County

D91	Indians of Person County
D92	Not Used

Iroquois

D93	Cayuga Nation
D94	Iroquois
D95	Mohawk
D96	Oneida Nation of New York
D97	Onondaga
D98	Seneca
D99	Seneca Nation
E01	Seneca-Cayuga
E02	Tonawanda Band of Seneca
E03	Tuscarora
E04	Wyandotte
E05-E09	Not Used

Juaneno (Acjachemem)

E10	Juaneno (Acjachemem)
E11-E12	Not Used

Kalispel

E13	Kalispel Indian Community
E14-E16	Not Used

Karuk

E17	Karuk Tribe of California
E18-E20	Not Used

Kaw

E21	Kaw
E22-E23	Not Used

Kickapoo

E24	Kickapoo
E25	Oklahoma Kickapoo
E26	Texas Kickapoo
E27-E29	Not Used

Kiowa

E30	Kiowa
E31	Oklahoma Kiowa
E32-E36	Not Used

S'Klallam

E37	Jamestown S'Klallam
E38	Klallam

S'Klallam—Con.

E39	Lower Elwha Tribal Community
E40	Port Gamble Klallam
E41-E43	Not Used

Klamath

E44	Klamath
E45-E47	Not Used

Konkow

E48	Konkow
E49	Not Used

Kootenai

E50	Kootenai
E51-E52	Not Used

Lassik

E53	Lassik
E54-E58	Not Used

Long Island

E59	Matinecock
E60	Montauk
E61	Poospatuck
E62	Setauket
E63-E65	Not Used

Luiseno

E66	La Jolla Band of Luiseno Mission Indians
E67	Luiseno
E68	Pala Band of Luiseno Mission Indians
E69	Pauma Band of Luiseno Mission Indians
E70	Pechanga Band of Luiseno Mission Indians
E71	Soboba
E72	Twenty-Nine Palms Band of Luiseno Mission Indians
E73	Temecula
E74	Rincon Band of Luiseno Mission Indians
E75-E77	Not Used

Lumbee

E78	Lumbee
E79-E83	Not Used

Lummi

E84	Lummi
E85-E86	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Maidu

E87	Mooretown Rancheria of Maidu Indians
E88	Maidu
E89	Mountain Maidu
E90	Nisenen (Nishinam)
E91	Mechoopda Indian Tribe of Chico Rancheria, California
E92	Berry Creek Rancheria of Maidu Indians
E93	Enterprise Rancheria
E94	Greenville Rancheria

Makah

E95	Makah
E96-E99	Not Used

Maliseet

F01	Maliseet
F02	Houlton Band of Maliseet Indians
F03-F04	Not Used

Mandan

F05	Mandan
F06-F08	Not Used

Mattaponi

F09	Mattaponi Indian Tribe
F10	Upper Mattaponi Tribe

Menominee

F11	Menominee
F12-F14	Not Used

Metrolina

F15	Metrolina Native American Association
F16	Not Used

Miami

F17	Illinois Miami
F18	Indiana Miami
F19	Miami
F20	Oklahoma Miami
F21-F23	Not Used

Miccosukee

F24	Miccosukee
F25-F26	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Micmac

F27	Aroostook Band
F28	Micmac
F29-F30	Not Used

Mission Indians

F31	Mission Indians
F32	Cahuilla Band of Mission Indians
F33	Juaneno Band of Mission Indians

Miwok

F34	Ione Band of Miwok Indians
F35	Shingle Springs Band of Miwok Indians

Me-Wuk

F36	Me-Wuk
F37	Jackson Rancheria of Me-Wuk Indians of California
F38	Tuolumne Band of Me-Wuk Indians of California
F39	Buena Vista Rancheria of Me-Wuk Indians of California
F40	Chicken Ranch Rancheria of Me-Wuk Indians
F41	Sheep Ranch Rancheria of Me-Wuk Indians

Modoc

F42	Modoc
F43	Oklahoma Modoc
F44-F45	Not Used

Mohegan

F46	Mohegan
F47	Not Used

Monacan

F48	Monacan Indian Nation
F49	Mono
F50	North Fork Rancheria
F51	Cold Springs Rancheria
F52	Big Sandy Rancheria

Nanticoke

F53	Nanticoke
F54-F55	Not Used

Nanticoke Lenni-Lenape

F56	Nanticoke Lenni-Lenape

Narragansett

F57	Narragansett
F58-F61	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Navajo

F62	Alamo Navajo
F63	Tohajiileehee Navajo (Canoncito)
F64	Navajo
F65	Ramah Navajo
F66-F70	Not Used

Nez Perce

F71	Nez Perce
F72-F74	Not Used

Nipmuc

F75	Hassanamisco Band of the Nipmuc Nation
F76	Chaubunagungameg Nipmuc
D27	Nipmuc

Nomlaki

F77	Nomlaki
F78	Paskenta Band of Nomlaki Indians
F79	Not Used

Northwest Tribes

F80	Alsea
F81	Celilo
F82	Columbia
F83	Kalapuya
F84	Molalla
F85	Talakamish
F86	Tenino
F87	Tillamook
F88	Wenatchee
F89-F94	Not Used

Omaha

F95	Omaha
F96-F98	Not Used

Oneida Tribe

F99	Oneida Tribe of Wisconsin

Oregon Athabascan

G01	Oregon Athabascan
G02-G03	Not Used

Osage

G04	Osage
G05-G09	Not Used

Otoe-Missouria

G10	Otoe-Missouria
G11-G13	Not Used

Ottawa

G14	Burt Lake Ottawa
G15	Little River Band of Ottawa Indians of Michigan
G16	Oklahoma Ottawa
G17	Ottawa
G18	Little Traverse Bay Bands of Ottawa Indians of Michigan
G19	Grand River Band of Ottawa Indians
G20-G22	Not Used

Paiute

G23	Not Used
G24	Bridgeport Paiute Indian Colony
G25	Burns Paiute Tribe
G26	Cedarville Rancheria
G27	Fort Bidwell
G28	Fort Independence
G29	Kaibab Band of Paiute Indians
G30	Las Vegas Tribe of the Las Vegas Indian Colony
G31	Not Used
G32	Lovelock Paiute Tribe of the Lovelock Indian Colony
G33	Malheur Paiute
G34	Moapa Band of Paiute
G35	Northern Paiute
G36	Not Used
G37	Paiute
G38	Pyramid Lake
G39	San Juan Southern Paiute
G40	Southern Paiute
G41	Summit Lake
G42	Utu Utu Gwaitu Paiute
G43	Walker River
G44	Yerington Paiute
G45	Yahooskin Band of Snake
G46	Not Used
G47	Susanville
G48	Winnemucca
G49	Not Used

Pamunkey

G50	Pamunkey Indian Tribe
G51-G52	Not Used

Passamaquoddy

G53	Indian Township
G54	Passamaquoddy
G55	Pleasant Point Passamaquoddy
G56-G60	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Pawnee

G61	Oklahoma Pawnee
G62	Pawnee
G63-G67	Not Used

Penobscot

G68	Penobscot
G69-G71	Not Used

Peoria

G72	Oklahoma Peoria
G73	Peoria
G74-G76	Not Used

Pequot

G77	Mashantucket Pequot
G78	Pequot
G79	Paucatuck Eastern Pequot
G80-G83	Not Used

Pima

G84	Gila River Indian Community
G85	Pima
G86	Salt River Pima-Maricopa
G87-G91	Not Used

Piscataway

G92	Piscataway
G93-G95	Not Used

Pit River

G96	Pit River Tribe of California
G97	Alturas Indian Rancheria
G98	Redding Rancheria

Pomo and Pit River Indians

G99	Big Valley Rancheria of Pomo and Pit River Indians

Pomo

H01	Central Pomo
H02	Dry Creek
H03	Eastern Pomo
H04	Kashia Band of Pomo Indians of the Stewarts Point Rancheria
H05	Northern Pomo
H06	Pomo
H07	Scotts Valley Band
H08	Stonyford
H09	Elem Indian Colony of the Sulphur Bank
H10	Sherwood Valley Rancheria of Pomo Indians of California
H11	Guidiville Rancheria of California

Pomo–Con.

H12	Lytton Rancheria of California
H13	Cloverdale Rancheria
H14	Coyote Valley Band
H15-H65	(See below under Ponca through Pueblo)
H66	Hopland Band of Pomo Indians
H67	Manchester Band of Pomo Indians of the Manchester-Point Arena Rancheria
H68	Middletown Rancheria of Pomo Indians
H69	Pinoleville Rancheria of Pomo Indians
H70-H92	(See below under Puget Sound Salish)
H93	Potter Valley Rancheria of Pomo Indians
H94	Redwood Valley Rancheria of Pomo Indians
H95	Robinson Rancheria of Pomo Indians
H96	Upper Lake Band of Pomo Indians of Upper Lake Rancheria

Ponca

H15	Nebraska Ponca
H16	Oklahoma Ponca
H17	Ponca
H18-H20	Not Used

Potawatomi

H21	Citizen Potawatomi Nation
H22	Forest County Potawatomi Community
H23	Hannahville Indian Community of Wisconsin Potawatomi
H24	Huron Potawatomi
H25	Pokagon Band of Potawatomi Indians
H26	Potawatomi
H27	Prairie Band of Potawatomi Indians
H28	Wisconsin Potawatomi
H29-H33	Not Used

Powhatan

H34	Powhatan
H35-H37	Not Used

Pueblo

H38	Acoma
H39	Arizona Tewa
H40	Cochiti
H41	Hopi
H42	Isleta
H43	Jemez
H44	Keres
H45	Laguna
H46	Nambe
H47	Picuris
H48	Piro
H49	Pojoaque
H50	Pueblo
H51	San Felipe
H52	San Ildefonso

Pueblo–Con.

H53	San Juan Pueblo
H54	Not Used
H55	San Juan
H56	Sandia
H57	Santa Ana
H58	Santa Clara
H59	Santo Domingo
H60	Taos
H61	Tesuque
H62	Tewa
H63	Ysleta Del Sur Pueblo of Texas
H64	Zia
H65	Zuni
H66-H69	(See Pomo heading)

Puget Sound Salish

H70	Marietta Band of Nooksack
H71	Duwamish
H72	Kikiallus
H73	Lower Skagit
H74	Muckleshoot
H75	Nisqually
H76	Nooksack
H77	Port Madison
H78	Puget Sound Salish
H79	Puyallup
H80	Samish
H81	Sauk-Suiattle
H82	Skokomish
H83	Skykomish
H84	Snohomish
H85	Snoqualmie
H86	Squaxin Island
H87	Steilacoom
H88	Stillaguamish
H89	Suquamish
H90	Swinomish
H91	Tulalip
H92	Upper Skagit
H93-H96	(See Pomo heading)

Quapaw

H97	Quapaw
H98-H99	Not Used
I01-I99	Not Used

Quinault

J01	Quinault
J02-J04	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Rappahannock

J05	Rappahannock Indian Tribe
J06	Not Used

Reno-Sparks

J07	Reno-Sparks
J08-J13	Not Used

Round Valley

J14	Round Valley
J15-J18	Not Used

Sac and Fox

J19	Sac and Fox Tribe of the Mississippi in Iowa
J20	Sac and Fox Nation of Missouri in Kansas and Nebraska
J21	Sac and Fox Nation, Oklahoma
J22	Sac and Fox
J23-J27	Not Used

Salinan

J28	Salinan
J29-J30	Not Used

Salish

J31	Salish
J32-J34	Not Used

Salish and Kootenai

J35	Salish and Kootenai
J36	Pondre Band of Salish and Kootenai
J37-J38	Not Used

Schaghticoke

J39	Schaghticoke
J40-J46	Not Used

Seminole

J47	Big Cypress
J48	Brighton
J49	Florida Seminole
J50	Hollywood Seminole
J51	Oklahoma Seminole
J52	Seminole
J53	Dania Seminole
J54	Tampa Seminole
J55-J57	Not Used

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Serrano

J58	San Manual Band
J59	Serrano
J60-J61	Not Used

Shasta

J62	Shasta
J63	Quartz Valley
J64-J65	Not Used

Shawnee

J66	Absentee Shawnee Tribe of Indians of Oklahoma
J67	Eastern Shawnee
J68	Shawnee
J69	Piqua Sept of Ohio Shawnee
J70-J73	Not Used

Shinnecock

J74	Shinnecock
J75-J77	Not Used

Shoalwater Bay

J78	Shoalwater Bay
J79-J80	Not Used

Shoshone

J81	Duckwater
J82	Ely
J83	Goshute
J84	Not Used
J85	Shoshone
J86	Skull Valley Band of Goshute Indians
J87	Not Used
J88	Death Valley Timbi-Sha Shoshone
J89	Northwestern Band of Shoshoni Nation of Utah (Washakie)
J90	Wind River (Eastern Shoshone)
J91	Yomba
J92	Not Used

Te-Moak Tribes of Western Shoshone Indians of Nevada

J93	Te-Moak Tribes of Western Shoshone Indians
J94	Battle Mountain
J95	Elko
J96	South Fork
J97	Wells Band
J98	Ruby Valley
J99	Odgers Ranch

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Paiute-Shoshone

K01	Duck Valley
K02	Fallon
K03	Fort McDermitt Paiute and Shoshone Tribes
K04	Shoshone Paiute
K05	Bishop
K06	Lone Pine
K07	Big Pine Band of Owens Valley Paiute-Shoshone
K08-K09	Not Used

Siletz

K10	Confederated Tribes of the Siletz Reservation
K11-K15	Not Used

Sioux

K16	Blackfoot Sioux
K17	Brule Sioux
K18	Cheyenne River Sioux
K19	Crow Creek Sioux
K20	Dakota Sioux
K21	Flandreau Santee Sioux
K22	Fort Peck Sioux
K23	Lake Traverse Sioux
K24	Lower Brule Sioux
K25	Lower Sioux Indian Community of Minnesota Mdewakanton Sioux
K26	Mdewakanton Sioux
K27	Miniconjou
K28	Oglala Sioux
K29	Pine Ridge Sioux
K30	Pipestone Sioux
K31	Prairie Island Sioux
K32	Shakopee Mdewakanton Sioux Community (Prior Lake)
K33	Rosebud Sioux
K34	Sans Arc Sioux
K35	Santee Sioux of Nebraska
K36	Sioux
K37	Sisseton-Wahpeton
K38	Sisseton Sioux
K39	Spirit Lake Sioux (formerly Devils Lake Sioux)
K40	Standing Rock Sioux
K41	Teton Sioux
K42	Two Kettle Sioux
K43	Upper Sioux
K44	Wahpekute Sioux
K45	Wahpeton Sioux
K46	Wazhaza Sioux
K47	Yankton Sioux
K48	Yanktonai Sioux
K49-K53	Not Used

Siuslaw

K54	Siuslaw
K55-K58	Not Used

Spokane

K59	Spokane
K60-K66	Not Used

Stockbridge-Munsee

K67	Stockbridge-Munsee Community of Mohican Indians of Wisconsin
K68-K76	Not Used

Tohono O'Odham

K77	Ak-Chin
K78	Gila Bend
K79	San Xavier
K80	Sells
K81	Tohono O'Odham
K82-K86	Not Used

Tolowa

K87	Tolowa
K88	Big Lagoon Rancheria
K89	Elk Valley Rancheria
A91	Smith River Rancheria

Tonkawa

K90	Tonkawa
K91-K92	Not Used

Trinidad

K93	Cher-Ae Indian Community of Trinidad Rancheria

Tygh

K94	Tygh
K95-K96	Not Used

Umatilla

K97	Umatilla
K98-K99	Not Used

Umpqua

L01	Cow Creek Umpqua
L02	Umpqua
L03-L05	Not Used

Ute

L06	Allen Canyon
L07	Uintah Ute

Ute–Con.

