which it is located) amounted to at least \$1,000 in 1989. A one-family unit occupied by a tenant household that does not pay cash rent is enumerated as a farm residence if the remainder of the farm (including its yard) qualifies as a farm.

Farm residence is provided as an independent data item only for housing units located in rural areas. It may be derived for housing units in urban areas from the data items on acreage and sales of agricultural products on the public-use microdata sample (PUMS) files. (For more information on PUMS, see Appendix F, Data Products and User Assistance.)

The farm population consists of persons in households living in farm residences. Some persons who are counted on a property classified as a farm (including in some cases farm workers) are excluded from the farm population. Such persons include those who reside in multi-unit buildings or group quarters.

**Comparability**—These are the same criteria that were used to define a farm residence in 1980. In 1960 and 1970, a farm was defined as a place of 10 or more acres with at least \$50 worth of agricultural sales or a place of less than 10 acres with at least \$250 worth of agricultural sales. Earlier censuses used other definitions. 1989 divided by 12). The ratio was computed separately for each unit and was rounded to the nearest whole percentage. Units for which no cash rent is paid and units occupied by households that reported no income or a net loss in 1989 comprise the category "Not computed." This item is calculated on a sample basis.

#### HOUSE HEATING FUEL

The data on house heating fuel were obtained from questionnaire item H14, which was asked at occupied housing units. This item was asked on a sample basis. The data show the type of fuel used most to heat the house or apartment.

**Utility Gas**—Includes gas piped through underground pipes from a central system to serve the neighborhood.

**Bottled, Tank, or LP Gas**—Includes liquid propane gas stored in bottles or tanks which are refilled or exchanged when empty.

**Fuel Oil, Kerosene, Etc.**—Includes fuel oil, kerosene, gasoline, alcohol, and other combustible liquids.

of the Census, 1989).

Gross rent is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else). Gross rent is intended to eliminate differentials which result from varying practices with respect to the inclusion of utilities and fuels as part of the rental payment. The estimated costs of utilities and fuels are reported on a yearly basis but are converted to monthly figures for the tabulations. Renter units occupied without payment of cash rent are shown separately as "No cash rent" in the tabulations. Gross rent is calculated on a sample basis.

**Comparability**—Data on gross rent have been collected since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

#### GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

Gross rent as a percentage of household income in 1989 is a computed ratio of monthly gross rent to monthly household income (total household income in Solar Energy -- Includes heat provided by sunlight which

the rooms.

T

**Other Fuel**—Includes all other fuels not specified elsewhere.

**No Fuel Used**—Includes units that do not use any fuel or that do not have heating equipment.

**Comparability**—Data on house heating fuel have been collected since 1940. The category, "Solar energy" is new for 1990.

#### **INSURANCE FOR FIRE, HAZARD, AND FLOOD**

The data on fire, hazard, and flood insurance were obtained from questionnaire item H22, which was asked at a sample of owner-occupied one-family houses, condominiums, and mobile homes. The statistics for this item refer to the annual premium for fire, hazard, and flood insurance on the property (land and buildings); that is, policies that protect the property and its contents against loss due to damage by fire, lightning, winds, hail, flood, explosion, and so on.

Liability policies are included only if they are paid with the fire, hazard, and flood insurance premiums and the amounts for fire, hazard, and flood cannot be separated. Premiums are included even if paid by someone outside



the household or remain unpaid. When premiums are paid on other than a yearly basis, the premiums are converted to a yearly basis.



The payment for fire, hazard, and flood insurance is added to payments for real estate taxes, utilities, fuels, and mortgages (both first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

A separate question (H23d) determines whether insurance premiums are included in the mortgage payment to the lender(s). This makes it possible to avoid counting these premiums twice in the computations.

**Comparability**—Data on payment for fire and hazard insurance were collected for the first time in 1980. Flood insurance was not specifically mentioned in the wording of the question in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and onefamily houses with a business or medical office on the property.



#### **KITCHEN FACILITIES**

Data on kitchen facilities were obtained from questionnaire item H11, which was asked at both occupied and vacant housing units. A unit has complete kitchen facilities when it has all of the following: (1) an installed sink with piped water, (2) a range, cook top and convection or microwave oven, or cookstove, and (3) a refrigerator. All kitchen facilities must be located in the structure. They need not be in the same room. Portable cooking equipment is not considered a range or cookstove. An ice box is not considered to be a refrigerator.

**Comparability**—Data on complete kitchen facilities were collected for the first time in 1970. Earlier censuses collected data on individual components, such as kitchen sink and type of refrigeration equipment. In 1970 and 1980, data for kitchen facilities were shown only for year-round units. In 1990, data are shown for all housing units.

#### **MEALS INCLUDED IN RENT**

The data on meals included in the rent were obtained from questionnaire item H7b, which was asked of all occupied housing units that were rented for cash and all vacant housing units that were for rent at the time of enumeration.

DEFINITIONS OF SUBJECT CHARACTERISTICS

The statistics on meals included in rent are presented for specified renter-occupied and specified vacant-forrent units. Specified renter-occupied and specified vacantfor-rent units exclude one-family houses on 10 or more acres. (For more information, see the discussion under "Contract Rent.")

**Comparability**—This is a new item in 1990. It is intended to measure "congregate" housing, which generally is considered to be housing units where the rent includes meals and other services, such as transportation to shopping and recreation.

#### MOBILE HOME COSTS

The data on mobile home costs were obtained from questionnaire item H26, which was asked at owneroccupied mobile homes. This item was asked on a sample basis.

These data include the total yearly costs for personal property taxes, land or site rent, registration fees, and license fees on all owner-occupied mobile homes. The instructions are to not include real estate taxes already reported in question H21.

Costs are estimated as closely as possible when exact costs are not known. Amounts are the total for an entire 12-month billing period, even if they are paid by someone outside the household or remain unpaid.

The data from this item are added to payments for mortgages, real estate taxes, fire, hazard, and flood insurance payments, utilities, and fuels to derive selected monthly owner costs for mobile homes owners.

Comparability-This item is new for 1990.

#### MORTGAGE PAYMENT

The data on mortgage payment were obtained from questionnaire item H23b, which was asked at owner occupied one-family houses, condominiums, and mobile homes. This item was asked on a sample basis. Question H23b provides the regular monthly amount required to be paid the lender for the first mortgage (deed of trust, contract to purchase, or similar debt) on the property. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

The amounts reported include everything paid to the lender including principal and interest payments, real estate taxes, fire, hazard, and flood insurance payments, and mortgage insurance premiums. Separate questions determine whether real estate taxes and fire, hazard, and flood insurance payments are included in the mortgage payment to the lender. This makes it possible to avoid counting these components twice in the computation of "Selected Monthly Owner Costs."

**Comparability**—Information on mortgage payment was collected for the first time in 1980. It was collected only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, one-family houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions on monthly mortgage payments were asked of all owner-occupied one-family houses, including one-family houses on 10 or more acres. They were also asked at mobile homes, condominiums, and one-family houses with a business or medical office.

The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from a single question. Two questions were used in 1990; one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages or home equity loans. (For more information, see the discussion under "Second or Junior Mortgage Payment.")

## **MORTGAGE STATUS**

The data on mortgage status were obtained from questionnaire items H23a and H24a, which were asked at owner-occupied one-family houses, condominiums, and mobile homes. "Mortgage" refers to all forms of debt where the property is pledged as security for repayment of the debt. It includes such debt instruments as deeds of trust, trust deeds, contracts to purchase, land contracts, junior mortgages and home equity loans.

A mortgage is considered a first mortgage if it has prior claim over any other mortgage or if it is the only mortgage on the property. All other mortgages, (second, third, etc.) are considered junior mortgages. A home equity loan is generally a junior mortgage. If no first mortgage is reported, but a junior mortgage or home equity loan is reported, then the loan is considered a first mortgage.

In most census data products, the tabulations for "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" usually are shown separately for units "with a mortgage" and for units "not mortgaged." The category "not mortgaged" is comprised of housing units owned free and clear of debt.

**Comparability**—A question on mortgage status was included in the 1940 and 1950 censuses, but not in the 1960 and 1970 censuses. The item was reinstated in 1980 along with a separate question dealing with the existence of second or junior mortgages. In 1980, the mortgage status questions were asked at owner-occupied

one-family houses on less than 10 acres. Excluded were mobile homes, condominiums, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions were asked of all one-family owner-occupied housing units, including houses on 10 or more acres. They were also asked at mobile homes, condominiums, and houses with a business or medical office.

#### PERSONS IN UNIT

This item is based on the 100-percent count of persons in occupied housing units. All persons occupying the housing unit are counted, including the householder, occupants related to the householder, and lodgers, roomers, boarders, and so forth.

The data on "persons in unit" show the number of housing units occupied by the specified number of persons. The phrase "persons in unit" is used for housing tabulations, "persons in households" for population items. Figures for "persons in unit" match those for "persons in household" for 100-percent data products. In sample products, they may differ because of the weighting process.

**Median Persons in Unit**—In computing median persons in unit, a whole number is used as the midpoint of an interval; thus, a unit with 4 persons is treated as an interval ranging from 3.5 to 4.5 persons. Median persons is rounded to the nearest hundredth. (For more information on medians, see the discussion under "Derived Measures.")

**Persons in Occupied Housing Units**—This is the total population minus those persons living in group quarters. "Persons per occupied housing unit" is computed by dividing the population living in housing units by the number of occupied housing units.

#### PERSONS PER ROOM

"Persons per room" is obtained by dividing the number of persons in each occupied housing unit by the number of rooms in the unit. Persons per room is rounded to the nearest hundredth. The figures shown refer, therefore, to the number of occupied housing units having the specified ratio of persons per room.

**Mean Persons Per Room**—This is computed by dividing persons in housing units by the aggregate number of rooms. This is intended to provide a measure of utilization. A higher mean may indicate a greater degree of utilization or crowding; a low mean may indicate underutilization. (For more information on means, see the discussion under "Derived Measures.")

DEFINITIONS OF SUBJECT CHARACTERISTICS



## **PLUMBING FACILITIES**

The data on plumbing facilities were obtained from questionnaire item H10, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Complete plumbing facilities include hot and cold piped water, a flush toilet, and a bathtub or shower. All three facilities must be located inside the house, apartment, or mobile home, but not necessarily in the same room. Housing units are classified as lacking complete plumbing facilities when any of the three facilities are not present.

Comparability-The 1990 data on complete plumbing facilities are not strictly comparable with the 1980 data. In 1980, complete plumbing facilities were defined as hot and cold piped water, a bathtub or shower, and a flush toilet in the housing unit for the exclusive use of the residents of that unit. In 1990, the Census Bureau dropped the requirement of exclusive use from the definition of complete plumbing facilities. Of the 2.3 million year-round housing units classified in 1980 as lacking complete plumbing for exclusive use, approximately 25 percent of these units had complete plumbing but the facilities were also used by members of another household. From 1940 to 1970, separate and more detailed questions were asked on piped water, bathing, and toilet facilities. In 1970 and 1980, the data on plumbing facilities were shown only for year-round units.

## POVERTY STATUS OF HOUSEHOLDS IN 1989

The data on poverty status of households were derived from answers to the income questions. The income items were asked on a sample basis. Households are classified below the poverty level when the total 1989 income of the family or of the nonfamily householder is below the appropriate poverty threshold. The income of persons living in the household who are unrelated to the householder is not considered when determining the poverty status of a household, nor does their presence affect the household size in determining the appropriate poverty threshold. The poverty thresholds vary depending upon three criteria: size of family, number of children, and age of the family householder or unrelated individual for one and two-persons households. (For more information, see the discussion of "Poverty Status in 1989" and "Income in 1989" under Population Characteristics.)