L08	Ute Mountain
L09	Ute
L10	Southern Ute
L11-L14	Not Used

Wailaki

L15	Wailaki
L16-L18	Not Used

Walla-Walla

L19	Walla-Walla
L20-L21	Not Used

Wampanoag

L22	Gay Head (Aquinnah) Wampanoag
L23	Mashpee Wampanoag
L24	Wampanoag
L25	Seaconeke Wampanoag
L26	Pocasset Wampanoag
L27	Not Used

Warm Springs

L28	Warm Springs
L29-L33	Not Used

Wascopum

L34	Wascopum
L35-L37	Not Used

Washoe

L38	Alpine
L39	Carson Colony
L40	Dresslerville Colony
L41	Washoe
L42	Stewart Community
L43	Woodsfords Community
L44-L46	Not Used

Wichita

L47	Wichita
L48	Keechi
L49	Waco
L50	Tawakonie
L51	Not Used

Wind River

L52	Wind River
L53-L54	Not Used

Winnebago

L55	Ho-Chunk Nation of Wisconsin
L56	Nebraska Winnebago
L57	Winnebago
L58-L65	Not Used

Wintun

L66	Wintun
L67	Cachil Dehe Band of Wintun Indians of the Colusa Rancheria
L68	Cortina Indian Rancheria of Wintun Indians
L69	Rumsey Indian Rancheria of Wintun Indians
L70	Not Used

Wintun-Wailaki

L71	Grindstone Indian Rancheria of Wintun-Wailaki Indians

Wiyot

L72	Table Bluff
L73	Wiyot
L74	Blue Lake Rancheria
L75-L78	Not Used

Yakama

L79	Yakama
L80-L84	Not Used

Yakama Cowlitz

L85	Yakama Cowlitz
L86-L90	Not Used

Yaqui

L91	Barrio Libre
L92	Pascua Yaqui
L93	Yaqui
L94-L99	Not Used

Yavapai Apache

M01	Yavapai Apache
M02-M06	Not Used

Yokuts

M07	Picayune Rancheria of Chukchansi Indians
M08	Tachi
M09	Tule River
M10	Yokuts
M11	Table Mountain Rancheria
M12-M15	Not Used

RACE—Con.

AMERICAN INDIAN AND ALASKA NATIVE (300-399, A01-R99)—Con.

Yuchi

M16	Yuchi
M17	Tia
M18	Wilono
M19	An-stohini/Unami
M20-M21	Not Used

Yuman

M22	Cocopah Tribe of Arizona
M23	Havasupai
M24	Hualapai
M25	Maricopa
M26	Fort Mojave Indian Tribe of Arizona
M27	Quechan
M28	Yavapai-Prescott Tribe of the Yavapai Reservation
M29-M33	Not Used

Yurok

M34	Resighini Rancheria
M35	Yurok
M36-M38	Not Used
M39	Multiple AMERICAN INDIAN and ALASKA NATIVE responses
M40	Multiple AMERICAN INDIAN responses

Tribe Not Specified

M41	American Indian
M42	Tribal Response, not elsewhere classified
M43	Not Used

ALASKA NATIVE

ALASKA INDIAN TRIBES

Alaska Indian

M44	Alaska Indian
M45-M46	Not Used

Alaska Native

M47	Alaska Native
M48-M51	Not Used

Alaskan Athabascans

M52	Ahtna
M53	Alaskan Athabascan
M54	Alatna Village
M55	Alexander
M56	Allakaket Village
M57	Alanvik
M58	Anvik Village
M59	Arctic Village
M60	Beaver Village
M61	Birch Creek Tribe
M62	Native Village of Cantwell

RACE—Con.

ALASKA INDIAN TRIBES–Con.

Alaskan Athabascans–Con.

M63	Chalkyitsik Village
M64	Chickaloon Native Village
M65	Native Village of Chistochina
M66	Native Village of Chitina
M67	Circle Native Community
M68	Cook Inlet
M69	Not Used
M70	Copper River
M71	Village of Dot Lake
M72	Doyon
M73	Native Village of Eagle
M74	Eklutna Native Village
M75	Evansville Village (Bettles Field)
M76	Native Village of Fort Yukon
M77	Native Village of Gakona
M78	Galena Village (Louden Native Village)
M79	Organized Village of Grayling (Holikachuk)
M80	Gulkana Village
M81	Healy Lake Village
M82	Holy Cross Village
M83	Hughes Village
M84	Huslia Village
M85	Village of Iliamna
M86	Village of Kaltag
M87	Native Village of Kluti Kaah (Copper Center)
M88	Knik Tribe
M89	Koyukuk Native Village
M90	Lake Minchumina
M91	Lime Village
M92	McGrath Native Village
M93	Manley Hot Springs Village
M94	Mentasta Traditional Council
M95	Native Village of Minto
M96	Nenana Native Association
M97	Nikolai Village
M98	Ninilchik Village Traditional Council
M99	Nondalton Village
N01	Northway Village
N02	Nulato Village
N03	Pedro Bay Village
N04	Rampart Village
N05	Native Village of Ruby
N06	Village of Salamatoff
N07	Seldovia Village Tribe
N08	Slana
N09	Shageluk Native Village
N10	Native Village of Stevens
N11	Village of Stony River
N12	Takotna Village
N13	Native Village of Tanacross
N14	Tanaina
N15	Native Village of Tanana

RACE—Con.

ALASKA INDIAN TRIBES–Con.

Alaskan Athabascans–Con.

N16	Tanana Chiefs
N17	Native Village of Tazlina
N18	Telida Village
N19	Native Village of Tetlin
N20	Tok
N21	Native Village of Tyonek
N22	Village of Venetie
N23	Wiseman
N24	Kenaitze Indian Tribe
N25-N27	Not Used

Tlingit-Haida

N28	Angoon Community Association
N29	Central Council of the Tlingit and Haida Indian Tribes
N30	Chilkat Indian Village (Kluckwan)
N31	Chilkoot Indian Association (Haines)
N32	Craig Community Association
N33	Douglas Indian Association
N34	Haida
N35	Hoonah Indian Association
N36	Hydaburg Cooperative Association
N37	Organized Village of Kake
N38	Organized Village of Kasaan
N39	Not Used
N40	Ketchikan Indian Corporation
N41	Klawock Cooperative Association
N42	Not Used
N43	Pelican
N44	Petersburg Indian Association
N45	Organized Village of Saxman
N46	Sitka Tribe of Alaska
N47	Tenakee Springs
N48	Tlingit
N49	Wrangell Cooperative Association
N50	Yakutat Tlingit Tribe
N51	Juneau
N52-N55	Not Used

Tsimshian

N56	Metlakatla Indian Community, Annette Island Reserve
N57	Tsimshian
N58	Not Used

Sealaska

N59	Sealaska
N60	Sealaska Corporation
N61-N63	Not Used

Southeast Alaska

N64	Southeast Alaska
N65	Skagway Village
N66	Not Used

ESKIMO TRIBES

N67	American Eskimo
N68	Eskimo

Greenland Eskimo

N69	Greenland Eskimo
N70-N74	Not Used

Inuit

N75	Inuit
N76-N78	Not Used

Inupiat Eskimo

N79	Native Village of Ambler
N80	Anaktuvuk
N81	Village of Anaktuvuk Pass
N82	Inupiat Community of the Arctic Slope
N83	Arctic Slope Corporation
N84	Atqasuk Village (Atkasook)
N85	Native Village of Barrow Inupiat Traditional Government
N86	Bering Straits Inupiat
N87	Native Village of Brevig Mission
N88	Native Village of Buckland
N89	Chinik Eskimo Community (Golovin)
N90	Native Village of Council
N91	Native Village of Deering
N92	Native Village of Elim
N93	Not Used
N94	Native Village of Diomede (Inalik)
N95	Inupiaq
N96	Inupiat
N97	Kaktovik Village (Barter Island)
N98	Kawerak
N99	Native Village of Kiana
O01-O99	Not Used
P01	Native Village of Kivalina
P02	Native Village of Kobuk
P03	Native Village of Kotzebue
P04	Native Village of Koyuk
P05	Kwiguk
P06	Mauneluk Inupiat
P07	Nana Inupiat
P08	Native Village of Noatak
P09	Nome Eskimo Community
P10	Noorvik Native Community
P11	Native Village of Nuiqsut (Nooiksut)
P12	Native Village of Point Hope
P13	Native Village of Point Lay
P14	Native Village of Selawik
P15	Native Village of Shaktoolik

RACE—Con.

ESKIMO TRIBES–Con.

Inupiat Eskimo–Con.

P16	Native Village of Shishmaref
P17	Native Village of Shungnak
P18	Village of Solomon
P19	Native Village of Teller
P20	Native Village of Unalakleet
P21	Village of Wainwright
P22	Village of Wales
P23	Village of White Mountain
P24	White Mountain Inupiat
P25	Native Village of Mary's Igloo
P26	King Island Native Community
P27-P29	Not Used

Siberian Eskimo

P30	Native Village of Gambell
P31	Native Village of Savoonga
P32	Siberian Yupik
P33-P35	Not Used

Cupiks Eskimo

P36	Chevak Native Village
P37	Native Village of Mekoryuk

Yup'ik

P38	Akiachak Native Community
P39	Akiak Native Community
P40	Village of Alakanuk
P41	Native Village of Aleknagik
P42	Yupiit of Andreafski
P43	Village of Aniak
P44	Village of Atmautluak
P45	Orutsararmuit Native Village (Bethel)
P46	Village of Bill Moore's Slough
P47	Bristol Bay
P48	Calista
P49	Village of Chefornak
P50	Native Village of Hamilton
P51	Native Village of Chuathbaluk
P52	Village of Clark's Point
P53	Village of Crooked Creek
P54	Curyung Tribal Council (Native Village of Dillingham)
P55	Native Village of Eek
P56	Native Village of Ekuk
P57	Ekwok Village
P58	Emmonak Village
P59	Native Village of Goodnews Bay
P60	Native Village of Hooper Bay
P61	Iqurmuit Traditional Council
P62	Village of Kalskag
P63	Native Village of Kasigluk
P64	Native Village of Kipnuk

RACE—Con.

ESKIMO TRIBES–Con.

Yup'ik–Con.

P65	New Koliganek Village Council
P66	Native Village of Kongiganak
P67	Village of Kotlik
P68	Organized Village of Kwethluk
P69	Native Village of Kwigillingok
P70	Levelock Village
P71	Village of Lower Kalskag
P72	Manokotak Village
P73	Native Village of Marshall (Fortuna Lodge)
P74	Village of Ohogamiut
P75	Asa'carsarmiut Tribe
P76	Naknek Native Village
P77	Native Village of Napaimute
P78	Native Village of Napakiak
P79	Native Village of Napaskiak
P80	Newhalen Village
P81	New Stuyahok Village
P82	Newtok Village
P83	Native Village of Nightmute
P84	Native Village of Nunapitchuk
P85	Oscarville Traditional Village
P86	Pilot Station Traditional Village
P87	Native Village of Pitkas Point
P88	Platinum Traditional Village
P89	Portage Creek Village (Ohgsenakale)
P90	Native Village of Kwinhagak
P91	Village of Red Devil
P92	Native Village of Saint Michael
P93	Native Village of Scammon Bay
P94	Native Village of Sheldon's Point
P95	Village of Sleetmute
P96	Stebbins Community Association
P97	Traditional Village of Togiak
P98	Nunakauyarmiut Tribe (Toksook Bay)
P99	Tuluksak Native Community
Q01-Q99	Not Used
R01	Native Village of Tuntutuliak
R02	Native Village of Tununak
R03	Twin Hills Village
R04	Yup'ik
R05	Yup'ik Eskimo
R06	Native Village of Georgetown
R07	Algaaciq Native Village (St. Mary's)
R08	Umkumiute Native Village
R09	Chuloonawick Native Village
R10	Not Used

RACE—Con.

ALEUT TRIBES

Aleut

R11	Aleut
R12-R15	Not Used

Alutiiq Aleut

R16	Alutiiq
R17	Village of Afognak
R18-R22	Not Used
R23	Native Village of Tatitlek
R24	Ugashik Village
R25-R27	Not Used

Bristol Bay Aleut

R28	Bristol Bay Aleut
R29	Native Village of Chignik
R30	Chignik Lake Village
R31	Egegik Village
R32	Igiugig Village
R33	Ivanoff Bay Village
R34	King Salmon
R35	Kokhanok Village
R36	Native Village of Perryville
R37	Native Village of Pilot Point
R38	Native Village of Port Heiden
R39-R42	Not Used

Chugach Aleut

R43	Native Village of Chanega (Chenega)
R44	Chugach Aleut
R45	Chugach Corporation
R46	Native Village of Nanwalek (English Bay)
R47	Native Village of Port Graham
R48-R50	Not Used

Eyak

R51	Eyak
R52-R54	Not Used

Koniag Aleut

R55	Native Village of Akhiok
R56	Agdaagux Tribe of King Cove
R57	Native Village of Karluk
R58	Native Village of Kanatak
R59	Kodiak
R60	Koniag Aleut
R61	Native Village of Larsen Bay
R62	Village of Old Harbor
R63	Native Village of Ouzinkie
R64	Native Village of Port Lions
R65	Lesnoi Village (Woody Island)
R66	Not Used

RACE—Con.

ALEUT TRIBES—Con.

Sugpiaq

R67	Sugpiaq
R68-R70	Not Used

Suqpigaq

R71	Suqpigaq
R72-R74	Not Used

Unangan Aleut

R75	Native Village of Akutan
R76	Aleut Corporation
R77	Aleutian
R78	Aleutian Islander
R79	Native Village of Atka
R80	Native Village of Belkofski
R81	Native Village of Chignik Lagoon
R82	King Cove
R83	Native Village of False Pass
R84	Native Village of Nelson Lagoon
R85	Native Village of Nikolski
R86	Pauloff Harbor Village
R87	Qagan Tayagungin Tribe of Sand Point Village
R88	Qawalangin Tribe of Unalaska
R89	Saint George
R90	Saint Paul
R91	Sand Point
R92	South Naknek Village
R93	Unangan
R94	Unalaska
R95	Native Village of Unga
R96	Kaguyak Village
R97-R98	Not Used
R99	Multiple ALASKA NATIVE responses

ASIAN (400-499)

400	Asian Indian (Checkbox)
401	Asian Indian
402	Bangladeshi
403	Bhutanese
404	Burmese
405	Cambodian
406-409	Not Used
410	Chinese (Checkbox)
411	Chinese
412	Taiwanese
413-419	Not Used
420	Filipino (Checkbox)
421	Filipino
422	Hmong
423	Indonesian

RACE—Con.

ASIAN (400-499)–Con.

424-429	Not Used
430	Japanese (Checkbox)
431	Japanese
432-439	Not Used
440	Korean (Checkbox)
441	Korean
442	Laotian
443	Malaysian
444	Okinawan
445	Pakistani
446	Sri Lankan
447	Thai
448-449	Not Used
450	Vietnamese (Checkbox)
451	Vietnamese
452-459	Not Used
460	Other Asian (Checkbox)
461	Not Used
462	Asian
463	Asiatic
464	Not Used
465	Mongolian
466	Oriental
467	Whello
468	Yello
469	Indo-Chinese
470	Iwo Jiman
471	Maldivian
472	Nepalese
473	Singaporean
474-479	Not Used
480	Multiple ASIAN responses
481-499	Not Used

NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER (500-599)

Polynesian (500-519)

500	Native Hawaiian (Checkbox)
501	Native Hawaiian
502	Hawaiian
503	Part Hawaiian
504-509	Not Used
510	Samoan (Checkbox)
511	Samoan
512	Tahitian
513	Tongan
514	Polynesian
515	Tokelauan
516-519	Not Used

RACE—Con.

NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER (500-599)–Con.

Micronesian (520-529, 531-541)

520	Guamanian or Chamorro (Checkbox)
521	Guamanian
522	Chamorro
523-529	Not Used
530	See below under Other Pacific Islander
531	Mariana Islander
532	Marshallese
533	Palauan
534	Carolinian
535	Kosraean
536	Micronesian
537	Pohnpeian
538	Saipanese
539	Kirabati
540	Chuukese
541	Yapese

Melanesian (542-546)

542	Fijian
543	Melanesian
544	Papua New Guinean
545	Solomon Islander
546	New Hebrides

Other Pacific Islander (530, 547-599)

530	Other Pacific Islander (Checkbox)
547	Pacific Islander
548-549	Not Used
550	Multiple NATIVE HAWAIIAN and OTHER PACIFIC ISLANDER responses
551-599	Not Used

SOME OTHER RACE (600-999)

600	Some Other Race (Checkbox)
601	Argentinean
602	Bolivian
603	Not Used
604	Central American
605	Chicano
606	Chilean
607	Colombian
608	Costa Rican
609	Cuban
610	Ecuadorian
611	Salvadoran
612	Guatemalan
613	Hispanic
614	Honduran

RACE—Con.

SOME OTHER RACE (600-999)–Con.

615	Latin American
616	Mestizo
617	Mexican
618	Nicaraguan
619	Panamanian
620	Paraguayan
621	Peruvian
622	Puerto Rican
623	Morena
624	South American
625	Spanish
626	Spanish-American
627	Sudamericano
628	Uruguayan
629	Venezuelan
630	Spaniard
631	Tejano
632	Cayman Islander
633	Moroccan
634	North African
635	United Arab Emirates
636	South African/Afrikaner
637	Azerbaijani
638	Aryan
639	Not Used
640	Dominican/Dominican Republic
641	Dominica Islander
642	Belizean
643	Bermudan
644	Aruba Islander
645	Cayenne
646	Guyanese
647	Surinam
648	Sudanese
649	Amerasian
650	Eurasian
651	Brazilian
652	Brown
653	Bushwacker
654	Not Used
655	Cape Verdean
656	Chocolate
657	Coe Clan
658	Coffee
659	Cosmopolitan
660	Issues
661	Jackson White
662	Melungeon
663	Mixed
664	Ramp
665	Wesort
666	Mulatto
667	Moor

RACE—Con.

SOME OTHER RACE (600-999)–Con.

668	Biracial
669	Creole
670	Indian
671	Turk
672	Half-Breed
673	Rainbow
674	Octoroon
675	Quadroon
676	Multiracial
677	Interracial
678	Multiethnic
679	Multinational
680-689	Not Used
690	Multiple SOME OTHER RACE responses
691-698	Not Used
699	Other race, not elsewhere classified
700-999	Not Used

CENSUS 2000 STATE AND FOREIGN COUNTRY CODE LIST

(Note: This code list is used for place of birth, migration, and place of work.)

Codes	State and Foreign Country
001-059	**United States**
001	Alabama
002	Alaska
003	Not Used
004	Arizona
005	Arkansas
006	California
007	Not Used
008	Colorado
009	Connecticut
010	Delaware
011	District of Columbia
012	Florida
013	Georgia
014	Not Used
015	Hawaii
016	Idaho
017	Illinois
018	Indiana
019	Iowa
020	Kansas
021	Kentucky
022	Louisiana
023	Maine
024	Maryland
025	Massachusetts
026	Michigan
027	Minnesota
028	Mississippi
029	Missouri
030	Montana
031	Nebraska
032	Nevada
033	New Hampshire
034	New Jersey
035	New Mexico
036	New York
037	North Carolina
038	North Dakota
039	Ohio
040	Oklahoma
041	Oregon
042	Pennsylvania
043	Not Used
044	Rhode Island
045	South Carolina

Codes	State and Foreign Country
001-059	**United States—Con.**
046	South Dakota
047	Tennessee
048	Texas
049	Utah
050	Vermont
051	Virginia
052	Not Used
053	Washington
054	West Virginia
055	Wisconsin
056	Wyoming
057-059	Not Used
060-099	**U.S. Island Areas**
060	American Samoa
061-065	Not Used
066	Guam
067	Johnston Atoll
068	Not Used
069	Northern Marianas
070	Not Used
071	Midway Islands
072	Puerto Rico
073-075	Not Used
076	Navassa Island
077	Not Used
078	U.S. Virgin Islands
079	Wake Island
080	Not Used
081	Baker Island
082-083	Not Used
084	Howland Island
085	Not Used
086	Jarvis Island
087-088	Not Used
089	Kingman Reef
090-094	Not Used
095	Palmyra Atoll
096	U.S. Island Area not specified (Place of Work only)
097-099	Not Used
100-157, 160, 162-199	**Europe**
100	Albania
101	Andorra
102	Austria
103	Belgium
104	Bulgaria
105	Czechoslovakia
106	Denmark

Codes	State and Foreign Country
100-157, 160, 162-199	**Europe**—Con.
107	Faroe Islands
108	Finland
109	France
110	Germany
111-114	Not Used
115	Gibraltar
116	Greece
117	Hungary
118	Iceland
119	Ireland
120	Italy
121	Jan Meyan
122	Liechtenstein
123	Luxembourg
124	Malta
125	Monaco
126	Netherlands
127	Norway
128	Poland
129	Portugal
130	Azores Islands
131	Madeira Islands
132	Romania
133	San Marino
134	Spain
135	Svalbard
136	Sweden
137	Switzerland
138	United Kingdom
139	England
140	Scotland
141	Wales
142	Northern Ireland
143	Guernsey
144	Jersey
145	Isle of Man
146	Vatican City
147	Yugoslavia
148	Czech Republic
149	Slovakia
150	Bosnia and Herzegovina
151	Croatia
152	Macedonia
153	Slovenia
154	Serbia
155	Estonia
156	Latvia
157	Lithuania
160	Belarus

Codes	State and Foreign Country
100-157, 160, 162-199	**Europe**—Con.
162	Moldova
163	Russia
164	Ukraine
165	USSR
166	Europe
167	Kosovo
168-199	Not Used
158-159, 161, 200-299	**Asia**
158	Armenia
159	Azerbaijan
161	Georgia
200	Afghanistan
201	Bahrain
202	Bangladesh
203	Bhutan
204	Brunei
205	Myanmar (Burma)
206	Cambodia
207	China
208	Cyprus
209	Hong Kong
210	India
211	Indonesia
212	Iran
213	Iraq
214	Israel
215	Japan
216	Jordan
217	Korea
218	Kazakhstan
219	Kyrgyzstan
220	South Korea
221	North Korea
222	Kuwait
223	Laos
224	Lebanon
225	Macau
226	Malaysia
227	Maldives
228	Mongolia
229	Nepal
230	Oman
231	Pakistan
232	Paracel Islands
233	Philippines
234	Qatar
235	Saudi Arabia

Codes	State and Foreign Country
158-159, 161, 200-299	**Asia**—Con.
236	Singapore
237	Spratley Islands
238	Sri Lanka
239	Syria
240	Taiwan
241	Tajikistan
242	Thailand
243	Turkey
244	Turkmenistan
245	United Arab Emirates
246	Uzbekistan
247	Vietnam
248	Yemen
249	Asia
250-299	Not Used
300-399	**America**
300-302, 304-309	**Northern America**
300	Bermuda
301	Canada
302	Greenland
304	St Pierre & Miquelon
305	North America
306-309	Not Used
303, 310-399	**Latin America**
303, 310-319	**Central America**
303	Mexico
310	Belize
311	Costa Rica
312	El Salvador
313	Guatemala
314	Honduras
315	Nicaragua
316	Panama
317	Central America
318-319	Not Used
320-359	**Caribbean**
320	Anguilla
321	Antigua & Barbuda
322	Aruba
323	Bahamas
324	Barbados
325	British Virgin Islands
326	Cayman Islands
327	Cuba

Codes	State and Foreign Country
320-359	**Caribbean**—Con.
328	Dominica
329	Dominican Republic
330	Grenada
331	Guadeloupe
332	Haiti
333	Jamaica
334	Martinique
335	Montserrat
336	Netherlands Antilles
337	St Barthelemy
338	St Kitts-Nevis
339	St Lucia
340	St Vincent & the Grenadines
341	Trinidad & Tobago
342	Turks & Caicos Islands
343	West Indies
344-359	Not Used
360-399	**South America**
360	Argentina
361	Bolivia
362	Brazil
363	Chile
364	Colombia
365	Ecuador
366	Falkland Islands
367	French Guiana
368	Guyana
369	Paraguay
370	Peru
371	Suriname
372	Uruguay
373	Venezuela
374	South America
375-399	Not Used
400-499	**Africa**
400	Algeria
401	Angola
402	Benin
403	Botswana
404	British Indian Ocean Territory
405	Burkina Faso
406	Burundi
407	Cameroon
408	Cape Verde
409	Central African Republic
410	Chad
411	Comoros
412	Congo

Codes	State and Foreign Country
400-499	**Africa**—Con.
413	Djibouti
414	Egypt
415	Equatorial Guinea
416	Ethiopia
417	Eritrea
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
434	Mauritania
435	Mayotte
436	Morocco
437	Mozambique
438	Namibia
439	Niger
440	Nigeria
441	Reunion
442	Rwanda
443	Sao Tome & Principe
444	Senegal
445	Mauritius
446	Seychelles
447	Sierra Leone
448	Somalia
449	South Africa
450	St Helena
451	Sudan
452	Swaziland
453	Tanzania
454	Togo
455	Tromelin Island
456	Tunisia
457	Uganda
458	Western Sahara
459	Democratic Republic of Congo (Zaire)
460	Zambia
461	Zimbabwe
462	Africa
463-499	Not Used

Codes	State and Foreign Country
500-553	**Oceania**
500	Not Used
501	Australia
502	Christmas Island, Indian Ocean
503-504	Not Used
505	Cook Islands
506	Coral Sea Islands
507	Heard & McDonald Islands
508	Fiji
509	French Polynesia
510	Kiribati
511	Marshall Islands
512	Micronesia
513	Nauru
514	New Caledonia
515	New Zealand
516	Niue
517	Norfolk Island
518	Palau
519	Papua New Guinea
520	Pitcairn Islands
521	Solomon Islands
522	Tokelau
523	Tonga
524	Tuvalu
525	Vanuatu
526	Wallis & Futuna Islands
527	Samoa
528	Oceania
529-553	Not Used
554-999	**At Sea/Abroad, Not Specified**
554	At sea
555	Abroad, not specified (Place of Work only)
556-999	Not Used

Appendix H.
Topcoded Variables and Corresponding State Means for Values at and Above the Topcode for the Housing Record and Person Record

Table 1. **Topcoded Variables for the 1-Percent PUMS Housing Record**

States	Elec	Gas	Water	Oil	Rent	Mrt1 amt	Mr2t amt	Insamt	Conde fee	Mhcost
Topcode:										
United States	4800	3000	2000	2100	1700	3000	1100	2500	720	10000
Corresponding state means for values at and above the topcode:										
Alabama	5600	4500	2900	3300	2100	4600	1400	3100	0	14900
Alaska	5700	3900	2600	2900	1900	3500	1300	2800	0	11900
Arizona	5600	4100	2700	2900	2200	4000	1800	3400	1100	12400
Arkansas	5700	4500	2900	3200	2200	4000	1400	3500	1300	14200
California	5700	4200	2700	4000	2100	4100	1800	3500	1100	13200
Colorado	5800	4200	2600	3300	2100	4100	1600	3400	1100	11900
Connecticut	5700	3900	2700	2900	2500	4400	1700	3500	1300	13000
Delaware	5700	4000	2800	2600	2400	4000	1800	2900	1200	13800
District of Columbia	6000	4200	2900	2200	2200	4100	1400	3400	910	0
Florida	5600	4300	2700	3800	2200	4200	1800	3300	1100	13400
Georgia	5600	4100	2900	3300	2200	4000	1700	3300	1000	13300
Hawaii	5800	4400	2600	0	2200	4000	1700	3300	1000	0
Idaho	5800	4500	3400	3200	2100	4100	1800	3000	780	10700
Illinois	5800	4100	2800	3500	2100	3900	1600	3200	1000	12800
Indiana	5700	4300	3000	2800	2200	3900	1700	3200	1000	14000
Iowa	5600	4300	2900	3700	2200	3800	1400	3200	1400	13800
Kansas	5600	4300	3000	5000	2300	3800	1500	3100	1200	11800
Kentucky	5700	4600	3000	3000	2100	3900	1700	3000	880	14100
Louisiana	5800	4200	2900	4200	2000	3700	2000	3400	1300	14600
Maine	5700	4100	2900	3000	2300	3200	1200	2900	0	15400
Maryland	5600	4200	2700	3200	2200	3800	1700	3300	830	13500
Massachusetts	5700	3700	2500	2900	2100	4000	1700	3300	1200	13300
Michigan	5800	4000	2800	2700	2100	4200	1700	3300	1100	12400
Minnesota	5700	4000	3100	3000	2100	3800	1500	3200	1100	12100
Mississippi	5800	4400	2900	3100	2300	3600	1400	3100	1200	13600
Missouri	5900	4100	2800	3600	2300	3800	1700	3300	1000	12100
Montana	5800	3900	3700	2600	2000	5100	1200	3600	0	12600
Nebraska	5700	4300	2800	2900	1900	4100	1400	3500	1200	12700
Nevada	5700	4000	2800	2600	2100	4200	1700	3600	1000	12700
New Hampshire	5500	3800	2700	2900	2000	3500	1400	3300	960	13100
New Jersey	5600	3800	2600	3000	2200	4000	1700	3400	1100	11200
New Mexico	5800	4300	3100	3400	2100	4000	2900	3200	0	13400
New York	5600	3800	2700	3100	2300	4300	1800	3400	1100	12700
North Carolina	5600	4000	2800	3400	2200	4300	1900	3300	1000	13200
North Dakota	6300	3700	3500	2900	2100	4100	2000	3300	1300	12300
Ohio	5800	4100	2800	3300	2200	3800	1600	3500	1000	14300
Oklahoma	5900	4500	3000	3000	1900	3900	1200	3500	0	14500
Oregon	6000	4300	2800	3000	2000	3800	2000	3300	940	12300
Pennsylvania	5600	3900	2800	3000	2100	4000	1600	3300	980	13600
Rhode Island	5700	3900	2500	3000	2100	3500	1600	3300	0	0
South Carolina	5700	4100	2800	3200	2000	3700	1600	3400	1300	12600
South Dakota	5700	4200	3000	3500	0	4600	1600	3000	0	14100
Tennessee	5800	4200	2800	3400	2300	3700	2200	3300	1100	14900
Texas	5700	4500	2700	3600	2200	4100	1800	3200	1100	13100
Utah	6100	4200	2900	2600	2000	4400	1400	3400	1000	12900
Vermont	5800	4200	2700	3200	1900	3800	2000	3500	730	0
Virginia	5600	3900	2800	3000	2100	3800	1600	3100	1100	13300
Washington	5600	4000	2700	2900	2100	3700	1600	3400	1000	13000
West Virginia	5500	4900	3100	2800	1800	4500	1600	3600	0	14200
Wisconsin	5900	4100	2600	3100	2100	3900	1800	3200	1100	12200
Wyoming	5800	4900	2800	5000	2500	3500	1500	3300	850	10800
Puerto Rico	5800	4800	3000	3000	2600	3800	1500	3300	1300	11700