## **REAL ESTATE TAXES**

The data on real estate taxes were obtained from questionnaire item H21, which was asked at owneroccupied one-family houses, condominiums, and mobile homes. The statistics from this question refer to the total amount of all real estate taxes on the entire

DEFINITIONS OF SUBJECT CHARACTERISTICS

property (land and buildings) payable in 1989 to all taxing jurisdictions, including special assessments, school taxes, county taxes, and so forth.

Real estate taxes include State, local, and all other real estate taxes even if delinquent, unpaid, or paid by someone who is not a member of the household. However, taxes due from prior years are not included. If taxes are paid on other than a yearly basis, the payments are converted to a yearly basis.

The payment for real estate taxes is added to payments for fire, hazard, and flood insurance; utilities and fuels; and mortgages (both first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989." A separate question (H23c) determines whether real estate taxes are included in the mortgage payment to the lender(s). This makes it possible to avoid counting taxes twice in the computations.

**Comparability**—Data for real estate taxes were collected for the first time in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes or trailers, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multiunit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and one-family houses with a business or medical office on the property.

#### ROOMS

The data on rooms were obtained from questionnaire item H3, which was asked at both occupied and vacant housing units. The statistics on rooms are in terms of the number of housing units with a specified number of rooms. The intent of this question is to count the number of whole rooms used for living purposes.

For each unit, rooms include living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, enclosed porches suitable for year-round use, and lodger's rooms. Excluded are strip or pullman kitchens, bathrooms, open porches, balconies, halls or foyers, half-rooms, utility rooms, unfinished attics or basements, or other unfinished space used for storage. A partially divided room is a separate room only if there is a partition from floor to ceiling, but not if the partition consists solely of shelves or cabinets.

**Median Rooms**—This measure divides the room distribution into two equal parts, one-half of the cases falling below the median number of rooms and one-half above the median. In computing median rooms, the whole number is used as the midpoint of the interval; thus, the category "3 rooms" is treated as an interval ranging

from 2.5 to 3.5 rooms. Median rooms is rounded to the nearest tenth. (For more information on medians, see the discussion under "Derived Measures.")

Aggregate Rooms-To calculate aggregate rooms, an arbitrary value of "10" is assigned to rooms for units falling within the terminal category, "9 or more." (For more information on aggregates and means, see the discussion under "Derived Measures.")

Comparability-Data on rooms have been collected since 1940. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are shown for all housing units.

## SECOND OR JUNIOR MORTGAGE PAYMENT

The data on second or junior mortgage payments were obtained from questionnaire items H24a and H24b, which were asked at owner-occupied one-family houses, condominiums, and mobile homes. Question H24a asks whether a second or junior mortgage or a home equity loan exists on the property. Question H24b provides the regular monthly amount required to be paid to the lender on all second or junior mortgages and home equity loans. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

All mortgages other than first mortgages are classified as "junior" mortgages. A second mortgage is a junior mortgage that gives the lender a claim against the property that is second to the claim of the holder of the first mortgage. Any other junior mortgage(s) would be subordinate to the second mortgage. A home equity loan is a line of credit available to the borrower that is secured by real estate. It may be placed on a property that already has a first or second mortgage, or it may be placed on a property that is owned free and clear.

If the respondents answered that no first mortgage existed, but a second mortgage did (as in the above case with a home equity loan), a computer edit assigned the unit a first mortgage and made the first mortgage monthly payment the amount reported in the second mortgage. The second mortgage data were then made "No" in question H24a and blank in question H24b.

Comparability-The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from one single question. Two questions were used in 1990: one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages and home equity loans.

## SELECTED MONTHLY OWNER COSTS

The data on selected monthly owner costs were obtained from questionnaire items H20 through H26 for a sample of owner-occupied one-family houses, condominiums, and mobile homes. Selected monthly owner costs is the sum of payments for mortgages, deeds of trust, contracts to purchase, or similar debts on the property (including payments for the first mortgage, second or junior mortgages, and home equity loans); real estate taxes; fire, hazard, and flood insurance on the property; utilities (electricity, gas, and water); and fuels (oil, coal, kerosene, wood, etc.). It also includes. where appropriate, the monthly condominium fee for condominiums and mobile home costs (personal property taxes, site rent, registration fees, and license fees) for mobile homes.

In certain tabulations, selected monthly owner costs are presented separately for specified owner-occupied housing units (owner-occupied one-family houses on fewer than 10 acres without a business or medical office on the property), owner-occupied condominiums, and owner-occupied mobile homes. Data usually are shown separately for units "with a mortgage" and for units "not mortgaged."

Median Selected Monthly Owner Costs-This measure is rounded to the nearest whole dollar.

Comparability-The components of selected monthly owner costs were collected for the first time in 1980. The 1990 tabulations of selected monthly owner costs for specified owner-occupied housing units are virtually identical to 1980, the primary difference was the amounts of the first and second mortgages were collected in separate questions in 1990, while the amounts were collected in a single question in 1980. The component parts of the item were tabulated for mobile homes and condominiums for the first time in 1990.

In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

#### SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

The information on selected monthly owner costs as a percentage of household income in 1989 is the computed ratio of selected monthly owner costs to monthly household income in 1989. The ratio was computed separately for each unit and rounded to the nearest whole percentage. The data are tabulated separately for specified owner-occupied units, condominiums, and mobile homes.

DEFINITIONS OF SUBJECT CHARACTERISTICS

Separate distributions are often shown for units "with a mortgage" and for units "not mortgaged." Units occupied by households reporting no income or a net loss in 1989 are included in the "not computed" category. (For more information, see the discussion under "Selected Monthly Owner Costs.")

**Comparability**—The components of selected monthly owner costs were collected for the first time in 1980. The tabulations of "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for specified owner-occupied housing units are comparable to 1980.

#### SEWAGE DISPOSAL

The data on sewage disposal were obtained from questionnaire item H16, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Housing units are either connected to a public sewer, to a septic tank or cesspool, or they dispose of sewage by other means. A public sewer may be operated by a government body or by a private organization. A housing unit is considered to be connected to a septic tank or cesspool when the unit is provided with an underground pit or tank for sewage disposal. The category, "Other means" includes housing units which dispose of sewage in some other way.

**Comparability**—Data on sewage disposal have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

#### **SOURCE OF WATER**

The data on source of water were obtained from questionnaire item H15, which was asked at both occupied and vacant housing units. Housing units may receive their water supply from a number of sources. A common source supplying water to five or more units is classified as a "Public system or private company." The water may be supplied by a city, county, water district, water company, etc., or it may be obtained from a well which supplies water to five or more housing units. If the water is supplied from a well serving four or fewer housing units, the units are classified as having water supplied by either an "Individual drilled well" or an "Individual dug well." Drilled wells or small diameter wells are usually less than 1-1/2 feet in diameter. Dug wells are usually larger than 1-1/2 feet wide and generally hand dug. The category, "Some other source" includes water obtained from springs, creeks, rivers, lakes, cisterns, etc.

**Comparability**—Data on source of water have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

DEFINITIONS OF SUBJECT CHARACTERISTICS

#### **TELEPHONE IN HOUSING UNIT**

The data on telephones were obtained from questionnaire item H12, which was asked at occupied housing units. This item was asked on a sample basis. A telephone must be inside the house or apartment for the unit to be classified as having a telephone. Units where the respondent uses a telephone located inside the building but not in the respondent's living quarters are classified as having no telephone.

**Comparability**—Data on telephones in 1980 are comparable to 1990. The 1960 and 1970 censuses collected data on telephone availability. A unit was classified as having a telephone available if there was a telephone number on which occupants of the unit could be reached. The telephone could have been in another unit, in a common hall, or outside the building.

#### TENURE

The data for tenure were obtained from questionnaire item H4, which was asked at all occupied housing units. All occupied housing units are classified as either owner occupied or renter occupied.

**Owner Occupied**—A housing unit is owner occupied if the owner or co-owner lives in the unit even if it is mortgaged or not fully paid for. The owner or co-owner must live in the unit and usually is the person listed in column 1 of the questionnaire. The unit is "Owned by you or someone in this household with a mortgage or loan" if it is being purchased with a mortgage or some other debt arrangement such as a deed of trust, trust deed, contract to purchase, land contract, or purchase agreement. The unit is also considered owned with a mortgage if it is built on leased land and there is a mortgage on the unit.

A housing unit is "Owned by you or someone in this nousehold free and clear (without a mortgage)" if there is no mortgage or other similar debt on the house, apartment, or mobile home including units built on leased land if the unit is owned outright without a mortgage. Although owner-occupied units are divided between mortgaged and owned free and clear on the questionnaire, census data products containing 100percent data show only total owner-occupied counts. More extensive mortgage information was collected on the long-form questionnaire and are shown in census products containing sample data. (For more information, see the discussion under "Mortgage Status.")

**Renter Occupied**—All occupied housing units which are not owner occupied, whether they are rented for cash rent or occupied without payment of cash rent, are classified as renter occupied. "No cash rent" units are separately identified in the rent tabulations. Such units are generally provided free by friends or relatives or in exchange for services such as resident manager, caretaker, minister, or tenant farmer. Housing units on military bases also are classified in the "No cash rent" category. "Rented for cash rent" includes units in continuing care, sometimes called life care arrangements. These arrangements usually involve a contract between one or more individuals and a health services provider guaranteeing the individual shelter, usually a house or apartment, and services, such as meals or transportation to shopping or recreation.

**Comparability**—Data on tenure have been collected since 1890. In 1970, the question on tenure also included a category for condominium and cooperative ownership. In 1980, condominium units and cooperatives were dropped from the tenure item, and since 1980, only condominium units are identified in a separate question.

For 1990, the response categories were expanded to allow the respondent to report whether the unit was owned with a mortgage or free and clear (without a mortgage). The distinction between units owned with a mortgage and units owned free and clear was added in 1990 to improve the count of owner-occupied units. Research after the 1980 census indicated some respondents did not consider their units owned if they had a mortgage.

#### **UNITS IN STRUCTURE**

The data on units in structure (also referred to as "type of structure") were obtained from questionnaire item H2, which was asked at all housing units. A structure is a separate building that either has open spaces on all sides or is separated from other structures by dividing walls that extend from ground to roof. In determining the number of units in a structure, all housing units, both occupied and vacant, are counted. Stores and office space are excluded.

The statistics are presented for the number of housing units in structures of specified type and size, not for the number of residential buildings.

**1-Unit, Detached**—This is a 1-unit structure detached from any other house; that is, with open space on all four sides. Such structures are considered detached even if they have an adjoining shed or garage. A one-family house that contains a business is considered detached as long as the building has open space on all four sides. Mobile homes or trailers to which one or more permanent rooms have been added or built also are included.

**1-Unit, Attached**—This is a 1-unit structure that has one or more walls extending from ground to roof separating it from adjoining structures. In row houses (sometimes called townhouses), double houses, or houses attached to nonresidential structures, each house is a separate, attached structure if the dividing or common wall goes from ground to roof.

**2 or More Units**—These are units in structures containing 2 or more housing units, further categorized as units in structures with 2, 3 or 4, 5 to 9, 10 to 19, 20 to 49, and 50 or more units.

**Mobile Home or Trailer**—Both occupied and vacant mobile homes to which no permanent rooms have been added are counted in this category. Mobile homes or trailers used only for business purposes or for extra sleeping space and mobile homes or trailers for sale on a dealer's lot, at the factory, or in storage are not counted in the housing inventory.

**Other**—This category is for any living quarters occupied as a housing unit that does not fit the previous categories. Examples that fit this category are houseboats, railroad cars, campers, and vans.

**Comparability**—Data on units in structure have been collected since 1940 and on mobile homes and trailers since 1950. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are shown for all housing units. In 1980, the data were collected on a sample basis. The category, "Boat, tent, van, etc." was replaced in 1990 by the category "Other." In some areas, the proportion of units classified as "Other" is far larger than the number of units that were classified as "Boat, tent, van, etc." in 1980.

#### USUAL HOME ELSEWHERE

The data for usual home elsewhere are obtained from questionnaire item B, which was completed by census employees. A housing unit temporarily occupied at the time of enumeration entirely by persons with a usual residence elsewhere is classified as vacant. The occupants are classified as having a "Usual home elsewhere" and are counted at the address of their usual place of residence. Typical examples are people in a vacation home, persons renting living quarters temporarily for work, and migrant workers.

Limitation of the Data—Evidence from previous censuses suggests that in some areas enumerators marked units as "vacant—usual home elsewhere" when they should have marked "vacant—regular."

**Comparability**—Data for usual home elsewhere was tabulated for the first time in 1980.

#### UTILITIES

The data on utility costs were obtained from questionnaire items H20a through H20d, which were asked of occupied housing units. These items were asked on a sample basis.



DEFINITIONS OF SUBJECT CHARACTERISTICS

Questions H20a through H20d asked for the yearly cost of utilities (electricity, gas, water) and other fuels (oil, coal, wood, kerosene, etc.). For the tabulations, these yearly amounts are divided by 12 to derive the average monthly cost and are then included in the computation of "Gross Rent," "Gross Rent as a Percentage of Household Income in 1989," "Selected Monthly Owner Costs," and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

Costs are recorded if paid by or billed to occupants, a welfare agency, relatives, or friends. Costs that are paid by landlords, included in the rent payment, or included in condominium or cooperative fees are excluded.

Limitation of the Data—Research has shown that respondents tended to overstate their expenses for electricity and gas when compared to utility company records. There is some evidence that this overstatement is reduced when yearly costs are asked rather than monthly costs. Caution should be exercised in using these data for direct analysis because costs are not reported for certain kinds of units such as renteroccupied units with all utilities included in the rent and owner-occupied condominium units with utilities included in the condominium fee.

**Comparability**—The data on utility costs have been collected since 1980 for owner-occupied housing units, and since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

## **VACANCY STATUS**

The data on vacancy status were obtained from questionnaire item C1, which was completed by census enumerators. Vacancy status and other characteristics of vacant units were determined by enumerators obtaining information from landlords, owners, neighbors, rental agents, and others. Vacant units are subdivided according to their housing market classification as follows:

For Rent—These are vacant units offered "for rent," and vacant units offered either "for rent" or "for sale."

For Sale Only—These are vacant units being offered "for sale only," including units in cooperatives and condominium projects if the individual units are offered "for sale only."

Rented or Sold, Not Occupied—If any money rent has been paid or agreed upon but the new renter has not moved in as of the date of enumeration, or if the unit has recently been sold but the new owner has not yet moved in, the vacant unit is classified as "rented or sold, not occupied."

DEFINITIONS OF SUBJECT CHARACTERISTICS

For Seasonal, Recreational, or Occasional Use—These are vacant units used or intended for use only in certain seasons or for weekend or other occasional use throughout the year.

Seasonal units include those used for summer or winter sports or recreation, such as beach cottages and hunting cabins. Seasonal units also may include quarters for such workers as herders and loggers. Interval ownership units, sometimes called shared-ownership or time-sharing condominiums, also are included here.

For Migrant Workers—These include vacant units intended for occupancy by migratory workers employed in farm work during the crop season. (Work in a cannery, a freezer plant, or a food-processing plant is not farm work.)

Other Vacant—If a vacant unit does not fall into any of the classifications specified above, it is classified as "other vacant." For example, this category includes units held for occupancy by a caretaker or janitor, and units held for personal reasons of the owner.

**Homeowner Vacancy Rate**—This is the percentage relationship between the number of vacant units for sale and the total homeowner inventory. It is computed by dividing the number of vacant units for sale only by the sum of the owner-occupied units and the number of vacant units that are for sale only.

**Rental Vacancy Rate**—This is the percentage relationship of the number of vacant units for rent to the total rental inventory. It is computed by dividing the number of vacant units for rent by the sum of the renteroccupied units and the number of vacant units for rent.

**Comparability**—Data on vacancy status have been collected since 1940. For 1990, the category, "seasonal/recreational/occasional use" combined vacant units classified in 1980 as "seasonal or migratory" and "held for occasional use." Also, in 1970 and 1980, housing characteristics generally were presented only for yearround units. In 1990, housing characteristics are shown for all housing units.

#### VALUE

The data on value (also referred to as "price asked" for vacant units) were obtained from questionnaire item H6, which was asked at housing units that were owned, being bought, or vacant for sale at the time of enumeration. Value is the respondent's estimate of how much the property (house and lot, mobile home and lot, or condominium unit) would sell for if it were for sale. If the house or mobile home was owned or being bought, but the land on which it sits was not, the respondent was asked to estimate the combined value of the house or mobile home and the land. For vacant units, value was the price asked for the property.

Value was tabulated separately for all owner-occupied and vacant-for-sale housing units, owner-occupied and vacant-for-sale mobile homes or trailers, and specified owner-occupied and specified vacant-for-sale housing units. Specified owner-occupied and specified vacantfor-sale housing units include only one-family houses on fewer than 10 acres without a business or medical office on the property. The data for "specified units" exclude mobile homes, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings.

Median and Quartile Value—The median divides the value distribution into two equal parts. Quartiles divide the value distribution into four equal parts. These measures are rounded to the nearest hundred dollars. (For more information on medians and quartiles, see the discussion under "Derived Measures.")

**Aggregate Value**—To calculate aggregate value, the amount assigned for the category "Less than \$10,000" is \$9,000. The amount assigned to the category "\$500,000 or more" is \$600,000. Mean value is rounded to the nearest hundred dollars. (For more information on aggregates and means, see the discussion under "Derived Measures.")

**Comparability**—In 1980, value was asked only at owneroccupied or vacant-for-sale one-family houses on fewer than 10 acres with no business or medical office on the property and at all owner-occupied or vacant-for-sale condominium housing units. Mobile homes were excluded. Value data were presented for specified owner-occupied housing units, specified vacant-for-sale-only housing units, and owner-occupied condominium housing units.

In 1990, the question was asked at all owner-occupied or vacant-for-sale-only housing units with no exclusions. Data presented for specified owner-occupied and specified vacant-for-sale-only housing units will include onefamily condominium houses but not condominiums in multi-unit structures since condominium units are now identified only in long-form questionnaires.

For 1990, quartiles have been added because the range of values and rents in the United States has increased in recent years. Upper and lower quartiles can be used to note large value and rent differences among various geographic areas.

#### **VEHICLES AVAILABLE**

The data on vehicles available were obtained from questionnaire item H13, which was asked at occupied housing units. This item was asked on a sample basis. These data show the number of households with a specified number of passenger cars, vans, and pickup or panel trucks of one-ton capacity or less kept at home and available for the use of household members. Vehicles rented or leased for one month or more, company vehicles, and police and government vehicles are included if kept at home and used for nonbusiness purposes. Dismantled or immobile vehicles are excluded. Vehicles kept at home but used only for business purposes also are excluded.

**Vehicles Per Household**—This is computed by dividing aggregate vehicles available by the number of occupied housing units.

Limitation of the Data—The 1980 census evaluations showed that the number of automobiles was slightly overreported; the number of vans and trucks slightly underreported. The statistics do not measure the number of vehicles privately owned or the number of households owning vehicles.

**Comparability**—Data on automobiles available were collected from 1960 to 1980. In 1980, a separate question also was asked on the number of trucks and vans. The data on automobiles and trucks and vans were presented separately and also as a combined vehicles available tabulation. The 1990 data are comparable to the 1980 vehicles available tabulations.

## YEAR HOUSEHOLDER MOVED INTO UNIT

The data on year householder moved into unit were obtained from questionnaire item H8, which was asked at occupied housing units. This item was asked on a sample basis. These data refer to the year of the latest move by the householder. If a householder moved back into a housing unit he or she previously occupied, the year of the latest move was reported. If the householder moved from one apartment to another within the same building, the year the householder moved into the present apartment was reported. The intent is to establish the year the present occupancy by the householder began. The year that the householder moved in is not necessarily the same year other members of the household moved, although in the great majority of cases an entire household moves at the same time.

**Comparability**—In 1960 and 1970, this question was asked of every person and included in population reports. This item in housing tabulations refers to the year the householder moved in. In 1980 and 1990, the question was asked only of the householder.

## YEAR STRUCTURE BUILT

The data on year structure built were obtained from questionnaire item H17, which was asked at both occupied and vacant housing units. This item was asked on

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a sample basis. Data on year structure built refer to when the building was first constructed, not when it was remodeled, added to, or converted. For housing units under construction that met the housing unit definition—that is, all exterior windows, doors, and final usable floors were in place—the category "1989 or March 1990" was used. For a houseboat or a mobile home or trailer, the manufacturer's model year was assumed to be the year built. The figures shown in census data products relate to the number of units built during the specified periods that were still in existence at the time of enumeration.

**Median Year Structure Built**—The median divides the distribution into two equal parts. The median is rounded to the nearest calendar year. Median age of housing can be obtained by subtracting median year structure built from 1990. For example, if the median year structure built is 1957, the median age of housing in that area is 33 years (1990 minus 1957).

Limitation of the Data—Data on year structure built are more susceptible to errors of response and nonreporting than data on many other items because respondents must rely on their memory or on estimates by persons who have lived in the neighborhood a long time. Available evidence indicates there is underreporting in the older-year-structure-built categories, especially "Built in 1939 or earlier." The introduction of the "Don't know" category (see the discussion on "Comparability") may have resulted in relatively higher allocation rates. Data users should refer to the discussion in Appendix C, Accuracy of the Data, and to the allocation tables.

**Comparability**—Data on year structure built were collected for the first time in the 1940 census. Since then, the response categories have been modified to accommodate the 10-year period between each census. In 1990, the category, "Don't Know," was added in an effort to minimize the response error mentioned in the paragraph above on limitation of the data.

## DERIVED MEASURES

Census data products include various derived measures, such as medians, means, and percentages, as well as certain rates and ratios. Derived measures that round to less than 0.1 are not shown but indicated as zero. In printed reports, zero is indicated by a dash (-).

#### Interpolation

Interpolation frequently is used in calculating medians or quartiles based on interval data and in approximating standard errors from tables. Linear interpolation is used to estimate values of a function between two

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known values. "Pareto interpolation" is an alternative to linear interpolation. It is used by the Census Bureau in calculating median income within intervals wider than \$2,500. In Pareto interpolation, the median is derived by interpolating between the logarithms of the upper and lower income limits of the median category.

#### Mean

This measure represents an arithmetic average of a set of values. It is derived by dividing the sum of a group of numerical items (or aggregate) by the total number of items. Aggregates are used in computing mean values. For example, mean family income is obtained by dividing the aggregate of all income reported by persons in families by the total number of families. (Additional information on means and aggregates is included in the separate explanations of many population and housing subjects.)

#### Median

This measure represents the middle value in a distribution. The median divides the total frequency into two equal parts: one-half of the cases fall below the median and one-half of the cases exceed the median. The median is computed on the basis of the distribution as tabulated, which is sometimes more detailed than the distribution shown in specific census publications and other data products.