Table 2. **Topcoded Variables for the 1-Percent PUMS Person Record**

States	Age	Trvtime	Incws	Incse	Incint	Incss	Incssi	Incpa	Incret	Incoth
Topcode:										
United States	90	120	175000	126000	50000	18000	13800	12300	52000	37800
Corresponding state means for values at and above the topcode:										
Alabama	93	171	344000	255000	150000	26300	18000	20500	169000	64000
Alaska	94	175	323000	227000	169000	24800	23300	18000	150000	47200
Arizona	93	174	318000	249000	132000	24000	17100	21500	110000	65000
Arkansas	93	170	320000	266000	147000	25700	18400	20800	123000	65000
California	93	156	330000	263000	134000	23800	17800	19400	117000	63000
Colorado	92	170	333000	222000	113000	24600	18300	21100	102000	63000
Connecticut	93	156	342000	225000	131000	22900	18100	23400	105000	63000
Delaware	92	168	326000	188000	146000	23500	17900	16800	107000	52000
District of Columbia	93	169	343000	290000	203000	26100	16700	27000	86000	75000
Florida	93	170	324000	248000	134000	23900	17900	20500	102000	62000
Georgia	93	171	319000	243000	131000	25400	19700	21000	99000	61000
Hawaii	93	157	318000	195000	132000	24000	16200	17800	95000	59000
Idaho	92	172	297000	280000	180000	24000	17600	14100	109000	68000
Illinois	93	161	322000	266000	131000	23700	18500	23200	135000	61000
Indiana	93	169	324000	264000	143000	24200	19700	25800	176000	58000
Iowa	93	172	311000	224000	136000	27300	15800	20300	162000	58000
Kansas	93	169	319000	192000	118000	23400	17300	21000	169000	58000
Kentucky	93	169	332000	238000	124000	26200	19600	25800	205000	67000
Louisiana	93	172	319000	227000	120000	25000	20200	19000	143000	56000
Maine	93	163	298000	306000	160000	24600	20900	19800	132000	81000
Maryland	93	163	328000	232000	156000	23700	18500	18700	81000	62000
Massachusetts	93	165	310000	249000	111000	23700	16900	19900	117000	68000
Michigan	93	171	305000	261000	129000	24200	16200	19700	172000	61000
Minnesota	93	170	336000	223000	134000	23900	17000	23300	93000	62000
Mississippi	93	174	329000	232000	118000	23400	17600	30000	159000	62000
Missouri	93	171	312000	198000	121000	24600	18300	23800	157000	67000
Montana	92	170	229000	228000	146000	24700	18300	26100	146000	58000
Nebraska	92	162	340000	233000	94000	23600	16400	20100	115000	60000
Nevada	92	170	322000	310000	135000	23500	17500	22700	92000	61000
New Hampshire	93	159	294000	227000	117000	24500	17700	27100	97000	67000
New Jersey	93	153	317000	247000	139000	23600	17000	20400	133000	66000
New Mexico	92	166	305000	223000	148000	25300	20300	18300	92000	66000
New York	93	154	330000	262000	137000	23400	17600	19000	120000	63000
North Carolina	93	170	307000	264000	114000	24700	18200	19500	122000	62000
North Dakota	92	172	325000	197000	119000	20800	20200	26500	227000	70000
Ohio	93	166	317000	242000	126000	23100	17700	23200	143000	62000
Oklahoma	93	174	337000	289000	132000	24300	17400	20000	184000	68000
Oregon	93	176	309000	230000	134000	23600	19000	25400	101000	62000
Pennsylvania	93	164	303000	245000	137000	24000	18400	21600	130000	62000
Rhode Island	93	169	291000	205000	137000	24600	16800	18000	86000	51000
South Carolina	93	173	286000	251000	130000	23300	17400	21500	121000	62000
South Dakota	93	170	339000	185000	97000	22400	25300	22300	71000	49900
Tennessee	93	171	320000	255000	154000	25800	19700	21700	160000	68000
Texas	93	169	320000	258000	136000	24300	18200	21100	125000	62000
Utah	93	165	287000	232000	152000	25700	17000	21900	162000	58000
Vermont	92	170	391000	289000	97000	26600	23200	28800	190000	64000
Virginia	93	163	319000	267000	133000	25200	19900	19300	103000	60000
Washington	93	161	297000	253000	150000	23800	17200	20700	119000	55000
West Virginia	92	164	372000	236000	181000	25000	18500	19000	184000	66000
Wisconsin	93	174	309000	240000	131000	24300	17200	22400	140000	67000
Wyoming	92	176	344000	174000	128000	22800	16600	19800	174000	44900
Puerto Rico	94	142	375000	242000	244000	25200	20400	18800	166000	75000

Appendix I.
Total Unweighted and Weighted Population and Housing Counts for the 1-Percent PUMS Files

Control Counts

State	Total population unweighted	Total housing unweighted	Total population weighted	Total housing weighted
Alabama	44487	19637	4445562	1963448
Alaska	6422	2610	628493	261389
Arizona	51901	21892	5129713	2189281
Arkansas	26978	11731	2675687	1173605
California	338725	122146	33879320	12217313
Colorado	43135	18081	4301983	1808330
Connecticut	34118	13860	3406431	1386039
Delaware	7786	3430	783683	343123
District of Columbia	5770	2748	572781	274971
Florida	159704	73029	15985411	7303716
Georgia	81446	32818	8186026	3282330
Hawaii	12218	4606	1211064	460544
Idaho	13112	5279	1293454	527912
Illinois	123613	48857	12420669	4885588
Indiana	60669	25323	6076995	2531689
Iowa	29212	12324	2923524	1231936
Kansas	26767	11312	2687848	1131091
Kentucky	40217	17509	4041737	1750944
Louisiana	44538	18472	4470170	1847377
Maine	12877	6519	1274571	651752
Maryland	52764	21452	5297739	2146221
Massachusetts	63760	26219	6349715	2622935
Michigan	99184	42342	9934066	4233707
Minnesota	49780	20659	4920116	2065465
Mississippi	28446	11620	2845775	1162028
Missouri	56051	24420	5592082	2441456
Montana	9151	4127	902423	412894
Nebraska	17161	7227	1710928	722261
Nevada	20065	8275	1997348	827116
New Hampshire	12430	5470	1236607	547217
New Jersey	84117	33104	8415300	3310587
New Mexico	18252	7805	1817529	780330
New York	191433	76792	18983859	7679205
North Carolina	80013	35239	8051878	3524458
North Dakota	6513	2896	641973	289735
Ohio	114188	47831	11348399	4781667
Oklahoma	34710	15144	3448453	1513732
Oregon	34489	14527	3421058	1452244
Pennsylvania	123939	52498	12278752	5249144
Rhode Island	10477	4398	1049009	439915
South Carolina	39934	17536	4011747	1753413
South Dakota	7585	3231	754916	323061
Tennessee	56712	24394	5689611	2439128
Texas	208074	81576	20847368	8155903
Utah	22521	7685	2233454	768567
Vermont	6216	2943	609494	294664
Virginia	70353	29042	7075548	2903851
Washington	59150	24510	5898525	2452309
West Virginia	18034	8445	1806466	844261
Wisconsin	54397	23211	5363219	2320687
Wyoming	5050	2239	493427	224102
Puerto Rico	38111	14184	3808610	1418476

Appendix J.
Equivalency Files

The Equivalency Files are available at—
http://www2.census.gov/census_2000/datasets/PUMS/OnePercent.

Appendix K. Relationship Between Super-PUMAs of Migration (MIGPUMA1) and Super-PUMAs (PUMA1)

State code (FIPS)	State name	Super-PUMA of Migration (MIGPUMA1)	Super-PUMA (PUMA1)
01	Alabama	01100	01100
		01200	01200
		01300	01300
		01400	01400
		01500	01500
		01600	01600
		01700	01701-01702
02	Alaska	02100	02100
04	Arizona	04100	04100
		04200	04200
		04300	04301-04306
		04400	04401-04402
05	Arkansas	05100	05100
		05200	05200
		05300	05300
		05400	05400
		05500	05500
06	California	06010	06010
		06020	06020
		06030	06030
		06040	06040
		06050	06050
		06069	06060-06072
		06080	06080
		06090	06090
		06100	06100
		06110	06110
		06120	06121-06122
		06130	06130
		06140	06140
		06150	06151-06153
		06160	06161-06163
		06170	06170
		06180	06180
		06190	06190
		06200	06201-06203
		06210	06210
		06220	06220
		06230	06230
		06309	06301-06411

State code (FIPS)	State name	Super-PUMA of Migration (MIGPUMA1)	Super-PUMA (PUMA1)
06	California—Con.		
		06500	06501-06505
		06600	06601-06603
		06700	06701-06705
08	Colorado	08100	08101-08104
		08200	08201-08205
09	Connecticut	09100	09100
		09200	09200
		09300	09300
		09400	09400
		09500	09500
		09600	09600
10	Delaware	10100	10100
11	District of Columbia	11100	11100
12	Florida	12010	12010
		12020	12020
		12030	12030
		12040	12040
		12050	12051-12052
		12060	12060
		12070	12070
		12081	12081
		12088	12082-12083
		12089	12084-12085
		12091	12091
		12099	12092-12093
		12100	12100
		12110	12110
		12120	12120
		12130	12130
		12140	12140
		12150	12150
		12160	12161-12162
		12170	12171-12173
		12180	12181-12185
13	Georgia	13010	13010
		13020	13020
		13030	13030
		13040	13040
		13050	13050
		13060	13060
		13070	13070
		13080	13080
		13090	13090
		13100	13100
		13110	13110
		13120	13120

State code (FIPS)	State name	Super-PUMA of Migration (MIGPUMA1)	Super-PUMA (PUMA1)
13	Georgia—Con.		
		13130	13130
		13140	13140
		13150	13150
15	Hawaii	15100	15101-15102
16	Idaho	16100	16100
		16200	16200
		16300	16300
17	Illinois	17010	17010
		17020	17020
		17030	17030
		17040	17040
		17050	17050
		17060	17060
		17070	17070
		17080	17080
		17090	17090
		17100	17100
		17200	17201-17202
		17300	17300
		17409	17401-17505
18	Indiana	18010	18010
		18020	18020
		18030	18030
		18040	18040
		18050	18050
		18060	18060
		18070	18070
		18080	18080
		18090	18091-18092
		18100	18100
		18110	18110
19	Iowa	19100	19100
		19200	19200
		19300	19300
		19400	19400
		19500	19500
20	Kansas	20100	20100
		20200	20200
		20300	20300
		20400	20400
		20500	20500
21	Kentucky	21100	21100
		21200	21200
		21300	21300
		21400	21400
		21500	21500

State code (FIPS)	State name	Super-PUMA of Migration (MIGPUMA1)	Super-PUMA (PUMA1)
21	Kentucky—Con		
		21600	21600
		21700	21700
22	Louisiana	22100	22100
		22200	22200
		22300	22300
		22400	22400
		22500	22500
		22600	22600
		22700	22701-22702
		22800	22800
23	Maine	23100	23100
		23200	23200
24	Maryland	24100	24100
		24200	24201-24202
		24300	24300
		24400	24401-24404
		24500	24501-24502
25	Massachusetts	25010	25010
		25020	25020
		25030	25030
		25040	25040
		25050	25050
		25060	25060
		25070	25070
		25080	25080
		25090	25090
		25100	25100
		25110	25110
		25120	25120
		25130	25130
26	Michigan	26010	26010
		26020	26020
		26030	26030
		26040	26040
		26050	26051-26052
		26069	26060, 26100
		26070	26070
		26080	26080
		26090	26090
		26110	26110
		26120	26121-26124
		26130	26131-26134
27	Minnesota	27100	27100
		27200	27200
		27300	27300
		27400	27400

State code (FIPS)	State name	Super-PUMA of Migration (MIGPUMA1)	Super-PUMA (PUMA1)
27	Minnesota—Con.		
		27500	27500
		27600	27600
		27700	27710-27720
		27800	27800
		27900	27900
28	Mississippi	28100	28100
		28200	28200
		28300	28300
		28400	28400
		28500	28500
		28600	28600
29	Missouri	29100	29100
		29200	29200
		29309	29300-29400
		29500	29500
		29600	29600
		29700	29701-29702
		29800	29800
		29900	29900
30	Montana	30100	30100
		30200	30200
31	Nebraska	31100	31100
		31200	31201-31202
32	Nevada	32100	32100
		32200	32201-32203
33	New Hampshire	33100	33100
		33200	33200
34	New Jersey	34010	34011-34012
		34020	34020
		34030	34030
		34040	34041-34042
		34050	34050
		34060	34060
		34070	34070
		34080	34080
		34090	34090
		34100	34101-34102
		34110	34110
		34120	34120
35	New Mexico	35100	35100
		35200	35200
		35300	35300
		35400	35400

State code (FIPS)	State name	Super-PUMA of Migration (MIGPUMA1)	Super-PUMA (PUMA1)
36	New York	36010	36010
		36020	36021-36022
		36030	36030
		36040	36041-36042
		36050	36051-36052
		36060	36060
		36070	36070
		36080	36081-36085
		36090	36091-36092
		36100	36101-36103
		36110	36111-36114
		36120	36121-36125
		36130	36130
		36140	36141-36143
		36150	36151-36153
37	North Carolina	37010	37010
		37020	37020
		37030	37030
		37040	37040
		37050	37050
		37060	37060
		37070	37070
		37089	37080, 37100
		37090	37090
		37110	37110
		37120	37120
		37130	37130
		37140	37140
38	North Dakota	38100	38100
39	Ohio	39010	39010
		39020	39020
		39030	39030
		39040	39040
		39050	39050
		39060	39061-39063
		39070	39070
		39080	39080
		39090	39090
		39100	39100
		39110	39110
		39120	39120
		39130	39130
		39140	39141-39142
		39150	39150
		39160	39160
		39170	39171-39172
		39180	39180

State code (FIPS)	State name	Super-PUMA of Migration (MIGPUMA1)	Super-PUMA (PUMA1)
40	Oklahoma	40100	40100
		40200	40201-40202
		40309	40300-40400
		40500	40500
41	Oregon	41100	41100
		41200	41200
		41300	41300
		41400	41400
		41500	41501-41503
42	Pennsylvania	42010	42010
		42020	42020
		42030	42030
		42040	42040
		42050	42050
		42060	42060
		42070	42071-42073
		42080	42080
		42090	42090
		42100	42100
		42110	42110
		42120	42120
		42130	42130
		42140	42140
		42150	42151-42153
		42160	42160
		42170	42170
		42180	42180
		42190	42190
44	Rhode Island	44100	44100
		44200	44200
45	South Carolina	45100	45100
		45200	45200
		45300	45300
		45400	45400
		45500	45500
		45600	45600
		45700	45700
		45800	45800
46	South Dakota	46100	46100
47	Tennessee	47010	47010
		47020	47020
		47030	47030
		47040	47040
		47050	47050
		47060	47060
		47070	47070
		47080	47081-47082
		47090	47090
		47100	47101-47102