In reports, if the median falls within the upper interval of the tabulation distribution, the median is shown as the initial value of the interval followed by a plus sign (+); if within the lower interval, the median is shown as the upper value of the category followed by a minus sign (-). For summary tape files, if the median falls within the upper or lower interval, it is set to a specified value. (Additional information on medians is included in the separate explanations of many population and housing subjects.)

## Percentages, Rates, and Ratios

These measures are frequently presented in census products to compare two numbers or two sets of measurements. These comparisons are made in two ways: (1) subtraction, which provides an absolute measure of the difference between two items, and (2) the quotient of two numbers, which provides a relative measure of difference.

#### **Quartile**

This measure divides a distribution into four equal parts. The first quartile (or lower quartile) is the value that defines the upper limit of the lowest one-quarter of the cases. The second quartile is the median. The third quartile (or upper quartile) defines the lower limit of the upper one-quarter of the cases in the distribution. The difference between the upper and lower quartiles is called the interquartile range. This interquartile range is less affected by wide variations than is the mean. Quartiles are presented for certain financial characteristics such as housing value and rent.

DEFINITIONS OF SUBJECT CHARACTERISTICS

# APPENDIX C. Accuracy of the Data

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The data contained in this data product are based on

actual figures that would have been obtained from a complete count. Estimates derived from a sample are expected to be different from the 100-percent figures because they are subject to sampling and nonsampling errors. Sampling error in data arises from the selection of persons and housing units to be included in the sample. Nonsampling error affects both sample and 100-percent data, and is introduced as a result of errors that may occur during the collection and processing phases of the census. Provided below is a detailed discussion of both types of errors and a description of the estimation procedures.

#### SAMPLE DESIGN

Every person and housing unit in the United States was asked certain basic demographic and housing questions (for example, race, age, marital status, housing value, or rent). A sample of these persons and housing units was asked more detailed questions about such items as income, occupation, and housing costs in addition to the basic demographic and housing information. The primary sampling unit for the 1990 census was the housing unit, including all occupants. For persons living in group quarters, the sampling unit was the person. Persons in group quarters were sampled at a 1-in-6 rate.

The sample designation method depended on the data collection procedures. Approximately 95 percent of the population was enumerated by the mailback procedure. In these areas, the Bureau of the Census either purchased a commercial mailing list, which was updated by the United States Postal Service and Census Bureau field staff, or prepared a mailing list by canvassing and listing each address in the area prior to Census Day. These lists were computerized and the appropriate units

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were electronically designated as sample units. The questionnaires were either mailed or hand-delivered to the addresses with instructions to complete and mail back the form.

Housing units in governmental units with a precensus (1988) estimated population of fewer than 2,500 persons were sampled at 1-in-2. Governmental units were defined for sampling purposes as all incorporated places, all counties. all county equivalents such as parishes in Louisiana, and all minor civil divisions in Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampchica, New Jacoba Mark, New Hamp-

sus tracts and block numbering areas (BNA's) with a precensus housing unit count below 2,000 housing units were sampled at 1-in-6 for those portions not in small governmental units (governmental units with a population less than 2,500). Housing units within census tracts and BNA's with 2,000 or more housing units were sampled at 1-in-8 for those portions not in small governmental units.

In list/enumerate areas (about 5 percent of the population), each enumerator was given a blank address register with designated sample lines. Beginning about Census Day, the enumerator systematically canvassed an assigned area and listed all housing units in the address register in the order they were encountered. Completed questionnaires, including sample information for any housing unit listed on a designated sample line, were collected. For all governmental units with fewer than 2,500 persons in list/enumerate areas, a 1-in-2 sampling rate was used. All other list/enumerate areas were sampled at 1-in-6.

Housing units in American Indian reservations, tribal jurisdiction statistical areas, and Alaska Native villages were sampled according to the same criteria as other governmental units, except the sampling rates were based on the size of the American Indian and Alaska Native population in those areas as measured in the 1980 census. Trust lands were sampled at the same rate as their associated American Indian reservations. Census designated places in Hawaii were sampled at the same rate as governmental units because the Census Bureau does not recognize incorporated places in Hawaii.

The purpose of using variable sampling rates was to provide relatively more reliable estimates for small areas and decrease respondent burden in more densely populated areas while maintaining data reliability. When all sampling rates were taken into account across the Nation, approximately one out of every six housing units in the Nation was included in the 1990 census sample.

#### **CONFIDENTIALITY OF THE DATA**

To maintain the confidentiality required by law (Title 13, United States Code), the Bureau of the Census applies a confidentiality edit to the 1990 census data to assure that published data do not disclose information about specific individuals, households, or housing units. As a result, a small amount of uncertainty is introduced into the estimates of census characteristics. The sample itself provides adequate protection for most areas for which sample data are published since the resulting data are estimates of the actual counts; however, small areas require more protection. The edit is controlled so that the basic structure of the data is preserved.

The confidentiality edit is implemented by selecting a small subset of individual households from the internal sample data files and blanking a subset of the data items on these household records. Responses to those data items were then imputed using the same imputation procedures that were used for nonresponse. A larger subset of households is selected for the confidentiality edit for small areas to provide greater protection for these areas. The editing process is implemented in such a way that the quality and usefulness of the data were preserved.

#### **ERRORS IN THE DATA**

Since statistics in this data product are based on a sample, they may differ somewhat from 100-percent figures that would have been obtained if all housing units, persons within those housing units, and persons living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, etc. The sample estimate also would differ from other samples of housing units, persons within those housing units, and persons living in group quarters. The deviation of a sample estimate from the average of all possible samples is called the sampling error. The standard error of a sample estimate is a measure of the variation among the estimates from all the possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample estimate and its estimated standard error permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples. Described below is the method of calculating standard errors and confidence intervals for the data in this product.

In addition to the variability which arises from the sampling procedures, both sample data and 100-percent data are subject to nonsampling error. Nonsampling error may be introduced during any of the various complex operations used to collect and process census data. For example, operations such as editing, reviewing, or handling questionnaires may introduce error into the data. A detailed discussion of the sources of nonsampling error is given in the section on "Control of Nonsampling Error" in this appendix.

Nonsampling error may affect the data in two ways. Errors that are introduced randomly will increase the variability of the data and should therefore be reflected in the standard error. Errors that tend to be consistent in one direction will make both sample and 100-percent data biased in that direction. For example, if respondents consistently tend to under-report their income, then the resulting counts of households or families by income category will tend to be understated for the higher income categories and overstated for the lower income categories. Such biases are not reflected in the standard error.

#### **Calculation of Standard Errors**

Totals and Percentages-Tables A through C in this appendix contain the information necessary to calculate the standard errors of sample estimates in this data product. To calculate the standard error, it is necessary to know the basic standard error for the characteristic (given in table A or B) that would result under a simple random sample design (of persons, households, or housing units) and estimation technique; the design factor for the particular characteristic estimated (given in table C); and the number of persons or housing units in the tabulation area and the percent of these in the sample. For machine-readable products, the percent-insample is included in a data matrix on the file for each tabulation area. In printed reports, the percent-in-sample is provided in data tables at the end of the statistical tables that compose the report. The design factors reflect the effects of the actual sample design and complex ratio estimation procedure used for the 1990 census. Tape purchasers will receive table C, the table of design factors, as a supplement to the technical documentation. Table C is included in this appendix for printed reports.

The steps given below should be used to calculate the standard error of an estimate of a total or a percentage contained in this product. A percentage is defined here as a ratio of a numerator to a denominator where the numerator is a subset of the denominator. For example, the proportion of Black teachers is the ratio of Black teachers to all teachers.

- 1. Obtain the standard error from table A or B (or use the formula given below the table) for the estimated total or percentage, respectively.
- Find the geographic area to which the estimate applies in the appropriate percent-in-sample table or appropriate matrix, and obtain the person or housing unit "percent-in-sample" figure for this

area. Use the person "percent-in-sample" figure for person and family characteristics. Use the housing unit "percent-in-sample" figure for housing unit characteristics.

3. Use table C to obtain the design factor for the characteristic (for example, employment status, school enrollment) and the range that contains the percent- in-sample with which you are working. Multiply the basic standard error by this factor.

The unadjusted standard errors of zero estimates or of very small estimated totals or percentages will approach zero. This is also the case for very large percentages or estimated totals that are close to the size of the tabulation areas to which they correspond. Nevertheless, these estimated totals and percentages still are subject to sampling and nonsampling variability, and an estimated standard error of zero (or a very small standard error) is not appropriate. For estimated percentages that are less than 2 or greater than 98, use the basic standard errors in table B that appear in the "2 or 98" row. For an estimated total that is less than 50 or within 50 of the total size of the tabulation area, use a basic standard error of 16.

An illustration of the use of the tables is given in the section entitled "Use of Tables to Compute Standard Errors."

**Sums and Differences**—The standard errors estimated from these tables are not directly applicable to sums of and differences between two sample estimates. To estimate the standard error of a sum or difference, the tables are to be used somewhat differently in the following three situations:

- 1. For the sum of or difference between a sample estimate and a 100-percent value, use the standard error of the sample estimate. The complete count value is not subject to sampling error.
- For the sum of or difference between two sample estimates, the appropriate standard error is approximately the square root of the sum of the two individual standard errors squared; that is, for standard errors:

SE 
$$\hat{x}$$
 and SE  $\hat{y}$  of estimates  $\hat{X}$  and  $\hat{Y}$ :

$$SE_{(X+Y)} = SE_{(X-Y)} = \sqrt{(SE_X)^2 + (SE_Y)^2}$$

This method, however, will underestimate (overestimate) the standard error if the two items in a sum are highly positively (negatively) correlated or if the two items in a difference are highly negatively (positively) correlated. This method may also be used for the difference between (or sum of) sample estimates from two censuses or from a census sample and another survey. The

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standard error for estimates not based on the 1990 census sample must be obtained from an appropriate source outside of this appendix.

3. For the differences between two estimates, one of which is a subclass of the other, use the tables directly where the calculated difference is the estimate of interest. For example, to determine the estimate of non-Black teachers, one may subtract the estimate of Black teachers from the estimate of total teachers. To determine the standard error of the estimate of non-Black teachers apply the above formula directly.

**Ratios**—Frequently, the statistic of interest is the ratio of two variables, where the numerator is not a subset of the denominator. For example, the ratio of teachers to students in public elementary schools. The standard error of the ratio between two sample estimates is estimated as follows:

- 1. If the ratio is a proportion, then follow the procedure outlined for "Totals and Percentages."
- 2. If the ratio is not a proportion, then approximate the standard error using the formula below.

$$SE_{(\hat{X}/\hat{Y})} = \frac{\hat{X}}{\hat{Y}} \sqrt{\frac{(SE_{\hat{X}})^2}{\hat{X}^2} + \frac{(SE_{\hat{Y}})^2}{\hat{Y}^2}}$$

Medians-For the standard error of the median of a characteristic, it is necessary to examine the distribution from which the median is derived, as the size of the base and the distribution itself affect the standard error. An approximate method is given here. As the first step, compute one-half of the number on which the median is based (refer to this result as N/2). Treat N/2 as if it were an ordinary estimate and obtain its standard error as instructed above. Compute the desired confidence interval about N/2. Starting with the lowest value of the characteristic, cumulate the frequencies in each category of the characteristic until the sum equals or first exceeds the lower limit of the confidence interval about N/2. By linear interpolation, obtain a value of the characteristic corresponding to this sum. This is the lower limit of the confidence interval of the median. In a similar manner, continue cumulating frequencies until the sum equals or exceeds the count in excess of the upper limit of the interval about N/2. Interpolate as before to obtain the upper limit of the confidence interval for the estimated median.