State code (FIPS)	State name	Super-PUMA of Migration (MIGPUMA1)	Super-PUMA (PUMA1)
48	Texas	48010	48010
		48020	48020
		48030	48030
		48040	48040
		48050	48050
		48060	48060
		48070	48070
		48080	48080
		48090	48090
		48100	48101-48104
		48110	48111-48113
		48120	48120
		48130	48130
		48140	48140
		48150	48150
		48160	48160
		48170	48170
		48180	48181-48187
		48190	48190
		48200	48200
		48210	48210
		48220	48221-48222
		48230	48231-48233
		48240	48240
		48259	48250-48260
		48270	48270
49	Utah	49100	49100
		49200	49200
		49300	49301-49302
50	Vermont	50100	50100
51	Virginia	51010	51011-51012
		51020	51020
		51030	51030
		51040	51040
		51050	51050
		51060	51060
		51070	51070
		51080	51080
		51090	51090
		51100	51100
		51110	51110
		51120	51120

State code (FIPS)	State name	Super-PUMA of Migration (MIGPUMA1)	Super-PUMA (PUMA1)
53	Washington	53010	53010
		53020	53020
		53030	53030
		53040	53040
		53050	53050
		53060	53060
		53079	53070-53082
		53090	53090
		53100	53100
55	Wisconsin	55100	55100
		55200	55200
		55300	55300
		55400	55400
		55500	55500
		55600	55600
		55700	55700
		55809	55800-55900
56	Wyoming	56100	56100
72	Puerto Rico	72100	72100
		72200	72200
		72300	72300
		72400	72400
		72500	72500
		72600	72600
		72700	72700
		72800	72800

Appendix L. Relationship Between Super-PUMAs of Place of Work (POWPUMA1) and Super-PUMAs (PUMA1)

State code (FIPS)	State name	Place of work Super-PUMA (POWPUMA1)	Super-PUMA (PUMA1)
01	Alabama	01100	01100
		01200	01200
		01300	01300
		01400	01400
		01500	01500
		01600	01600
		01700	01701-01702
02	Alaska	02100	02100
04	Arizona	04100	04100
		04200	04200
		04300	04301-04306
		04400	04401-04402
05	Arkansas	05100	05100
		05200	05200
		05300	05300
		05400	05400
		05500	05500
06	California	06010	06010
		06020	06020
		06030	06030
		06040	06040
		06050	06050
		06060	06060
		06070	06071-06072
		06080	06080
		06090	06090
		06100	06100
		06110	06110
		06120	06121-06122
		06130	06130
		06140	06140
		06150	06151-06153
		06160	06161-06163
		06170	06170
		06180	06180
		06190	06190
		06200	06201-06203
		06210	06210
		06220	06220
		06230	06230

State code (FIPS)	State name	Place of work Super-PUMA (POWPUMA1)	Super-PUMA (PUMA1)
06	California—Con.		
		06309	06301-06408, 06410-06411
		06409	06409
		06500	06501-06505
		06600	06601-06603
		06700	06701-06705
08	Colorado	08100	08101-08104
		08200	08201-08205
09	Connecticut	09100	09100
		09200	09200
		09300	09300
		09400	09400
		09500	09500
		09600	09600
10	Delaware	10100	10100
11	District of Columbia	11100	11100
12	Florida	12010	12010
		12020	12020
		12030	12030
		12040	12040
		12050	12051-12052
		12060	12060
		12070	12070
		12081	12081
		12088	12082-12083
		12089	12084-12085
		12091	12091
		12099	12092-12093
		12100	12100
		12110	12110
		12120	12120
		12130	12130
		12140	12140
		12150	12150
		12160	12161-12162
		12170	12171-12173
		12180	12181-12185
13	Georgia	13010	13010
		13020	13020
		13030	13030
		13040	13040
		13050	13050
		13060	13060
		13070	13070
		13080	13080
		13090	13090

State code (FIPS)	State name	Place of work Super-PUMA (POWPUMA1)	Super-PUMA (PUMA1)
13	Georgia—Con.		
		13100	13100
		13110	13110
		13120	13120
		13130	13130
		13140	13140
		13150	13150
15	Hawaii	15100	15101-15102
16	Idaho	16100	16100
		16200	16200
		16300	16300
17	Illinois	17010	17010
		17020	17020
		17030	17030
		17040	17040
		17050	17050
		17060	17060
		17070	17070
		17080	17080
		17090	17090
		17100	17100
		17200	17201-17202
		17300	17300
		17400	17401-17405
		17500	17501-17505
18	Indiana	18010	18010
		18020	18020
		18030	18030
		18040	18040
		18050	18050
		18060	18060
		18070	18070
		18080	18080
		18090	18091-18092
		18100	18100
		18110	18110
19	Iowa	19100	19100
		19200	19200
		19300	19300
		19400	19400
		19500	19500
20	Kansas	20100	20100
		20200	20200
		20300	20300
		20400	20400
		20500	20500

State code (FIPS)	State name	Place of work Super-PUMA (POWPUMA1)	Super-PUMA (PUMA1)
21	Kentucky	21100	21100
		21200	21200
		21300	21300
		21400	21400
		21500	21500
		21600	21600
		21700	21700
22	Louisiana	22100	22100
		22200	22200
		22300	22300
		22400	22400
		22500	22500
		22600	22600
		22700	22701-22702
		22800	22800
23	Maine	23100	23100
		23200	23200
24	Maryland	24100	24100
		24200	24201-24202
		24300	24300
		24400	24401-24404
		24500	24501-24502
25	Massachusetts	25010	25010
		25020	25020
		25030	25030
		25040	25040
		25050	25050
		25060	25060
		25070	25070
		25080	25080
		25090	25090
		25100	25100
		25110	25110
		25120	25120
		25130	25130
26	Michigan	26010	26010
		26020	26020
		26030	26030
		26040	26040
		26051	26051
		26052	26052
		26060	26060
		26070	26070
		26080	26080
		26090	26090
		26100	26100
		26110	26110

State code (FIPS)	State name	Place of work Super-PUMA (POWPUMA1)	Super-PUMA (PUMA1)
26	Michigan—Con.		
		26121	26121
		26122	26122
		26129	26123-26124
		26132	26132
		26133	26133
		26139	26131, 26134
27	Minnesota	27100	27100
		27200	27200
		27300	27300
		27400	27400
		27500	27500
		27600	27600
		27700	27710-27720
		27800	27800
		27900	27900
28	Mississippi	28100	28100
		28200	28200
		28300	28300
		28400	28400
		28500	28500
		28600	28600
29	Missouri	29100	29100
		29200	29200
		29300	29300
		29400	29400
		29500	29500
		29600	29600
		29700	29701-29702
		29800	29800
		29900	29900
30	Montana	30100	30100
		30200	30200
31	Nebraska	31100	31100
		31200	31201-31202
32	Nevada	32100	32100
		32200	32201-32203
33	New Hampshire	33100	33100
		33200	33200
34	New Jersey	34011	34011
		34012	34012
		34020	34020
		34030	34030
		34040	34040
		34050	34050
		34060	34060

State code (FIPS)	State name	Place of work Super-PUMA (POWPUMA1)	Super-PUMA (PUMA1)
34	New Jersey—Con.		
		34070	34070
		34080	34080
		34090	34090
		34101	34101
		34102	34102
		34110	34110
		34120	34120
35	New Mexico	35100	35100
		35200	35200
		35300	35300
		35400	35400
36	New York	36010	36010
		36020	36021-36022
		36030	36030
		36040	36041-36042
		36051	36051
		36052	36052
		36060	36060
		36070	36070
		36082	36082
		36085	36085
		36089	36081, 36083-36084
		36090	36091-36092
		36100	36101-36103
		36110	36111-36114
		36120	36121-36125
		36130	36130
		36140	36141-36143
		36152	36152
		36159	36151, 36153
37	North Carolina	37010	37010
		37020	37020
		37030	37030
		37040	37040
		37050	37050
		37060	37060
		37070	37070
		37080	37080
		37090	37090
		37100	37100
		37110	37110
		37120	37120
		37130	37130
		37140	37140
38	North Dakota	38100	38100

State code (FIPS)	State name	Place of work Super-PUMA (POWPUMA1)	Super-PUMA (PUMA1)
39	Ohio	39010	39010
		39020	39020
		39030	39030
		39040	39040
		39050	39050
		39060	39061-39063
		39070	39070
		39080	39080
		39090	39090
		39100	39100
		39110	39110
		39120	39120
		39130	39130
		39140	39141-39142
		39150	39150
		39160	39160
		39170	39171-39172
		39180	39180
40	Oklahoma	40100	40100
		40201	40201
		40202	40202
		40300	40300
		40400	40400
		40500	40500
41	Oregon	41100	41100
		41200	41200
		41300	41300
		41400	41400
		41500	41501-41503
42	Pennsylvania	42010	42010
		42020	42020
		42030	42030
		42040	42040
		42050	42050
		42060	42060
		42070	42071-42073
		42080	42080
		42090	42090
		42100	42100
		42110	42110
		42120	42120
		42130	42130
		42140	42140
		42150	42151-42153
		42160	42160
		42170	42170
		42180	42180
		42190	42190

State code (FIPS)	State name	Place of work Super-PUMA (POWPUMA1)	Super-PUMA (PUMA1)
44	Rhode Island	44100	44100
		44200	44200
45	South Carolina	45100	45100
		45200	45200
		45300	45300
		45400	45400
		45500	45500
		45600	45600
		45700	45700
		45800	45800
46	South Dakota	46100	46100
47	Tennessee	47010	47010
		47020	47020
		47030	47030
		47040	47040
		47050	47050
		47060	47060
		47070	47070
		47080	47081-47082
		47090	47090
		47100	47101-47102
48	Texas	48010	48010
		48020	48020
		48030	48030
		48040	48040
		48050	48050
		48060	48060
		48070	48070
		48080	48080
		48090	48090
		48100	48101-48104
		48110	48111-48113
		48120	48120
		48130	48130
		48140	48140
		48150	48150
		48160	48160
		48170	48170
		48180	48181-48187
		48190	48190
		48200	48200
		48210	48210
		48220	48221-48222
		48230	48231-48233
		48240	48240
		48250	48250
		48260	48260
		48270	48270

State code (FIPS)	State name	Place of work Super-PUMA (POWPUMA1)	Super-PUMA (PUMA1)
49	Utah	49100	49100
		49200	49200
		49300	49301-49302
50	Vermont	50100	50100
51	Virginia	51010	51011-51012
		51020	51020
		51030	51030
		51040	51040
		51050	51050
		51060	51060
		51070	51070
		51080	51080
		51090	51090
		51100	51100
		51110	51110
		51120	51120
53	Washington	53010	53010
		53020	53020
		53030	53030
		53040	53040
		53050	53050
		53060	53060
		53070	53070
		53080	53081-53082
		53090	53090
		53100	53100
54	West Virginia	54100	54100
		54200	54200
		54300	54300
55	Wisconsin	55100	55100
		55200	55200
		55300	55300
		55400	55400
		55500	55500
		55600	55600
		55700	55700
		55800	55800
		55900	55900
56	Wyoming	56100	56100
72	Puerto Rico	72100	72100
		72200	72200
		72300	72300
		72400	72400
		72500	72500
		72600	72600
		72700	72700
		72800	72800

Acknowledgments

The Office of the Associate Director for Decennial Census, **John H. Thompson,** Associate Director for Decennial Census; **Preston Jay Waite,** Assistant Director for Decennial Census; **Carolee Bush, Mimi L. Born,** Special Assistants; **Oscar G. Farah,** Decennial Systems Architecture and Integration Manager; **Robert Fay,** Senior Mathematical Statistician; **William Bell,** Senior Mathematical Statistician for Small Area Estimation; **Elizabeth Martin,** Senior Researcher for Survey Methodology.

Gloria Gutierrez, Assistant Director for Marketing and Customer Liaison; **LaVerne V. Collins,** Assistant to the Associate Director for Communications; **Kenneth C. Meyer,** Special Assistant, Office of the Associate Director for Communications.

The Decennial Management Division, **Susan M. Miskura,** Division Chief; **Teresa Angueira,** Lead Assistant Division Chief; **M. Catherine Miller,** Assistant Division Chief for Decennial Communications; **Miguel B. Perez,** Assistant Division Chief for Budget and Management Information Systems; **A. Edward Pike, III,** Assistant Division Chief for Systems, Geography and Content Programs; **Edison Gore,** Assistant Division Chief for Field Programs; **Fay F. Nash,** Assistant Division Chief for Statistical Design/Special Census Programs. Branch Chiefs and Staff: **Wilfredo Sauri Garcia, Kathleen M. Halterman, Idabelle B. Hovland, Jane H. Ingold, Agnes S. Kee, Edward L. Kobilarcik, Paulette M. Lichtman-Panzer, Carol M. Miller, William E. Norfolk, Burton H. Reist, Barbara S. Tinari, Maria E Urrutia, Violeta Vazquez, Andrew W. Visnansky.** Other Contributors: **Leonard R. Baer, Ramala Basu, William D. Biggar, Nicholas I. Birnbaum, Joanne L. Bluhm, Tasha R. Boone, Sharon K. Boyer, Sarah E. Brady, Carol Briggs, Andrea F. Brinson, Julia Buckley-Ess, Geneva A. Burns, Bennie K. Butler, Rochelle Carpenter, Edmund J. Coan, Jr., David A. Coon, Donnesha Y. Correll, Karen A. Crook, Enid Cruz-Mirabal, Alex E. Cutter, KaTrina J. Dandie, Gail S. Davidson, Sherry P. Deskins, Gretchen A. Dickson, Mark E. Dickson, William B. Eaton, Richard T. Edwards, Cynthia R. Eurich, Karen S. Fields, Lourdes N. Flaim, Linda Flores-Baez, Charles F. Fowler, III, Wallace Fraser, Gemma M. Furno, Alfred Gigletto, John W. Gloster, Tere M. Glover, Audrian J. Gray, Mark T. Gray, Annette M. Guevarez, Rebecca J. Halterman, Carolyn L. Hampton, Catherine J. Hartz, Anne Jones, Doris M. Kling, Debra A. Latham, Douglas M. Lee, Charles T. Lee, Jr., Vanessa M. Leuthold, Raymond N. Loftin, Jeannie A. McClees, Joy McLaughlin, Karen S. Medina, Hector X. Merced, Lourdes M. Morales, Laureen H. Moyer, Margarita M. Musquiz, Jaime Nazario-Perez, Jo Ann Norris, Ivonne Pabon-Marrero, Deborah Padua-Ferris, Eloise K. Parker, Alicia E. Pickett, Ann Quarzo, Annette M. Quinlan, Monica L. Rodia, Denise Sanders, Monique V. Sanders, Glenn C. Schneider, Clayton D. Spangenberg, Darlene L. Stewart, Kathleen J. Stoner, Shirley H. Stover, Myss R. Sykes, Wanda J. Thomas, Maura E. Tipping, Nichole Tillman, Nevalle Wade, Shelley A. Walker, Sherri M. Walker, Marcia S. Willhide.**

The Decennial Systems and Contracts Management Office, **Michael J. Longini,** Division Chief; **Edwin B. Wagner, Jr.,** Deputy Division Chief; **Alan J. Berlinger,** Assistant Division Chief for Data Capture Program; **J. Gary Doyle,** Assistant Division Chief for Systems Integration; **Patricia Kelly,** Assistant Division Chief for 2000 Printing Contracts; **Michael L. Palensky,** Assistant Division Chief for Acquisition Division; **Robert A. Rinaldi,** Assistant Division Chief for Automation Infrastructure; **Dennis W. Stoudt,** Assistant Division Chief for Processing and Support. Branch and Staff Chiefs: **Curtis Broadway, Danny Burkhead, Neil Thomas Cotton, Don Danbury, Wendy D. Hicks, Donald R. Dwyer, Ben Eng, Suzanne Fratino, Pauline C. Hanson, Carolyn Hay, Robert J. Hemmig, James Marsden, Warren McKay, George H. McLaughlin, William L. Peil, William Russell, David Sliom, Emmett F. Spiers, Marie P. Sudik, Tracy Wessler. Other Contributors: Carolyn G. Blackford, Mary Louise Bohle, Jean M. Clark,**

Michael Clark, Jack F. Davis, Gladys V. Davis, Julia B. Dickens, Michael S. Dugan, William A. Eng, Diana L. Giffin, Margaret E. Goldsmith, Charles J. Kahn, Ellen B. Katzoff, Sunhak Kim, Patricia L. Kirk, Andrew P. Kraynak, Sandra L. Lantz, Brenda F. Lukenich, Patricia Madson, Caroline S. Magill, Karen K. Mitchell, Gerard Moore, Patrick J. Mulcahy, Duc Mong Nguyen, Robert A. Peregoy, Mary S. Petrocci, Dan E. Philipp, Phyllis Simard, Frances A. Simmons, Johanne M. Stovall, David A. Tabaska, Jess D. Thompson, Mary M. Tucker, Michael T. Wharton, Mary M. Wright.

The Data Access and Dissemination System Office, **E. Enrique Gomez,** Division Chief; **William K. Stuart,** Assistant Division Chief. Branch and Staff Chiefs: **Harold M. Brooks, Jack F. Davis, Mark I. Kronisch, Peter Rosenson, Sandra K. Rowland.** Other Contributors: **Susan Ann Baptist, Amy M. Bishton, Marian E. Brady, Rosalie A. Britt, John K. Butler, Jr., Raymond W. Davis, Radine L. Desperes, Karen S. Dutterer, Janis A. Ennis, Sharon K. Fortuna, Beverly B. Fransen, Jean M. Haynes, Jennifer L. Holland, Eugene M. Rashlich, Aric G. Smarra, Joann M. Sutton, Doung D. To, Berlyn Wheeler, Margaret G. Williams.**

The Decennial Statistical Studies Division, **Howard Hogan,** Division Chief; **Jon Clark,** Assistant Division Chief for Census Design; **Maureen P. Lynch,** Assistant Division Chief for Coverage Measurement Processing; **Donna Kostanich,** Assistant Division Chief for Sampling and Estimation; **Rajendra Singh,** Assistant Division Chief for Statistical Communications; **David C. Whitford,** Assistant Division Chief for Statistical Program Management; **Barbara Walter,** Special Assistant to the Division Chief. Branch Chiefs: **Nicholas Alberti, Patrick Cantwell, Danny Childers, Deborah Fenstermaker, Philip M. Gbur, Richard Griffin, Charisse E. Jones, Marjorie Martinez, Alfredo Navarro, Magdalena Ramos, Jennifer Reichert, James Treat.** Other Contributors: **Tamara Adams, Paula Anderson, Mark Asiala, Susan Atha, Diane Barrett, Stephanie Baumgardner, Michael Beaghen, Rosemary Byrne, Kathy Rae Carlers, Nathan Carter, Inez Chen, John Chesnut, Kara Morgan Clarke, Ryan Cromar, Peter Davis, Charles R. Dimitri, Carl Durant, Lisa Fairchild, James Farber, Golam Farooque, Roxanne Feldpausch, Patricia Fisher, Courtney Ford, Rhonda Geddings, Greg Golebiewski, Alicia Green, Dawn E. Haines, Kevin Haley, Steven Hefter, John Hilton, Maria Cupples Hudson, Jerry Imel, Lynn Imel, Meiliawati Iskandar, Levern Jacobs, Jr., Carrie Johanson, Kimball Jonas, John Jones, Loleysa Kelly, Jae Kwang Kim, Felipe Kohn, Bau Le, Xijian Liu, Anne McGaughey, Dave McGrath, Tracey McNally, Vincent T. Mule, Jr., Nganha Nguyen, Susan Odell, Broderick Oliver, Doug Olson, Robin A. Pennington, Rebecca Piegari, Barbara Ray, Miriam Rosenthal, Matthew Salganik, Robert Sands, Eric Schindler, Shuping Shen, Dave Sheppard, Roger Shores, Charles D. Sissel, Damon Smith, Phawn Stallone, Michael Starsinic, Martha Sutt, Michael Tenebaum, Ana Valentin, Joseph G. VanNest, Mark Viator, Erin Whitworth, Glenn Wolfgang, Kevin Zajac, Mary Frances Zelenak, Randal ZuWallack.**

The Housing and Household Economic Statistics Division, **Daniel H. Weinberg,** Division Chief; **Leonard J. Norry,** Assistant Division Chief for Housing Characteristics; **Charles T. Nelson,** Assistant Division Chief for Income, Poverty, and Health Statistics; **Stephanie S. Shipp,** Assistant Division Chief for Labor Force Statistics and Outreach; **Richard A. Denby,** Assistant Division Chief for Estimation, Processing, and Programming. Branch Chiefs, Staff Chiefs, and Special Assistants: **Larry L. Beasley, Donald R. Dalzell, Peter J. Fronczek, Patricia A. Johnson, Susan P. Love, John M. McNeil, Mary Naifeh, Thomas J. Palumbo, Lydia Scoon-Rogers, Thomas S. Scopp, Edward J. Welniak, Jeanne M. Woodward.** Other Contributors: **Laura Adler, Elaine M. Anderson, Jana L. Asher, John T. Baker, II, Dana A. Bradley, Robert L. Bennefield, Donna Benton, Joanne Binette, Helen Bohle, Ester Buckles, Mary Thrift Bush, Stephen L. Campbell, Charita Castro, Linda B. Cavanaugh, William S. Chapin, Joan M. Clarke, Joseph P. Dalaker, Bonnie L. Damon, Michael E. Davern, Sarah C. Davis, Katharine M. Earle, Reita Glenn-Hackett, Timothy S. Grall, Ann-Margaret Jensen, Mary C. Kirk, Diana J. Lewis, Tracy A. Loveless, Sandra Luckett, Wynona L. Mims, Thomas Niemczyk, Roberta T. Payne, Hung X. Phan, Chandararith R. Phe, Kirby G. Posey, David M. Rajnes, Dwayne Ross, Howard A. Savage, Peter J. Sepielli, Paul Siegel, Nora Szeto, Jan Tin, Sherri C. Tompa, Victor M. Valdisera, Marjorie R. Ward, Myra A. Washington, Mai A. Weismantle, Ellen B. Wilson.**

The Population Division, **John F. Long,** Division Chief; **Louisa F. Miller,** Assistant Division Chief for Census Programs; **Signe Wetrogan,** Assistant Division Chief for Population Estimates and Projections; **Robert A. Kominski,** Assistant Division Chief for Social and Demographic Statistics; **Jorge del Pinal,** Assistant Division Chief for Special Population Statistics; **Peter Way,** International Programs Center Chief. Branch Chiefs, Staff Chiefs, and Special Assistants: **Michael J. Batutis, Jr., Judy Belton, Claudette Bennett, Lisa Blumerman, Robert Bush, Edwin R. Byerly, Arthur Cresce, Jr., Jennifer C. Day, Kevin Deardorff, Manuel de la Puente, Glenn S. Ferri, Campbell J. Gibson, Karen Humes, Diana Lopez-Meisel, Robert Nunziata, Martin O'Connell, E. Marie Pees, J. Gregory Robinson, Phillip A. Salopek, Arlene Saluter, William Schooling, Annetta C. Smith, Gregory Spencer, Janice A. Valdisera.** Other Contributors: **Arjun Adlakha, Patricia Anderson, Amy Arnett, Angela D. Asano, Lea Auman, Cassandra Banks, Jessica Barnes, Kurt Bauman, Bonny M. Berkner, Mary Blankenship, Celia G. Boertlein, Ellen J. Bradley, Angela Brittingham, Antonio Bruce, Rosalind Bruno, Katherine Campbell, Paul R. Campbell, Rachel Cassidy, Linda Chase, Charles L. Clark, Sheila Colbert, Margaret Cole, Joseph Costanzo, Rosemarie Cowan, Andrea Curry, James Creech, Prithwis Das Gupta, Cynthia Davis, Warren F. Davis, Kimberly A. DeBarros, Donna Defibaugh, Jason Devine, Tina Dosunmu, Bruce Durding, Jane Dye, Carol S. Faber, Alison Fields, Jason Fields, Timothy R. Fitzgerald, Todd Gardner, Yvonne Gist, Sherrell Goggin, Rosalyn M. Green, Elizabeth Grieco, Betsy Guzman, Kristin A. Hansen, Kenneth Hawkins, Mary Hawkins, Lisa Hetzel, Keller Hill, Phyllis Hogan, Amie Jamieson, Tecora Jimason, Arvella Johnson, Rodger Johnson, Nicholas Jones, Colleen Joyce, Kay T. Jung, Linda B. Kehm, Mary Elizabeth Kennedy, Mary R Kennedy, Jennifer Kipple, Lois M. Kline, Jeffrey J. Kuenzi, Emily M. Lennon, Michael Levin, Mary Louviere, Terry Lugaila, Paul Mackun, Gladys Martinez, Linda Mayberry, Jesse McKinnon, Janin Menendez, Julie Meyer, Karen M. Mills, Terri Monroe, Kathleen Morris, Debra Niner, Catherine O'Brien, Grace O'Neill, Stella Ogunwole, Thomas Ondra, Marc Perry, Sherry B. Pollock, Ann Powell, David Rain, Roberto Ramirez, Michael Ratcliffe, Cynthia Ratliff, John Reed, Edith Reeves, Clara A. Reschovsky, Donna Robertson, Anne R. Ross, Camille Ryan, Rebecca Sauer, Selma Sawaya, Jason P. Schachter, Rebeckah Schlosser, Dianne Schmidley, Hyon Shin, Robert Shlanta, Linda Showalter, Tavia Simmons, Victoria Simmons, Larry Sink, Brenda Skillern, Amy Smith, Denise I. Smith, Pamela Smith, Steven Smith, Renee E. Spraggins, Gretchen A. Stiers, Michael Stroot, Trudy Suchan, Susan M. Swan, Nancy L. Sweet, Gloria A. Swieczkowski, Leah Taguba, Anthony Tchai, Herbert Thompson, Carolyn Tillman, Marylou Unsell, Barbara Van der Vate, Paula Vines, Grace T. Waibel, William Wannall, Elizabeth Weber, Kirsten West, Nina J. Williams, David Word, Janet Wysocki.**

The Customer Liaison Office, **Stanley J. Rolark,** Division Chief. Team Leaders/Branch Chiefs: **Renee Jefferson-Copeland, Barbara A. Harris, Thelma Stiffarm.** Other Contributors: **Franklin J. Ambrose, Michael Bryan, Kassandre Cowan, Russell Davis, Jr., LaShaunne Graves, Keller Hill, Edwina Jaramillo, Janice Jones, Wayne Kei, Brenda Kelly, Barbara LaFleur, William M. Millett, Cerafin (John) Morales, Catherine Yvonne Smallwood, Debra Spinazzola, Charmae G. Taliaferro, Ernest Wilson.**

The Administrative and Customer Services Division, **Walter C. Odom,** Division Chief; **Michael G. Garland,** Assistant Division Chief for Product Development and Publications Services. Branch Chiefs: **James R. Clark, Gary J. Lauffer.** Other Contributors: **Barbara H. Blount, Cynthia G. Brooks, Meshel L. Butler, Tina T. Egan, Bernadette J. Gayle, Shirley McLaughlin, Kim D. Ottenstein, Rena S. Pinkney, Laurene V. Qualls, Amanda D. Shields, Margaret A. Smith.**

The Census 2000 Redistricting Data Office, **Marshall L. Turner, Jr.,** Division Chief; **Catherine Clark McCully,** Assistant Division Chief.

The Geography Division, **Robert W. Marx,** Division Chief; **Robert LaMacchia,** Assistant Division Chief for Geocartographic Services; **Linda Franz,** Assistant Division Chief for Geographic Operations; **David Galdi,** Assistant Division Chief for Geographic Application Systems; **Carl Hantman,** Assistant Division Chief for Geoprocessing Systems; **Joseph Knott,** Geographic Operations Advisor. Primary Contributors: **Joanne Aikman, David Aultman, Maurice Austin,**

Lawrence Bates, Constance Beard, Richard Birdsong, Ronald Blake, Gerard Boudriault, Kaile Bower, Bob Brown, Calvin Brown, John Byle, Gerald Coleman, Tracy Corder, Michael DeGennaro, Charles Dingman, Leo Dougherty, David Earles, Anita Easter, Amy Fischer, Deanna Fowler, Carol Gleason, Tammi Gorsak, Michael Hackelton, Kevin Holmes, Ruth Johnson, Stephen Jones, Mark Kueck, Sean Kinn, Quinn Lee, Carl Leggieri, Rhonda Levi, Alan Longshore, Joseph Marinucci, Joan Meiller, Carol Muscia, Kimberly Newkirk, Michael Niosi, Linda Orsini, Vincent Osier, Brian Osterloh, Nick Padfield, Linda Pike, Lourdes Ramirez, Patricia Ream, Anne Richards, Barbara Rosen, Janemary Rosenson, Ricardo Ruiz, Barbara Saville, Jeffrey Schneider, Brian Scott, Stephanie Spahlinger, Jay Spurlin, Dorothy Stroz, Brian Swanhart, David Tarr, William Thompson, Angela Thornton, Timothy Trainor, Jaime Turner, Meade Turner, Michael Van Dyke, Scott Wilcox, Donna Zorn. Other Contributors: **David Alexander, Patricia Angus, Brian Beck, Frederick Broome, John Brown, Anthony Costanzo, Raymond Craig, Paul Daisey, Robert Damario, Beverly Davis, Sonya DeSha-Hill, Dorothea Donahue, Scott Fifield, Andy Flora, Gerald Furner, Randy Fusaro, Leslie Godwin, John Liadis, Paul Manka, John McKay, Victor Meiller, Gwendolyn McLaughlin, Lornell Parks, James Pender, Al Pfeiffer, Rose Quarato, Danielle Ringstrom, Carl Sanders, George Sarkees, Joel Sobel, Daniel Sweeney, Dan Todd, Charles Whittington.**

The Telecommunications Office, **Larry J. Patin,** Division Chief; **Kenneth A. Riccini,** Assistant Division Chief. Team Leaders: **Janet T. Absher, Donald E. Badrak, II, Edward H. Cormier, Pamela D. Mosley, Clement J. Scanlan, John R. Selock, Gary K. Sweely.** Senior Staff Contributors: **Teryl A. Baker, Judith K. Brunclik, Kevin D. Butler, Steven P. Joseph, Anthony L. Lesko, Jr., Deborah L. Ludka, Patrick L. McDonald, Jae M. Pak, Lee E. Rian, Robert M. Scott, Calvin R. Spears, Ronald L. Steinberg, Christopher D. Volatile, Marcus A. Ward, Gary L. Williams.** Other Contributors: **Joan A. Babb, Michael J. Bartolomeo, Jr., Krishan K. Chhibbar, Mary E. Deas, Sharon C. Dombrowski, Brenda J. Galvin, Priscilla A. Harrell, Leo T. Hool, Minh L. Huynh, Cyrus S. Jackson, Jr., Joseph J. Powell, Phyllis A. Shipley, Cynthia A. Simmonds, Lester R. Swann, Tonette M. Swanson, Carlene C. Tayman, Vivian A. Wilson.**