When interpolation is required in the upper openended interval of a distribution to obtain a confidence bound, use 1.5 times the lower limit of the open-ended confidence interval as the upper limit of the open-ended interval.

#### **Confidence Intervals**

A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain the average value of the estimated characteristic that results over all possible samples, with a known probability. For example, if all possible samples that could result under the 1990 census sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

- 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;
- 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.
- Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

The intervals are referred to as 68 percent, 90 percent, and 95 percent confidence intervals, respectively.

The average value of the estimated characteristic that could be derived from all possible samples is or is not contained in any particular computed interval. Thus, we cannot make the statement that the average value has a certain probability of falling between the limits of the calculated confidence interval. Rather, one can say with a specified probability of confidence that the calculated confidence interval includes the average estimate from all possible samples (approximately the 100-percent value).

Confidence intervals also may be constructed for the ratio, sum of, or difference between two sample figures. This is done by first computing the ratio, sum, or difference, then obtaining the standard error of the ratio, sum, or difference (using the formulas given earlier), and finally forming a confidence interval for this estimated ratio, sum, or difference as above. One can then say with specified confidence that this interval includes the ratio, sum, or difference that would have been obtained by averaging the results from all possible samples.

The estimated standard errors given in this appendix do not include all portions of the variability due to nonsampling error that may be present in the data. The standard errors reflect the effect of simple response variance, but not the effect of correlated errors introduced by enumerators, coders, or other field or processing personnel. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed using these estimated standard errors may not meet the stated levels of confidence (i.e., 68, 90, or 95 percent). Thus, some care must be exercised in the interpretation of the data in this data product based on the estimated standard errors.

A standard sampling theory text should be helpful if the user needs more information about confidence intervals and nonsampling errors.

#### **Use of Tables to Compute Standard Errors**

The following is a hypothetical example of how to compute a standard error of a total and a percentage. Suppose a particular data table shows that for City A 9,948 persons out of all 15,888 persons age 16 years and over were in the civilian labor force. The percentin-sample table lists City A with a percent-in-sample of 16.0 percent (Persons column). The column in table C which includes 16.0 percent-in-sample shows the design factor to be 1.1 for "Employment status."

The basic standard error for the estimated total 9,948 may be obtained from table A or from the formula given below table A. In order to avoid interpolation, the use of the formula will be demonstrated here. Suppose that the total population of City A was 21,220. The formula for the basic standard error, SE, is

 $SE(9,948) = \sqrt{5(9,948)(1-9,948/21,220)}$ 

= 163 persons.

The standard error of the estimated 9,948 persons 16 years and over who were in the civilian labor force is found by multiplying the basic standard error 163 by the design factor, 1.1 from table C. This yields an estimated standard error of 179 for the total number of persons 16 years and over in City A who were in the civilian labor force.

The estimated percent of persons 16 years and over who were in the civilian labor force in City A is 62.6. From table B, the unadjusted standard error is found to be approximately 0.85 percentage points. The standard error for the estimated 62.6 percent of persons 16 years and over who were in the civilian labor force is  $0.85 \times 1.1$ = 0.94 percentage points.

A note of caution concerning numerical values is necessary. Standard errors of percentages derived in this manner are approximate. Calculations can be expressed to several decimal places, but to do so would indicate more precision in the data than is justifiable. Final results should contain no more than two decimal places when the estimated standard error is one percentage point (i.e., 1.00) or more.

In the previous example, the standard error of the 9,948 persons 16 years and over in City A who were in the civilian labor force was found to be 179. Thus, a 90

percent confidence interval for this estimated total is found to be:

[9,948 - 1.645(179)] to [9,948 + 1.645(179)] or 9,654 to 10,242

One can say, with about 90 percent confidence, that this interval includes the value that would have been obtained by averaging the results from all possible samples.

The following is an illustration of the calculation of standard errors and confidence intervals when a difference between two sample estimates is obtained. For example, suppose the number of persons in City B age 16 years and over who were in the civilian labor force was 9,314 and the total number of persons 16 years and over was 16,666. Further suppose the population of City B was 25,225. Thus, the estimated percentage of persons 16 years and over who were in the civilian labor force is 55.9 percent. The unadjusted standard error determined using the formula provided at the bottom of table B is 0.86 percentage points. We find that City B had a percent-in-sample of 15.7. The range which includes 15.7 percent-in-sample in table C shows the design factor to be 1.1 for "Employment Status." Thus, the approximate standard error of the percentage (55.9 percent) is 0.86 x 1.1 = 0.95 percentage points.

Now suppose that one wished to obtain the standard error of the difference between City A and City B of the percentages of persons who were 16 years and over and who were in the civilian labor force. The difference in the percentages of interest for the two cities is:

62.6 - 55.9 = 6.7 percent.

Using the results of the previous example:

$$SE(6.7) = \sqrt{(SE(62.6))^2 + (SE(55.9))^2} = \sqrt{(0.94)^2 + (0.95)^2}$$

#### = 1.34 percentage points

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

$$[6.70 - 1.645(1.34)]$$
 to  $[6.70 + 1.645(1.34)]$   
or

#### 4.50 to 8.90

One can say with 90 percent confidence that the interval includes the difference that would have been obtained by averaging the results from all possible samples.

For reasonably large samples, ratio estimates are normally distributed, particularly for the census population. Therefore, if we can calculate the standard error of a ratio estimate then we can form a confidence interval around the ratio. Suppose that one wished to obtain the standard error of the ratio of the estimate of persons who were 16 years and over and who were in the civilian labor force in City A to the estimate of persons who were 16 years and over and who were in the civilian labor force in City B. The ratio of the two estimates of interest is:

$$9948/9314 = 1.07$$
  
SE (1.07) -  $\left<\frac{9948}{9314}\right> \sqrt{\frac{179^2}{(9948)^2} + \frac{188^2}{(9314)^2}}$ 

= .029

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

#### ESTIMATION PROCEDURE

The estimates which appear in this publication were obtained from an iterative ratio estimation procedure (iterative proportional fitting) resulting in the assignment of a weight to each sample person or housing unit record. For any given tabulation area, a characteristic total was estimated by summing the weights assigned to the persons or housing units possessing the characteristic in the tabulation area. Estimates of family or household characteristics were based on the weight assigned to the family member designated as householder. Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value 6, all characteristics of that person or housing unit would be tabulated with the weight of 6. The estimation procedure, however, did assign weights varving from person to person or housing unit to housing unit. The estimation procedure used to assign the weights was performed in geographically defined "weighting areas." Weighting areas generally were formed of contiguous geographic units which agreed closely with census tabulation areas within counties. Weighting areas were required to have a minimum sample of 400 persons. Weighting areas never crossed State or county boundaries. In small counties with a sample count below 400 persons, the minimum required sample condition was relaxed to permit the entire county to become a weighting area.

Within a weighting area, the ratio estimation procedure for persons was performed in four stages. For persons, the first stage applied 17 household-type groups. The second stage used two groups: sampling rate of 1-in-2; sampling rate less than 1-in-2. The third stage used the dichotomy householders/ nonhouseholders. The fourth stage applied 180 aggregate age-sex-race-Hispanic origin categories. The stages were as follows:

#### PERSONS

#### STAGE I: TYPE OF HOUSEHOLD

Group	Persons in Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Persons in Housing Units With a Family Without Own Children Under 18
<b>6-</b> 10	2 through 8 or more persons in housing unit
	Persons in All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit
	Persons in Group Quarters
17	Persons in Group Quarters
STAGE II: SAMI	PLING RATES
1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2
STAGE III: HOU	SEHOLDER/NONHOUSEHOLDER
1 2	Householder Nonhouseholder
STAGE IV: AGE	E/SEX/RACE/HISPANIC ORIGIN
Group	White Persons of Hispanic Origin
	Male
1	0 to 4 years
2	5 to 14 years
3 4	15 to 19 years 20 to 24 years
4 5	25 to 34 years
6	35 to 54 years
7	55 to 64 years
8	65 to 74 years
9	75 years and over
10-18	Female Same age categories as groups 1 through 9.
	-
19-36	Persons Not of Hispanic Origin Same sex and age categories as groups 1 through 18.
	Black
37-72	Same age/sex/Hispanic origin cat- egories as groups 1 through 36.

#### STAGE II: SAMPLING RATES

73-108	Asian or Pacific Islander Same age/sex/Hispanic origin cat- egories as groups 1 through 36.
109-144	American Indian, Eskimo, or Aleut Same age/sex/Hispanic origin cat- egories as groups 1 through 36.
	Other Race (includes those races not listed above)
145-180	Same age/sex/Hispanic origin cat- egories as groups 1 through 36.

Within a weighting area, the first step in the estimation procedure was to assign an initial weight to each sample person record. This weight was approximately equal to the inverse of the probability of selecting a person for the census sample.

The next step in the estimation procedure, prior to iterative proportional fitting, was to combine categories in each of the four estimation stages, when needed to increase the reliability of the ratio estimation procedure. For each stage, any group that did not meet certain criteria for the unweighted sample count or for the ratio of the 100-percent to the initially weighted sample count, was combined, or collapsed, with another group in the same stage according to a specified collapsing pattern. At the fourth stage, an additional criterion concerning the number of complete count persons in each race/ Hispanic origin category was applied.

As the final step, the initial weights underwent four stages of ratio adjustment applying the grouping procedures described above. At the first stage, the ratio of the complete census count to the sum of the initial weights for each sample person was computed for each stage I group. The initial weight assigned to each person in a group was then multiplied by the stage I group ratio to produce an adjusted weight.

In stage II, the stage I adjusted weights were again adjusted by the ratio of the complete census count to the sum of the stage I weights for sample persons in each stage II group. Next, at stage III, the stage II weights were adjusted by the ratio of the complete census count to the sum of the stage II weights for sample persons in each stage III group. Finally, at stage IV, the stage III weights were adjusted by the ratio of the complete census count to the sum of the stage III weights for sample persons in each stage IV group. The four stages of ratio adjustment were performed two times (two iterations) in the order given above. The weights obtained from the second iteration for stage IV were assigned to the sample person records. However, to avoid complications in rounding for tabulated data, only whole number weights were assigned. For example, if the final weight of the persons in a particular group was 7.25 then 1/4 of the sample persons in this group were randomly assigned a weight of 8, while the remaining 3/4 received a weight of 7.