The Technologies Management Office, **Barbara M. LoPresti,** Division Chief; **Howard Prouse,** Assistant Division Chief for Census Automation; **Roy F. Borgstede,** Assistant Division Chief for Systems; **Judy Dawson,** Assistant to the Assistant Division Chief for Census Automation. Team Leaders: **Steven Angel, Leah Arnold, Jerome Garrett, Chris Garza, Tim McGarvey, Bob McGrath, Tom McNeal, Mark Peitzmeier, Jane Polzer, Ellen Soper, Robert Soper, Yiwei Yu.** Other Contributors: **Edgard Antonio, Sheila Astacio, Bill Ballew, Erica Bilek, Robert Brown, Annie Calhoun, Joanne Carruba, Cedric Carter, Carol Comisarow, Frank Fisiorek, Susan Galeano, Sharon Gross, Michael Haas, Carol Hammond, Deloris Higgins, Chris Kent, Michael Marini, Patricia Montgomery, Gail Nairn, Yu-Jihng Peng, Caroline Riker, Nancy Rogers, Gary Seigel, Sandra D. Stewart, Darrin Stolba, Lynn Swindler, Luana Tran, Douglas Vibbert, John View, Karen Wyatt.**

The Statistical Research Division, **Tommy Wright,** Division Chief; **Marty Appel, Leslie Brownrigg, Beverley Causey, Bor-Chung Chen, Carol Corby, Melinda Crowley, Manuel de la Puente, Theresa DeMaio, David DesJardins, Joyce Farmer, Maria Garcia, Eleanor Gerber, Dan Gillman, Sam Hawala, Samuel Highsmith, Jr., Richard Hoffman, III, C. Easley Hoy, Elizabeth Huang, Michael Ikeda, Cary Isaki, Catherine Keeley, Jay Kim, William LaPlant, Gregory Lestina, Jr., John Linebarger, Lawrence Malakhoff, Donald Malec, Kent Marquis, Paul Massell, Thomas Mayer, Jeffrey Moore, Elizabeth Murphy, Elizabeth Nichols, Thomas Petkunas, Edward Porter, Lorraine Randall, Cleo Redline, Matt Salo, Mary Scaggs, Laurel Schwede, Philip Steel, Yves Thibaudeau, Julie Tsay, Elizabeth Vacca, Todd Williams, William Winkler, Laura Zayatz.**

The Congressional Affairs Office, **Robin J. Bachman,** Division Chief; **Joanne M. Caldwell,** Assistant Division Chief. Congressional Affairs Associates: **John H. Ambler, Clive R. Richmond.** Liaison Staff and Assistants: **Lee E. AuCoin, Stuart P. Durst, Sharon K. Murtha, Joanne M. Ramsey, Leatha Lamison-White.** Other Contributors: **Martha E. Gigger, Tracey N. Harrison, Colleen Smith, Tammy Sutton, Regina M. Toye, Barbara J. Ziccardi.**

The Marketing Services Office, **John C. Kavaliunas,** Division Chief. Branch and Staff Chiefs: **Barbara Aldrich, Joanne Dickinson, Colleen Flannery, George Selby, Leslie D. Solomon, Joyce Ware.** Other Contributors: **William Crews, Barbara Garner, Mary Jane McCoy, Robert Schneider, Jr., David L. Wycinsky, Jr.**

The Public Information Office, **Maury Cagle,** Chief. Other Contributors: **Sharon Anderson, Angela Baker, Chris Baumgartner, Mike Bergman, Robert Bernstein, George Boyd, Patti Buscher, Catherine Childress, Renee Clagett, Noel Clay, Danielle Conceicao, Debra Corbett, Pauline Cornellier, Cat Crusan, Robin Davis, Darlene Dickens, Mary Dolezuchowicz, Pat Dunton, Karen Epp, Joe Forte, Mike Freeman, Fred Gatlin, Gerri Griffith, Kara Haley, Barbara Hatchl, David Hoffman, Bonnie Hopper, Danny Johnson, Dwight Johnson, Schere Johnson-Jordan, Ellie Juergens, Lucille Larkin, Debbie Law, Mark Mangold, Eileen Marra, Suzanne Moret, Mike Morgan, Linda Nancarrow, Bryan Niemiec, Ruth Osborne, James Pasierb, Mary Pelzer, Rick Reed, Victor Romero, Bey-Ling Sha, Barbara Soule, Mary G. Thomas, Beverly Thompson, Donna Tillery, Neil Tillman, Mark Tolbert, III, Gene Vandrovec, Jeanne Waples, Tom Webster, Everett Whiteley, Janet Wooding, J. Paul Wyatt, Kevin Younes.**

The Policy Office, **Gerald W. Gates,** Chief. Branch and Staff Chiefs: **Wendy L. Alvey, Thomas A. Jones, William F. Micarelli, Marilyn H. Moore, Jacqueline R. Yates.** Other Staff: **David G. Hendricks, Patricia L. Melvin, David M. Pemberton, Sandra L. Shahady, Fred J. Shenk.**

The Census 2000 Publicity Office, **Steven J. Jost,** Associate Director for Communications; **Jennifer P. Marks,** Division Chief; Special Assistants to the Division Chief, **Kerry Sutten** and **Judith Waldrop. Branch Chiefs and Staff: Angelia Banks, Patti Becker, Charlene Bickings, Cherrie Burgess, Shirley Clevinger, Dave Coontz, Paula Coupe, Kimberly A. Crews, Nedra Darling, Jenmaire Dewberry, Thomas W. Edwards, Michele Freda, Michelle Hammond, Angela M. Johnson, Sharon Massie, Dorothy G. Moorefield, Lillian Moy, Diane Norton, Kendall Oliphant, Elaine V. Quesinberry, Beverly A. Roberts, Monica Smith, Dorothy Winslow.**

The Planning, Research, and Evaluation Division, **Ruth Ann Killion,** Division Chief; **Deborah Bolton,** Assistant Division Chief for Coordination; **David Hubble,** Assistant Division Chief for Evaluations; **Charlene Leggieri,** Assistant Division Chief for Administrative Records Research; **Sally Obenski,** Assistant Division Chief for 2010 Planning. Staff Group Leaders and Staff: **Joan Marie Hill, Dean Judson, Vickie Kee, Juanita Lott, Randall Neugebauer, Rita Petroni, Arona Pistiner, Cotty Smith, Emilda Rivers, George Train, Frank Vitrano, Henry Woltman, Stephen Ash, Jana Asher, Elizabeth Banks, Mikahil Batkhan, Mark Bauder, Susanne Bean, Katie Bench, Keith Bennett, Michael Berning, Harold Bobbitt, Linda Brudvig, Joseph Burcham, Tammy Butler, Rita Cacas, Cynthia Chang, Joseph Conklin, Raph Cook, Ann Daniele, Mary Davis, Benita Dawson, Margaret Duffy, Matt Falkenstein, Eleni Franklin, Jennifer Guarino, David Hilnbrand, Christine Hough, Lionel Howard, Norman Kaplan, Anne Kearney, Donald Keathley, Francina Kerr, Jeong Kim, Elizabeth Krejsa, Dawn LeBeau, John Lukasiewicz, Jason Machowski, Daniella Mungo, Sherri Norris, Nancy Osbourn, Karen Owens, James Poyer, Joyce Price, David Raglin, Audrey Rebello, Dean Resnick, Pamela Ricks, Paul Riley, Cynthia Rothhaas, Megan Ruhnke, Jane Sandusky, Douglas Scheffler, Tammie Shanks, Kevin A. Shaw, Kevin M. Shaw, Diane Simmons, George Sledge, Carnelle Sligh, Courtney Stapleton, David Stemper, Mary Anne Sykes, Mary Untch, Deborah Wagner, Lisa Wallace, Phyllis Walton, Irene Zimmermann.** Other Contributors: **Jennifer Ambler, Nancy Bates, Genia Battle, Sara Buckley, Esther Butler, Gary Chappell, Kimberly Collora, Jill Duncan, Mark Gorsak, Matthew Hacker, Rachel Hall, Theresa Hall Marvin, Sam Hawala, Catherine Hooper, Juanita Jackson, Michael Larsen, Fred Lestina, Jason Martin, Jay Keller, Yolanda McMillan, Sara Munger, Natasha Pace; Dave Phelps, Ronald Prevost, Clive Richmond, David Rockoff, Zakiya Sackor, Herbert Thompson, Erin Vacca, Andrew Zbikowski.**

The Systems Support Division, **Robert G. Munsey;** Contributors: **Paul Friday, Cary Bean.**

The Field Division, **Marvin D. Raines,** Associate Director for Field Division; **Carol Van Horn,** Assistant to the Associate Director for Field Operations; **Michael Weiler,** Special Assistant to the Associate Director for Field Operations; **L. Diane Bennett,** Special Assistant to the Associate

Director for Field Operations; **Brian Monaghan,** Lead Assistant Division Chief, Censuses; **Janet Cummings,** Assistant Division Chief, Budget, Management, and Oversight; **Gail Leithauser,** Assistant Division Chief, Geography and Data Collection; **Richard Blass,** Assistant Division Chief for Evaluation and Research; **Mark Taylor,** Assistant Division Chief for Payroll Processing. Special Assistant for Space and Logistics: **Hugh Brennan, Jim Steed.** Branch Chiefs, Staff Chiefs, and Team Leaders: **Michael Thieme, Harold Hayes, Brenda August, Miriam Balutis, Jennifer Jones, Nola Krasko, Jan Jaworski, Karen Seebold, Pamela White, Dwight Osbourn, Bill Phalen, Isabelle McCants, Nancy Jones, Fred Borsa, Tim Devine, Gerald Brooke, Mike Stump, Clif Taylor, Cheryl Querry, Maisha Strozier, Geraldine Burt, Sandra Lucas, Dennis Van Langen, Karen Field, David McCormack, John Donnelly, Kathy Wimbish, Sharon Schoch, Jeanne Benetti, Peter Sefton, Alicia Morris, Sydnee Chattin-Reynolds, Diana Harley, Bettye Moohn, Kim Higginbotham, Lorraine Barnett, Charles Moore, Grailand Hall.** Additional Contributors: **Mary Beth Williams, Keisha Wilson, Louise Sciukas, Alemayehu Bishaw, Monsita Hemsley, Maxine Judkins, Anita Lembo, Laura Sewell, Kathy Maney, Diana Martin, Georgina Manley, William Bivens, Carol Foley, Patricia Pace, Vicky Glasier, Veronica Pollard, Todd Gore, Stacie Lowe, Dorothy Wilson, Nancy Radcliffe, Shannon Hill, Troy Scott, Brenda Holmes, Orphas Sommerville, Thomas Ickes, Marcia White, Monica Parrott Jones, Virginia Zamaitis, Lillian Witters, Tina Cunningham, JoAnne Dewey, Chuck Hovland, Andrea Sugarman, Marcia Thessin, Jennifer Weitzel, Edwin Shaw, Neala Stevens, Edith Harvey, Charles Tull, Rene Toole, Richard Rodgers, Lori Vehrs, Debbie Blizard, Kathleen Garcia, Lydia Hartley, Theresa Huseman, Dayna Jacobs, Jennifer Tate, Tammie Nelson, Samuel Santos, Tracy Block, Agnes Brown, Sandra Hatcher, Janice Watson, Catherine Valchera, Ken Graves, Connie Murray, Don Halcombe, Marilynn Kempf, June Lee, Anita Bryner, Edward Hightower, Marietta Johnson, Nicole Perrine, Russ Roberts, Bruce Williams, Michelle White, Lorraine Helms, Wanda Smith, Matthew Stewart, William Pope, Charlene McNeil, Sheri Smalls, Kathy Belfield, Lakrisha Morton, Geraldine Mekennon, Alvin Osborne, Linda Williams, Billi Jo Wickstrand, Jim Carrier, Phyllis Godette, Eric Florimon-Reed, Kimberly Ross, Mary Meadows, Gwen Thomas, Connie Williams, Lu Wood, Rosamond Harris, Craig Cassidy, Raymond Burgess, Arlet Aanestad, Joyce Boston, Yorlunza Brown, Elizabeth Squires, Gina Winchester, Eve Franklin, Tiffany Miller, Cheryl Banks, Maureen Brady, Kimberly Hollingsworth, Robert Tomassoni, Jean Williams, Michelle Williams, Evette Gomez, Warren Drummond, Paul Riley, Charles Roe, Laura Waggoner, Ron Whitehead, Jim Cawlo, Ian Millett, Alfonso Zapata, Cicely Stinson, Marcy Bailey, Carolyn Johnson, Elaine Neal, Elda Robinson, Deborah Russell, Milicent Stewart, Kathy Gaidis, Delores Jeter, Marilyn Quiles Amaya, Ruby Lewis, Gary Styles, Lillian Wilson, Sabrina Yates, Latoya Williams, Annetta Akins, Roger Clark, Brian Deevy, Charnessa Hanshaw, Dennis Hickey, Caleb Kriesberg, Tom Loo, Luis Padilla, Julia Williams.**

The Atlanta Regional Census Center, **James F. Holmes,** Regional Director; **Harold K. Wood,** Deputy Regional Director. Assistant Regional Census Managers: **Reginald Bigham, Manuel Landivar, Sneha Desai. Hilda S. Dimmock,** Assistant Regional Census Manager for Accuracy and Coverage Evaluation (A.C.E.); **Mary Struebing,** Area Manager (A.C.E.). Area Managers: **Allen Cranford, Allen Wells, Patrick Graeser, Stephanye Staggers-Profit, Dorothy Clayton, Margaret Kelly, Jazmin Mariani, Sherri Dickerson.** Regional Recruiters: **Bridgitte Wyche-McGee, Teri Henderson. Rose Polk,** Administrative Supervisor; **Ann Foster Marriner,** Supervisory Geographer; **Thomas S. Wilkie,** Supervisory Computer Specialist. Geographers: **Franklin Wallace, Ralph Rose, Nancy Bechler.** Partnership Coordinators: **Mary Love Sanford, Danielle Jones.**

The Boston Regional Census Center, **Arthur G. Dukakis,** Regional Director; **Kathleen Ludgate,** Deputy Regional Director. Assistant Regional Census Managers: **Cornelius S. Driscoll, David F. Hopkins, Bruce Kaminski.** Area Managers: **Marc Brochu, Bart Eaton, Hector Feliciano, Kate Folwell, Jack Hickey, Bryn K. Johnson, Jesse T. Potter. Susan Connors,** Administrative Supervisor; **James Cormier,** Automation Supervisor. Partnership Coordinators: **Tia Costello, Alfred Smith.** Partnership Team Leaders: **Kathleen Bradley, Apryl Edlund-Stith, Sixto Escobar, Cynthia Jennings, Giselle Laffitte, Mayra Ramos, Adib Sabree, Peter Walsh,**

Wanda Wood. Census Recruiters: **Diane Gallagher, John Sumner. Mike Horgan,** Geographic Program Supervisor. A.C.E. Assistant Managers: **Zoi Kalaitzidis, Juan R. Navarro.**

The Charlotte Regional Census Center, **Jess A. Avina,** Assistant Regional Census Manager for Field Operations, Recruiting and Geography. Area Managers for Field Operations: **R. Richard Buchholz, Teresa A. Clifton, Francis S. Collins, Linda S. Pike, Craig S. Pickett, Jeanie W. Presto, D. E. "Doug" Robertson, Vivian D. Roscoe.** Regional Recruiters: **Cynthia W. Beamon, John R. Davis, Robert C. Gabbard. Catherine J. Friedenreich,** Geography Coordinator. Geographers: **Lori L. Boston, Joanna C. Pitsikoulis, David H. Wiggins. E. Wilson Burdorff, Jr.,** Assistant Regional Census Manager for Administration, Automation, and Leasing. **Doreen D. Herod,** Administrative Supervisor; **Jerry W. Helms,** Automation Supervisor; **Lucindia E. ScurryJohnson,** Deputy Regional Director/Partnership. Partnership Coordinators: **E. Victoria Burke, William N. Ward, Jr.** Partnership Team Leaders: **Shirletta Vinson Best, Ronald E. Brown, Doris G. Greene, David J. McMahon, Amy C. Reece, Keith A. Sutton. Dorothy M. Ballard,** Assistant Regional Census Manager for A.C.E. **Rosa H. Little,** Assistant ARCM for A.C.E. Team Supervisors for A.C.E.: **Johnny D. Ledbetter, Deborah A. Martin, Stephanie G. Rogers, Kevin E. Winn. Tammy J. Zimmerman,** Supervisory Computer Specialist for A.C.E.