The ratio estimation procedure for housing units was essentially the same as that for persons, except that vacant units were treated differently. The occupied housing unit ratio estimation procedure was done in four stages, and the vacant housing unit ratio estimation procedure was done in a single stage. The first stage for occupied housing units applied 16 household type categories, while the second stage used the two sampling categories described above for persons. The third stage applied three units-in-structure categories; i.e. single units, multi-unit less than 10 and multi-unit 10 or more. The fourth stage could potentially use 200 tenure-race-Hispanic origin-value/ rent groups. The stages for ratio estimation for housing units were as follows:

## OCCUPIED HOUSING UNITS

STAGE I: TYPE OF HOUSEHOLD

Group	Housing Units With a Family With Own Children Under 18	41
1	2 persons in housing unit	
2	3 persons in housing unit	
3	4 persons in housing unit	
4	5 to 7 persons in housing unit	61
5	8 or more persons in housing unit	
	Housing Units With a Family Without Own Children Under 18	81
6-10	2 through 8 or more persons in housing unit	
	All Other Housing Units	
11	1 person in housing unit	
12-16	2 through 8 or more persons in	10
	housing unit	10
		10
STAGE II: S	SAMPLING RATE CATEGORY	10
1	Sampling rate of 1-in-2	104
2	Sampling rate less than 1-in-2	10) 10(
OTAOF		107
	UNITS IN STRUCTURE	108
1	Single unit structure	109
2	Multi-unit structure consisting of	110
~	fewer than 10 individual units	
3	Multi-unit structure consisting of 10 or more individual units	
		111
STAGE IV: "	TENURE/RACE AND HISPANIC ORIGIN OF HOUSEHOLDER/VALUE OR RENT	
Group	Owner	121
	White Householder	121
	Householder of Hispanic Origin Value	
1	Less than \$20,000	
2	\$20,000 to \$39,999	1
3	\$40,000 to \$59,999	<sup>1</sup> Vε hous
4	\$60,000 to \$79,999	of la

## STAGE IV: TENURE/ RACE AND HISPANIC ORIGIN OF HOUSEHOLDER/VALUE OR RENT-

	CON.
5	\$80,000 to \$99,999
6	\$100,000 to \$149,999
7	\$150,000 to \$249,999
8	\$250,000 to \$299,999
9	\$300,000 or more
10	Other <sup>1</sup>
	Householder Not of Hispanic Origin
11-20	Same value categories as groups 1 through 10
	Black Householder
21-40	Same Hispanic origin/value cate- gories as groups 1 through 20
	Asian or Pacific Islander House- holder
41-60	Same Hispanic origin/value cate- gories as groups 1 through 20
	American Indian, Eskimo, or Aleut Householder
61-80	Same Hispanic origin/value cate- gories as groups 1 through 20
	Householder of Other Race
81-100	Same Hispanic origin/value cate- gories as groups 1 through 20
	Renter
	White Householder
	Householder of Hispanic origin
	Rent
01	Less than \$100
02	\$100 to \$199
03	\$200 to \$299
04	\$300 to \$399
05	\$400 to \$499
06	\$500 to \$599
07	\$600 to \$749
08	\$750 to \$999
09	\$1,000 or more
10	No cash rent
	Householder Not of Hispanic Origin
11-120	Same rent categories as
	groups 101 through 110
04.475	Black Householder
21-140	Same Hispanic origin/rent cate- gories as groups 101 through 120

<sup>1</sup>Value of units in this category results from other factors besides housing value alone, for example, inclusion of more than 10 acres of land, or presence of a business establishment on the premises.

	Con.
141-160	Asian or Pacific Islander House- holder Same Hispanic origin/rent cate- gories as groups 101 through 120
161-180	American Indian, Eskimo, or Aleut Householder Same Hispanic origin/rent cate- gories as groups 101 through 120
181-200	Householder of Other Race Same Hispanic origin/rent cate- gories as groups 101 through 120
	Vacant Housing Units
1 2 3	Vacant for rent Vacant for sale Other vacant

STAGE IV: TENURE/ RACE AND HISPANIC ORIGIN

OF HOUSEHOLDER/VALUE OR RENT-

The estimates produced by this procedure realize some of the gains in sampling efficiency that would have resulted if the population had been stratified into the ratio estimation groups before sampling, and if the sampling rate had been applied independently to each group. The net effect is a reduction in both the standard error and the possible bias of most estimated characteristics to levels below what would have resulted from simply using the initial, unadjusted weight. A by-product of this estimation procedure is that the estimates from the sample will, for the most part, be consistent with the complete count figures for the population and housing unit groups used in the estimation procedure.

#### **Control of Nonsampling Error**

As mentioned earlier, both sample and 100-percent data are subject to nonsampling error. This component of error could introduce serious bias into the data, and the total error could increase dramatically over that which would result purely from sampling. While it is impossible to completely eliminate nonsampling error from an operation as large and complex as the decennial census, the Bureau of the Census attempted to control the sources of such error during the collection and processing operations. Described below are the primary sources of nonsampling error and the programs instituted for control of this error. The success of these programs, however, was contingent upon how well the instructions actually were carried out during the census. As part of the 1990 census evaluation program, both the effects of these programs and the amount of error remaining after their application will be evaluated.

**Undercoverage**—It is possible for some households or persons to be missed entirely by the census. The undercoverage of persons and housing units can introduce biases into the data.

Several coverage improvement programs were Implemented during the development of the census address list and census enumeration and processing to minimize undercoverage of the population and housing units. These programs were developed based on experience from the 1980 census and results from the 1990 census testing cycle. In developing and updating the census address list, the Census Bureau used a variety of specialized procedures in different parts of the country.

- In the large urban areas, the Census Bureau purchased and geocoded address lists. Concurrent with geocoding, the United States Postal Service (USPS) reviewed and updated this list. After the postal check, census enumerators conducted a dependent canvass and update operation. In the fall of 1989, local officials were given the opportunity to examine block counts of address listings (local review) and identify possible errors. Prior to mailout, the USPS conducted a final review.
- In small cities, suburban areas, and selected rural parts of the country, the Census Bureau created the address list through a listing operation. The USPS reviewed and updated this list, and the Census Bureau reconciled USPS corrections and updated through a field operation. In the fall of 1989, local officials participated in reviewing block counts of address listings. Prior to mailout, the USPS conducted a final review.
- The Census Bureau (rather than the USPS) conducted a listing operation in the fall of 1989 and delivered census questionnaires in selected rural and seasonal housing areas in March of 1990. In some inner-city public housing developments, whose addresses had been obtained via the purchased address list noted above, census questionnaires were also delivered by Census Bureau enumerators.

Coverage improvement programs continued during and after mailout. A recheck of units initially classified as vacant or nonexistent improved further the coverage of persons and housing units. All local officials were given the opportunity to participate in a post-census local review, and census enumerators conducted an additional recanvass. In addition, efforts were made to improve the coverage of unique population groups, such as the homeless and parolees/ probationers. Computer and clerical edits and telephone and personal visit followup also contributed to improved coverage.

More extensive discussion of the programs implemented to improve coverage will be published by the Census Bureau when the evaluation of the coverage improvement program is completed.

ing the questionnaire or responding to the questions posed by an enumerator could serve as a source of error, although the questions were phrased as clearly as possible based on precensus tests, and detailed instructions for completing the questionnaire were provided to each household. In addition, respondents' answers were edited for completeness and consistency, and problems were followed up as necessary.

Respondent and Enumerator Error --- The person answer-

The enumerator may misinterpret or otherwise incorrectly record information given by a respondent; may fail to collect some of the information for a person or household; or may collect data for households that were not designated as part of the sample. To control these problems, the work of enumerators was monitored carefully. Field staff were prepared for their tasks by using standardized training packages that included hands-on experience In using census materials. A sample of the households interviewed by enumerators for nonresponse were reinterviewed to control for the possibility of data for fabricated persons being submitted by enumerators. Also, the estimation procedure was designed to control for biases that would result from the collection of data from households not designated for the sample.

**Processing Error**—The many phases involved in processing the census data represent potential sources for the introduction of nonsampling error. The processing of the census questionnaires includes the field editing, followup, and transmittal of completed questionnaires; the manual coding of write-in responses; and the electronic data processing. The various field, coding and computer operations undergo a number of quality control checks to insure their accurate application.

Nonresponse-Nonresponse to particular questions on the census questionnaire allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any imputation procedure using respondent data may not completely reflect this difference either at the elemental level (individual person or housing unit) or on the average. Some protection against the introduction of large biases is afforded by minimizing nonresponse. In the census, nonresponse was reduced substantially during the field operations by the various edit and followup operations aimed at obtaining a response for every question. Characteristics for the nonresponses remaining after this operation were imputed by the computer by using reported data for a person or housing unit with similar characteristics.

#### EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of data that describes the population as accurately and clearly as possible. To meet this objective, questionnaires were edited during field data collection operations for consistency, completeness, and acceptability. Questionnaires also were reviewed by census clerks for omissions, certain specific inconsistencies, and population coverage. For example, write-in entries such as "Don't know" or "NA" were considered unacceptable. For some district offices, the initial edit was automated; however, for the majority of the district offices, it was performed by clerks. As a result of this operation, a telephone or personal visit followup was made to obtain missing information. Potential coverage errors were included in the followup, as well as a sample of questionnaires with omissions and/or inconsistencies.

Subsequent to field operations, remaining incomplete or inconsistent information on the questionnaires was assigned using imputation procedures during the final automated edit of the collected data. Imputations, or computer assignments of acceptable codes in place of unacceptable entries or blanks, are needed most often when an entry for a given item is lacking or when the information reported for a person or housing unit on that item is inconsistent with other information for that same person or housing unit. As in previous censuses, the general procedure for changing unacceptable entries was to assign an entry for a person or housing unit that was consistent with entries for persons or housing units with similar characteristics. The assignment of acceptable codes in place of blanks or unacceptable entries enhances the usefulness of the data.

Another way in which corrections were made during the computer editing process was through substitution: that is, the assignment of a full set of characteristics for a person or housing unit. When there was an indication that a housing unit was occupied but the questionnaire contained no information for the people within the household or the occupants were not listed on the questionnaire, a previously accepted household was selected as a substitute, and the full set of characteristics for the substitute was duplicated. The assignment of the full set of housing characteristics occurred when there was no housing information available. If the housing unit was determined to be occupied, the housing characteristics were assigned from a previously processed occupied unit. If the housing unit was vacant, the housing characteristics were assigned from a previously processed vacant unit.

#### Table A. Unadjusted Standard Error for Estimated Totals

[Based on a 1-in-6 simple random sample]

Estimated Total <sup>1</sup>		Size of publication area <sup>2</sup>												
Figurated 1968.	500	1,000	2,500	5,000	10,000	25,000	50,000	100,000	250,000	500,000	1,000,000	5,000,000	10,000,000	25,00 <b>0,000</b>
50	16	16	16	16	16	16	16	16	16	16	16	16	16	16
100	20	21	22	22	22	22	22	22	22	22	22	22	22	22
250	25	30	35	35	35	35	35	35	35	35	35	35	35	35
500	-	35	45	45	50	50	50	50	50	50	50	50	50	50
1,000	-	-	55	65	65	70	70	70	70	70	70	70	70	70
2,500	-	-	-	80	95	110	110	110	110	110	110	110	110	110
5,000	-	-	-	-	110	140	150	150	160	160	160	160	160	160
10,000	-	-	-	-	-	170	200	210	220	220	220	220	220	220
15,000	-		-	- 1	-	170	230	250	270	270	270	270	270	270
25,000	-	-	·	-	-		250	310	340	350	350	350	350	350
75,000	-	-	-	-	-	-	-	310	510	570	590	610	610	610
100,000	-	-	-	-	-	-	•	-	550	630	670	700	700	710
250,000	-	-	-	-	-	-	-	-	-	790	970	1 090	1 100	1 100
500,000	-	•		-	-	-	-	-	-	-	1 120	1 500	1 540	1 570
1,000,000	-	-	-	-	-	-	-	-	-	-	-	2 000	2 120	2 190
5,000,000	-	-	-	-	-	-	-	-	-	-	-	-	3 540	4 470
10,000,000		-	-	-	-	-	-	-	-	-	-	-	-	5 480

<sup>1</sup>For estimated totals larger than 10,000,000, the standard error is somewhat larger than the table values. The formula given below should be used to calculate the standard error.

$$SE(\hat{Y}) = \sqrt{5}\hat{Y}(1 - \frac{\hat{Y}}{N})$$
$$N = Size \text{ of area}$$

#### Ŷ = Estimate of characteristic total

<sup>2</sup>The total count of persons in the area if the estimated total is a person characteristic, or the total count of housing units in the area if the estimated total is a housing unit characteristic.

#### Table B. Unadjusted Standard Error in Percentage Points for Estimated Percentage

[Based on a 1-in-6 simple random sample]

	Base of percentage <sup>1</sup>												
Estimated Percentage	500	750	1,000	1,500	2,500	5,000	7,500	10,000	25,000	50,000	100,000	250,000	500,000
2 or 98	1.4	1.1	1.0	0.8	0.6	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1
5 or 95	2.2	1.8	1.5	1.3	1.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1
10 or 90	3.0	2.4	2.1	1.7	1.3	0.9	0.8	0.7	0.4	0.3	0.2	0.1	0.1
15 or 85	3.6	2.9	2.5	2.1	1.6	1.1	0.9	0.8	0.5	0.4	0.3	0.2	0.1
20 or 80	4.0	3.3	2.8	2.3	1.8	1.3	1.0	0.9	0.6	0.4	0.3	0.2	0.1
25 or 75	4.3	3.5	3.1	2.5	1.9	1.4	1.1	1.0	0.6	0.4	0.3	0.2	0.1
30 or 70	4.6	3.7	3.2	2.6	2.0	1.4	1.2	1.0	0.6	0.5	0.3	0.2	0.1
35 or 65	4.8	3.9	3.4	2.8	2.1	1.5	1.2	1.1	0.7	0.5	0.3	0.2	0.3
50	5.0	4.1	3.5	2.9	2.2	1.6	1.3	1.1	0.7	0.5	0.4	0.2	0.2

<sup>1</sup>For a percentage and/ or base of percentage not shown in the table, the formula given below may be used to calculate the standard error. This table should only be used for proportions, that is, where the numerator is a subset of the denominator.

$$SE(\hat{p}) = \sqrt{\frac{5}{B}} \hat{p}(100 - \hat{p})$$

B = Base of estimated percentage

p = Estimated percentage

# APPENDIX D. Collection and Processing Procedures

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## **ENUMERATION AND RESIDENCE RULES**

In accordance with census practice dating back to the first United States census in 1790, each person was to be enumerated as an inhabitant of his or her "usual residence" in the 1990 census. Usual residence is the place where the person lives and sleeps most of the time or considers to be his or her usual residence. This place is not necessarily the same as the person's legal residence or voting residence. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics, although there might be appreciable differences for a few areas.

The implementation of this practice has resulted in the establishment of rules for certain categories of persons whose usual place of residence is not immediately apparent. Furthermore, this practice means that persons were not always counted as residents of the place where they happened to be staying on Census Day (April 1, 1990).

#### **Enumeration Rules**

Each person whose usual residence was in the United States was to be included in the census, without regard to the person's legal status or citizenship. In a departure from earlier censuses, foreign diplomatic personnel participated voluntarily in the census, regardless of their residence on or off the premises of an embassy. As in previous censuses, persons in the United States specifically excluded from the census were foreign travelers who had not established a residence.

Americans with a usual residence outside the United States were not enumerated in the 1990 census. United States military and Federal civilian employees, and their dependents overseas, are included in the population counts for States for purposes of Congressional apportionment, but are excluded from all other tabulations for States and their subdivisions. The counts of United States military and Federal civilian employees, and their dependents, were obtained from administrative records maintained by Federal departments and agencies. Other

COLLECTION AND PROCESSING PROCEDURES

Americans living overseas, such as employees of international agencies and private businesses and students, were not enumerated, nor were their counts obtained from administrative sources. On the other hand, Americans temporarily overseas were to be enumerated at their usual residence in the United States.

#### **Residence Rules**

Each person included in the census was to be counted at his or her usual residence—the place where he or she lives and sleeps most of the time or the place where the person considers to be his or her usual home. If a person had no usual residence, the person was to be counted where he or she was staying on April 1, 1990.

Persons temporarily away from their usual residence, whether in the United States or overseas, on a vacation or on a business trip, were counted at their usual residence. Persons who occupied more than one residence during the year were counted at the one they considered to be their usual residence. Persons who moved on or near Census Day were counted at the place they considered to be their usual residence.

**Persons in the Armed Forces**—Members of the Armed Forces were counted as residents of the area in which the installation was located, either on the installation or in the surrounding community. Family members of Armed Forces personnel were counted where they were living on Census Day (for example, with the Armed Forces person or at another location).

Each Navy ship not deployed to the 6th or 7th Fleet was attributed to the municipality that the Department of the Navy designated as its homeport. If the homeport included more than one municipality, ships berthed there on Census Day were assigned by the Bureau of the Census to the municipality in which the land immediately adjacent to the dock or pier was actually located. Ships attributed to the homeport, but not physically present and not deployed to the 6th or 7th Fleet, were assigned to the municipality named on the Department of the Navy's homeport list. These rules also apply to Coast Guard vessels.

Personnel assigned to each Navy and Coast Guard ship were given the opportunity to report a residence off the ship. Those who did report an off-ship residence in the communities surrounding the homeport were counted there; those who did not were counted as residents of the ship. Personnel on Navy ships deployed to the 6th or 7th Fleet on Census Day were considered to be part of the overseas population.

**Persons on Maritime Ships**—Persons aboard maritime ships who reported an off-ship residence were counted at that residence. Those who did not were counted as residents of the ship, and were attributed as follows:

- 1. The port where the ship was docked on Census Day, if that port was in the United States or its territories.
- 2. The port of departure if the ship was at sea, provided the port was in the United States or its territories.
- 3. The port of destination in the United States or its territories, if the port of departure of a ship at sea was a foreign port.
- The overseas population if the ship was docked at a foreign port or at sea between foreign ports. (These persons were not included in the overseas population for apportionment purposes.)

**Persons Away at School**—College students were counted as residents of the area in which they were living while attending college, as they have been since the 1950 census. Children in boarding schools below the college level were counted at their parental home.

**Persons in Institutions**—Persons under formally authorized, supervised care or custody, such as in Federal or State prisons; local jails; Federal detention centers; juvenile institutions; nursing, convalescent, and rest homes for the aged and dependent; or homes, schools, hospitals, or wards for the physically handicapped, mentally retarded, or mentally ill, were counted at these places.

**Persons Away From Their Usual Residence on Census Day**—Migrant agricultural workers who did not report a usual residence elsewhere were counted as residents of the place where they were on Census Day. Persons in worker camps who did not report a usual residence elsewhere were counted as residents of the camp where they were on Census Day.

In some parts of the country, natural disasters displaced significant numbers of households from their usual place of residence. If these persons reported a destroyed or damaged residence as their usual residence, they were counted at that location.

Persons away from their usual residence were counted by means of interviews with other members of their families, resident managers, or neighbors.

#### DATA COLLECTION PROCEDURES

The 1990 census was conducted primarily through self-enumeration. The questionnaire packet included general information about the 1990 census and an instruction guide explaining how to complete the questionnaire. Spanish-language questionnaires and instruction guides were available on request. Instruction guides also were available in 32 other languages.

#### **Enumeration of Housing Units**

Each housing unit in the country received one of two versions of the census questionnaire:

- 1. A short-form questionnaire that contained a limited number of basic population and housing questions; these questions were asked of all persons and housing units and are often referred to as 100percent questions.
- 2. A long-form questionnaire that contained the 100percent items and a number of additional questions; a sampling procedure was used to determine those housing units that were to receive the long-form questionnaire.

Three sampling rates were employed. For slightly more than one-half of the country, one in every six housing units (about 17 percent) received the long-form or sample questionnaire. In functioning local governmental units (counties and incorporated places, and in some parts of the country, towns and townships) estimated to have fewer than 2,500 inhabitants, every other housing unit (50 percent) received the sample questionnaire in order to enhance the reliability of the sample data for these small areas. For census tracts and block numbering areas having more than 2,000 housing units in the Census Bureau's address files, one in every eight housing units (about 13 percent) received a sample questionnaire, providing reliable statistics for these areas while permitting the Census Bureau to stay within a limit of 17.7 million sample questionnaires, or a one-in-six sample, nationwide.

The mail-out/mail-back procedure was used mainly in cities, suburban areas, towns, and rural areas where mailing addresses consisted of a house number and street name. In these areas, the Census Bureau developed mailing lists that included about 88.4 million addresses. The questionnaires were delivered through the mail and respondents were to return them by mail. Census questionnaires were delivered 1 week before Census Day (April 1, 1990)

The update/leave/mail-back method was used mainly in densely populated rural areas where it was difficult to develop mailing lists because mailing addresses did *not* use house number and street name. The Census Bureau compiled lists of housing units in advance of the census. Enumerators delivered the questionnaires, asked respondents to return them by mail, and added housing units not on the mailing lists. This method was used mainly in the South and Midwest, and also included some highrise, low-income urban areas. A variation of this method

was used in urban areas having large numbers of boarded-up buildings. About 11 million housing units were enumerated using this method.

The list/ enumerate method (formerly called conventional or door-to-door enumeration) was used mainly in very remote and sparsely-settled areas. The United States Postal Service delivered unaddressed short-form questionnaires before Census Day. Starting a week before Census Day, enumerators canvassed these areas, checked that all housing units received a questionnaire, created a list of all housing units, completed long-form questionnaires, and picked up the completed short-form questionnaires. This method was used mainly in the West and Northeast to enumerate an estimated 6.5 million housing units.

#### Followup

**Nonresponse Followup**—In areas where respondents were to mail back their questionnaires, an enumerator visited each address from which a questionnaire was not received.

**Coverage and Edit-Failure Followup**—In the mallback areas, some households returned a questionnaire that did not meet specific quality standards because of incomplete or inconsistent information, or the respondent had indicated difficulty in deciding who was to be listed on the questionnaire. These households were contacted by telephone or by personal visit to obtain the missing information or to clarify who was to be enumerated in the household. In areas where an enumerator picked up the questionnaires, the enumerator checked the respondent-filled questionnaire for completeness and consistency.

#### **Special Enumeration Procedures**

Special procedures and questionnaires were used for the enumeration of persons in group quarters, such as college dormitories, nursing homes, prisons, military barracks, and ships. The questionnaires (Individual Census Reports, Military Census Reports, and Shipboard Census Reports) included the 100-percent population questions but did not include any housing questions. In all group quarters, all persons were asked the basic population questions; in most group quarters, additional questions were asked of a sample (one-in-six) of persons.

#### Shelter and Street Night (S-Night)

The Census Bureau collected data for various components of the homeless population at different stages in the 1990 census. "Shelter and Street Night" (S-Night) was a special census operation to count the population in four types of locations where homeless people are

COLLECTION AND PROCESSING PROCEDURES

found. On the evening of March 20, 1990, and during the early morning hours of March 21, 1990, enumerators counted persons in pre-identified locations:

- 1. Emergency shelters for the homeless population (public and private; permanent and temporary).
- 2. Shelters with temporary lodging for runaway youths.
- 3. Shelters for abused women and their children.
- 4. Open locations in streets or other places not intended for habitation.

Emergency shelters include all hotels and motels costing \$12 or less (excluding taxes) per night regardless of whether persons living there considered themselves to be homeless, hotels and motels (regardless of cost) used entirely to shelter homeless persons, and pre-identified rooms in hotels and motels used for homeless persons and families. Enumeration in shelters usually occurred from 6 p.m. to midnight; street enumeration, from 2 a.m. to 4 a.m.; abandoned and boarded-up buildings from 4 a.m. to 8 a.m.; and shelters for abused women, from 6 p.m. on March 20 to noon on March 21.