The Chicago Regional Census Center, **Stanley D. Moore,** Regional Director; **Marilyn Sanders,** Deputy Regional Director. Assistant Regional Census Managers: **Scott Deuel, Marcia Harmon, Gail Krmenec, Tracy Fitch.** Partnership Coordinators: **Marilyn Stephens, Joyce Marks. Richard Townsend,** Recruiting Coordinator; **Andrea Johnson,** Geographic Coordinator. Area Managers: **Monique Buckner, Audrey Iverson, Josiah Johnson, Marcia Maisenbacher, John Shankel, Natosha Thompson, Keith Vasseur, Jamie Whiteman. Laurie Walker,** Assistant A.C.E. Manager. Other Contributors: **Sandra Appler, Christina Flores, Judy Graham, Henry Gray, Dennis Green, Charles Howleit, Kalim Khan, John Koester, Dieter Krause, Toni Pitchford, John Rice, Kathy Yendrek, Steve Adrian, Cathy Armour, Terrill Barnes, Nakia Bartley, Gary Boyer, Barbara Brodsky, Sandra Coyle, Larry Cox, Sandra Dennis, James Gawronski, Marla Gibson, Gwendolyn Gray, Patricia Herschfeldt, Audrey Iverson, Toby Lee, Cindy Mailloux, Barbara Pittman, Ann Quattrocchi, Kevin Riggs, Coravonne Salm, James Schanzle, Mark Schmitz, Ileana Serrano, Anthony Shabazz, Susan Sprecher, Jerome Stevenson, Montree Svastisalee, Stacey Terry, Daphne Ward, Vernon Ward, Georgia Adams, Sherri Blumingburg, Cheryl Brown, Sherina Collins, Deborah Cullins Threets, Zretta Lewis, Mary Melone, Connie McKinley, Paula Miller, Ron Skelton, Vernon Spears, Mary Ellen Zbierski, Ricardo Capitulo, Ken Carter, Donna Conroy, Wanda Gilbert, Michael Greer, Jack Mahoney, Cora Rush, Alex Wolter, Lyndon Yin, Taron Dabney, Kathleen Derel, Paul Dziemiela, Matthew Fitzgibbon, Cynthia Garlington, Linda Gray, Patrick Hill, Kevin Husch, Carl Kozlowicz, Eileen Manning, Michael Mecaskey, Russell Pietrowiak, Joel Schoerner, Rapsody Mitra, Daniel Aguirre, Janice Bell, David Bennett, Kelli Lester Brown, Adam Gibson, Angela Edwards, Saul Garcia, Jill Giedt, Dana Gillon, Rafael Gonzalez, Salah Goss, Robert Gulick, Michael Holly, Kendall James, George Juretic, Ardell Ladd, Kimberly Long, Leona Maglaya, Earl McDowell, Joe McGlaughlin, Beverly Moore, Kenneth Moses, Anna Mustafa, JoAnn Russell, Harry Sampler, Kimberly Sanders, Detrice Shelton, Charles Slater, Christopher Smith, Stanley Smith, Gerardo Torres, Julio Villegas, Shirley Warren, Marlene Weisrock, Charles Wright, Susan Feldman, Helen Giles, Duane Marski, Karl Mirkes.**

The Dallas Regional Census Center, **Alfonso E. Mirabal,** Director; **Henry Tow,** Deputy Director. Assistant Regional Census Managers: **Michael Garner, Bonnie Young.** A.C.E. Staff: **Gail E. Streun, Eloy G. Hernandez, Cheryl L. Earnshaw. Alicia Laughlin,** Administrative Supervisor. Recruiting: **John Ortiz, Donna Stovall. Richard De La Garza,** Automation; **Betty Adamek,** Geographer. Partnership Coordinators: **Cherri Green, Marisela Lopez.** Partnership Team Leaders: **Cera Clark, Sam Gonzales, Gwen Goodwin, Kirk Hemphill, Luz Villegas.**

The Denver Regional Census Center, **Susan A. Lavin,** Regional Director; **George M. Cole,** Deputy Regional Director. Assistant Regional Census Managers: **James T. Christy, William W. Hatcher, Jr.** Area Managers: **William E. Bellamy, Leo E. Cardenas, Mark R. Hendrick,**

Laura G. Lunsford, Samuel R. Martinez, Lori Putman. Partnership Coordinator; **Pamela M. Lucero.** Partnership Specialist - Team Leaders: **Earl T. Brotten, Jr., Harold A. Knott, Belva Morrison. Douglas R. Wayland,** Media Partnership Specialist Team Leader. **Paul S. McAllister,** Assistant Regional Census Manager for A.C.E. Assistant Managers for A.C.E.: **Bradley E. Allen, Barry L. Stevelman. William F. Adams,** Census Recruiter; **Russell W. Frum,** Administrative Supervisor; **Mark K. Hellfritz,** Geographic Coordinator; **David C. Skeehan,** Automation Supervisor.

The Detroit Regional Census Center, **Dwight Dean,** Regional Director; **Jon Spendlove,** Deputy Regional Director. Assistant Regional Census Managers: **Thomas Chodzko, Elaine Wagner, Janice Pentercs. Christine Blair,** Administrative Supervisor; **William Brewer, Jr.,** Automation Supervisor. Area Managers: **Joette Mumford, David Lackey, Katherine Workman, Sari Raykovitz, Mario Matthews, Susan Hack. Joseph Kogelmann,** Geographic Coordinator. Geographers: **Gary Gruccio, G. Gordon Rector, Julie White.** Recruiters: **M. Randolph Edwards, Betty Hughes.** Partnership Coordinators: **Norma Rivas Ricci, Vincent Kountz.** Partnership Team Leaders: **Cynthia King, Katherine Shiflet. Robert Haisha, Kim Hunter, Richard Lundy, Kathryn Reisen. Barbara Clayton,** Information Specialist; **Katrina Carter,** Assistant Regional Census Manager for A.C.E.; **David Sinnott,** Assistant A.C.E. Manager; **Thomas Melaney,** Automation Supervisor for A.C.E.; **Kim Estmond,** Administrative Supervisor for A.C.E. Team Supervisors: **David Baize, Lolita Waters, Jennifer Hillman, Eleanor Bowie, Kristina Dalton, Brendan Best, David Glaza, Stephanie Miller.**

The Kansas City Regional Census Center, **Henry L. Palacios,** Regional Director. Assistant Regional Census Managers: **Dennis R. Johnson, Cathy L. Lacy.** Area Managers: **Mary E. Briscoe, Sharon Bunge, Kevin W. Gibson, Patricia M. Sasenick, Jessie M. Williams. Paula Givens-Bolder,** Recruiter. Partnership Coordinators: **Marietta Selmon-Gumbel, Tom Beaver. Robert A. Reed,** Automation Supervisor; **Craig D. Best,** Geographic Coordinator. Geographers: **Wes Flack, Peter Osei-Kwame. Dennis F. Deeney,** Administrative Supervisor; **Randall E. Cartwright,** Assistant Regional Census Manager A.C.E.; **Richard W. Taegel,** A.C.E. Area Manager.

The Los Angeles Regional Census Center, **John E. Reeder, Jr,** Regional Director; **Kendrick J. Ellwanger,** Deputy Regional Director. Assistant Regional Census Managers: **Stephen J. Alnwick, Jerry B. Wong, C. Kemble Worley, Hoa Julie Lam Ly. Jim Bussell,** A.C.E. Automation Staff. A.C.E. Management Staff: **Brenda Harvell, Elaine Marruffo, Faarax Sheikh-Noor, Wes White. Geoff Rolat,** RCC Administrative Staff. Regional Office Administrative Staff: **Isabel Cesena, Koupei (Gwen) White.** RCC Area Managers: **Linda Kane Akers, William H. Johnson, Leonard E. Lee, Annette M. Luna, Eleanor J. Miller, Jesse Rodriguez, Linda Kay Schagrin, Diana J. Turley.** RCC Automation Staff: **Yvonne Lam, Ben Rios. Timothy W. McMonagle,** RCC Geographic Coordinator: RCC Geographers: **Jeffrey P. Freeland, John D. Kennedy, John Joseph Moore.** RCC Recruiters: **Anthony R. Moccia, Jeanne Y. Kondo.** Partnership Coordinators: **Reina Ornelas, Monica Sandoval. Anthony Greno,** Media Team Leader. Partnership Team Leaders: **Luz Castillo, Susan Ng, Maria Padron, John Flores, Belinda Garcia, Ardiss Lilly, Tommy Randle.**

The Philadelphia Regional Census Center, **Fernando E. Armstrong,** Regional Director; **George Grandy, Jr.,** Deputy Regional Director. Assistant Regional Census Managers: **Nunzio V. Cerniglia, Philip M. Lutz. John M. Stuart,** A.C.E. Assistant Regional Census Manager; **John M. Mendenhall,** A.C.E. Assistant Manager; **Belinda Castro Gonzalez,** A.C.E. Supervisory Computer Specialist; **Geraldine Robinson-Ervin,** Administrative Supervisor. Area Managers: **Keith R. Bryant, Betty Ann Fretchel, Tedford J. Griffith, George T. Long, Theodore J. Roman, Linda J. Shell, Carolyn D. Williams. Eric N. Barson,** Automation Coordinator; **Vicki L. Lewis,** Geographic Coordinator. Partnership Coordinators: **Juanita C. Britton, K. Lyn Kirshenbaum.** Recruiters: **Barbara M. Nichols, Maritza Padilla-Laureda.**

The New York Regional Census Center, **Lester A. Farthing,** Regional Director; **John W. Dale, II,** Regional Census Manager; **Deborah M. Randall,** Census Manager. Assistant Regional Census Managers: **Ligia Jaquez, Richard Liquorie, Richard Turnage. Marion Britton,** Deputy Regional Director; **Glenda Morgan,** Assistant Regional Census Manager for A.C.E; **Jon Davis,** Assistant A.C.E. Manager. Area Managers: **Jon Beaulieu, Allison Cenac, Erik Cortes,**

Monette Evans, Somonica Green, Bill Harfmann, George Paladino, Heirberto Rios, Pat Valle. Deirdre Bishop, Supervisory Geographer. Partnership Coordinators: **Alice Chin, Martha Butler. Waleska Martinez,** Supervisory Computer Specialist. Census Recruiters: **Kathy Nicolaou, Raquel Strauss. Inocencio Castro,** Administrative Supervisor.

The Seattle Regional Census Center, **Moises M. Carrasco,** Regional Director; **Michael P. Burns,** Deputy Regional Director; **Timothy P. Olson,** Assistant Regional Census Manager; **Jolynn Lambert,** Assistant Regional Census Manager (A.C.E.). Area Managers: **Faye Amos, Linda Clark, Alice Greene, Pamela Harlan, Wendy Hawley, Sonya Jorgensen, Tom Szabla. Lynn Sorgenfrei,** Assistant Manager for A.C.E; **Thomas Callahan,** Automation Coordinator; **Cathy Baker,** (A.C.E.) Supervisory Computer Specialist; **Lesca McKee,** Computer Specialist; **Dennis Duffy,** Supervisory Geographer. Geographers: **Richard Campbell, Elena Baranov. Gordon Wood,** Supervisory Geographic Specialist; **Andrew Haney,** Geographic Specialist; **Lynn O'Brien,** Supervisory Geographic Specialist. Administration Supervisors: **Mary Plumley, Rick Hunt. Theodore Heckathorn,** Administrative Specialist (Space); **Robert Clingman,** Partnership Coordinator. Partnership Team Leaders: **Lia Bolden, Elaine Dempsey, Nancy Holder, Nikolay Kvasnyuk, Dan Rosas, Tony Vaska.** Census Recruiters: **Jan McStay, Maria Hosack.**

The National Processing Center Staff, **Judith N. Petty,** Division Chief; **Stanley M. Domzalski,** Assistant Division Chief (Services); **Mark T. Grice,** Assistant Division Chief (Processing); **Jane L. Woods,** Assistant Division Chief (Teleprocessing); **David E. Hackbarth,** Assistant Division Chief (Technology and Information); **Mark J. Matsko,** Assistant Division Chief (Data Capture Center). Branch and Section Chiefs: **Denise D. Anderson, Matthew P. Aulbach, Jean A. Banet, Linda S. Banet, Debra S. Barksdale, Janice I. Benjamin, James L. Berger, Michael L. Blair, Carlene Bottorff, Gary L. Bower, Teresa A. Branstetter, William E. Brewer, Jr., Linda Broadus, Pamela D. Brown, Regina A. Cain, Jo I. Childress, Lester Lee Clement, Kathy L. Conn, Margaret R. Coy, Ida G. Damrel, Maria T. Darr, Carol A. Dawson, Glen M. Everhart, Darrell L. Farabee, Angela Feldman-Harkins, Neil C. Ferraiuolo, Grant G. Goodwin, Judith A. Gregory, Susan C. Hall, Janet L. Harmon, Linda R. Hayden, John Hoffmann, Leoda F. Houston, Pamela D. Hunter, Howard J. Knott, William A. Korb, Joni S. Krohn, Ruby M. Lawson, Patricia A. Linton, Eileen S. Little, Thomas M. Marks, Gayle Y. Mathis, Bernadette J. Mattingly, Donna J. Meredith, Gaye Ellen Miller, Marilyn K. Mink, Joye A. Mullins, Martha T. Myers, William B. Neely, Don E. Overton, S. Elaine Rogers, Theodore A. Sands, Kenneth F. Seis, Suzanne B. Shepherd, Ellen Slucher, Connie Smith, Marsha Sowders, Jill C. Spencer, Aretta Stallard, Arthur B. Stewart, Debra M. Stringer, Carol A. Stubblefield, Judith G. Van Gilder, Muriel Wharton, Russell O. White, Daniel L. Whitehouse, Ronald L. Willis, Betty J. Wright, Rosita Young.**