Other components, which some consider as part of the homeless population, were enumerated as part of regular census operations. These include persons doubled up with other families, as well as persons with no other usual home living in transient sites, such as commercial campgrounds, maternity homes for unwed mothers, and drug/alcohol abuse detoxification centers. In institutions, such as local jails and mental hospitals, the Census Bureau does not know who has a usual home elsewhere; therefore, even though some are literally homeless, these persons cannot be identified separately as a component of the homeless population.

There is no generally agreed-upon definition of "the homeless," and there are limitations in the census count that prevent obtaining a total count of the homeless population under any definition. As such, the Census Bureau does not have a definition and will not provide a total count of "the homeless." Rather, the Census Bureau will provide counts and characteristics of persons found at the time of the census in *selected* types of living arrangements. These selected components can be used as building blocks to construct a count of homeless persons appropriate to particular purposes as long as the data limitations are taken into account.

In preparation for "Shelter-and-Street-Night" enumeration, the regional census centers (RCC's) mailed a certified letter (Form D-33 (L)) to the highest elected official of each active functioning government of the United States (more than 39,000) requesting them to identify:

1. All shelters with sleeping facilities (permanent and temporary, such as church basements, armories, public buildings, and so forth, that could be open on March 20).

- 2. Hotels and motels used to house homeless persons and families.
- 3. A list of outdoor locations where homeless persons tend to be at night.
- Places such as bus or train stations, subway stations, airports, hospital emergency rooms, and so forth, where homeless persons seek shelter at night.
- The specific addresses of abandoned or boarded-up buildings where homeless persons were thought to stay at night.

The letter from the RCC's to the governmental units emphasized the importance of listing night-time congregating sites. The list of shelters was expanded using information from administrative records and informed local sources. The street sites were limited to the list provided by the jurisdictions. All governmental units were eligible for "Shelter and Street Night." For cities with 50,000 or more persons, the Census Bureau took additional steps to update the list of shelter and street locations if the local jurisdiction did not respond to the certified letter. Smaller cities and rural areas participated if the local jurisdiction provided the Census Bureau a list of shelters or open public places to visit or if shelters were identified through our inventory development, local knowledge update, or during the Special Place Prelist operation.

The Census Bureau encouraged persons familiar with homeless persons and the homeless themselves to apply as enumerators. This recruiting effort was particularly successful in larger cities.

For shelters, both long- and short-form Individual Census Reports (ICR's) were distributed. For street enumeration, only short-form ICR's were used. Persons in shelters and at street locations were asked the basic population questions. Additional questions about social and economic characteristics were asked of a sample of persons in shelters only.

Enumerators were instructed *not* to ask who was homeless; rather, they were told to count all persons (including children) staying overnight at the shelters, and everyone they saw on the street except the police, other persons in uniform, and persons engaged in employment or obvious money-making activities other than begging and panhandling.

At both shelter and street sites, persons found sleeping were not awakened to answer questions. Rather, the enumerator answered the sex and race questions by observation and estimated the person's age to the best of his or her ability. In shelters, administrative records and information from the shelter operator were used, when available, for persons who were already asleep.

Less than 1 percent of shelters refused to participate in the census count at first. By the end of the census period, most of those eventually cooperated and the number of refusals had been reduced to a few. For the final refusals, head counts and population characteristics were obtained by enumerators standing outside such shelters and counting people as they left in the morning.

The "street" count was restricted to persons who were visible when the enumerator came to the open. public locations that had been identified by local jurisdictions. Homeless persons who were well hidden, moving about, or in locations other than those identified by the local governments were likely missed. The number missed will never be known and there is no basis to make an estimate of the number missed from census data. The count of persons in open, public places was affected by many factors, including the extra efforts made to encourage people to go to shelters for "Shelter and Street Night," the weather (which was unusually cold in many parts of the country), the presence of the media, and distrust of the census. Expectations of the number of homeless persons on the street cannot be based on the number seen during the day because the night-time situation is normally very different as more homeless persons are in shelters or very well hidden.

For both "Shelter-and-Street-Night" locations, the Census Bureau assumed that the usual home of those enumerated was in the block where they were found (shelter or street).

The "Shelter-and-Street-Night" operation replaced and expanded the 1980 Mission Night (M-Night) and Casual Count operations. These two operations were aimed at counting the population who reported having no usual residence. M-Night was conducted a week after Census Day, in April 1980. Enumerators visited hotels, motels, and similar places costing \$4 or less each night; missions, flophouses, local jails and similar places at which the average length of stay was 30 days or less; and nonshelter locations, such as bus depots, train stations, and all night movie theaters. Questions were asked of everyone, regardless of age. Enumerators conducted M-Night up to midnight on April 8, 1980, and returned the next morning to collect any forms completed after midnight.

The Casual Count operation was conducted in May 1980 at additional nonshelter locations, such as street corners, pool halls, welfare and employment offices. This operation lasted for approximately 2 weeks. Casual Count was conducted during the day only in selected large central cities. Only persons who appeared to be at least 15 years of age were asked if they had been previously enumerated. Casual Count was actually a coverage-improve-

ment operation. It was not specifically an operation to count homeless persons living in the streets. Persons were excluded if they said they had a usual home outside the city because it was not cost effective to check through individual questionnaires in another city to try to find the person.

COLLECTION AND PROCESSING PROCEDURES

#### **PROCESSING PROCEDURES**

Respondents returned many census questionnaires by mail to 1 of over 344 census district offices or to one of six processing offices. In these offices, the questionnaires were "checked in" and edited for completeness and consistency of the responses. After this initial processing had been performed, all questionnaires were sent to the processing offices.

In the processing offices, the household questionnaires were microfilmed and processed by the Film Optical Sensing Device for Input to Computers (FOS-DIC). For most items on the questionnaire, the information supplied by the respondent was indicated by filling circles in predesignated positions. FOSDIC electronically "read" these filled circles from the microfilm copy of the questionnaire and transferred the information to computer tape. The computer tape did not include individual names, addresses, or handwritten responses.

The data processing was performed in several stages. All questionnaires were microfilmed, "read" by FOSDIC, and transferred to computer disk. Selected written entries in the race question on both the short and long forms were keyed from the microfilm and coded using the data base developed from the 1980 census and subsequent content and operational tests. Keying of other written entries on the long forms occurred in the seven processing offices.

The information (for example, income dollar amounts or homeowner shelter costs) on these keyed files was merged with the FOSDIC data or processed further through one of three automated coding programs. The codes for industry, occupation, place-of-birth, migration, place-of-work, ancestry, language, relationship, race, and Hispanic origin were merged with the FOSDIC data for editing, weighting, and tabulating operations at Census Bureau headquarters. All responses to the questions on Individual Census Reports (ICR's), Military Census Reports (MCR's), and Shipboard Census Reports (SCR's) were keyed, not processed by microfilm or FOSDIC. 

# APPENDIX E. Facsimiles of Respondent Instructions and Questionnaire Pages

# Your Guide for the

# 1990 U.S. Census Form

This guide gives helpful information on filling out your census form. If you need more help, call the local U.S. census office. **The telephone number is on the cover of the questionnaire.** After you have filled out your form, please return it in the **envelope** we have provided.

On the inside	Page
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Instructions for the census questions	3-11
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CENSUS '90	U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS
	D4

## How to Fill Out Your Census Form

Please use a black lead pencil only. Black lead pencil is better to use than balipoint or other pens. Most questions ask you to fill in the circle, or to print the information. See **Example** below.

Make sure you print answers for everyone in this household. If someone in the household, such as a roomer or boarder, does not want to give you all the information for the form, print at least the person's name and answer questions 2 and 3. A census taker will call to get the other information directly from the person.

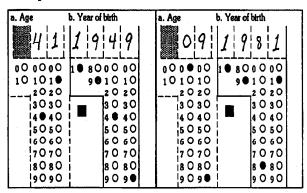
There may be a question you cannot answer exactly. For example, you might not know the age of an elderly person or the price for which your house would sell. Ask someone else in your household; if no one knows, give your best estimate.

Instructions for individual questions begin on page 3 of this guide. They will help you to understand the questions and answer them correctly.

If you have a question about filling out the census form or need assistance, call the local U.S. census office. The telephone number is given on the cover of the questionnaire.

If you do not mail back your census form, a census taker will be sent out to assist you. But it saves time and your taxpayer dollars if you fill out the form yourself and mail it back.

#### Example



## **Your Answers Are Confidential**

The law authorizing the census (Title 13, U.S. Code) also provides that your answers are confidential. No one except census workers may see your completed form and they can be fined and/or imprisoned for any disclosure of your answers. Only after 72 years can your individual census form become available to other government agencies (whether federal, state, county, or local). Until then, no other person or business can see your individual report.

The same law that protects the confidentiality of your answers requires that you provide the information asked in this census to the best of your knowledge.

Information collected from the decennial census is used for a variety of statistical purposes. Census information is used to find out where funding is most needed for schools, health centers, highways, and other services. Census results are used by members of public and private groups--including community organizations--and by businesses and industries, as well as by agencies at all levels of government.

## Instructions for Questions 1a through 7

1a. List everyone who lives at this address in question 1a. If you are not sure if you should list a person, see the rules on page 1 of the census form. If you are still not sure, answer as best you can and fill in "Yes" for question H1a or H1b, as appropriate.

If there are more than seven people in your household, please list all the persons in question 1a, complete the form for seven people, and mail it back in the enclosed envelope. A census taker will call to obtain the information for the additional persons.

- b. If everyone listed in question 1a usually lives at another address(es), print the address(es) in 1b.
- 2. Fill one circle to show how each person is related to the person in column 1. If Other relative of the person in column 1, print the exact relationship such as son-in-law, daughter-in-law, grandparent, nephew, niece, mother-in-law, father-in-law, cousin, and so on.

If the Stepson/stepdaughter of the person in column 1 also has been legally adopted by the person in column 1, mark Stepson/stepdaughter but do not mark Natural-born or adopted son/daughter. In other words, Stepson/stepdaughter takes precedence over Adopted son/daughter.

**4.** Fill ONE circle for the race each person considers himself/herself to be.

If you fill the **Indian (Amer.)** circle, print the name of the tribe or tribes in which the person is enrolled. If the person is not enrolled in a tribe, print the name of the principal tribe(s).

If you fill the **Other API** circle [under **Asian or Pacific Islander (API)**], **only** print the name of the group to which the person belongs. For example, the **Other API** category includes persons who identify as Burmese, Fijian, Hmong, Indonesian, Laotian, Bangladeshi, Pakistani, Tongan, Thai, Cambodian, Sti Lankan, and so on.

If you fill the **Other race** circle, be sure to print the name of the race. If the person considers himself/herself to be **White**, **Black or Negro**, **Eskimo or Alent**, fill one circle only. Please do not print the race in the boxes.

The **Black or Negro** category also includes persons who identify as African-American, Afro-American, Haitian, Jamaican, West Indian, Nigerian, and so on.

All persons, regardless of citizenship status, should answer this question.

- 5. Print age at last birthday in the space provided (print "00" for babies less than 1 year old). Fill in the matching circle below each box. Also, print year of birth in the space provided. Then fill in the matching circle below each box. For an illustration of how to complete question 5, see the Example on page 2 of this guide.
- 6. If the person's only marriage was annulled, mark Never married
- 7. A person is of Spanish/Hispanic origin if the person's origin (ancestry) is Mexican, Mexican-Am., Chicano, Puerto Rican, Cuban, Argentinean, Colombian, Costa Rican, Dominican, Ecuadoran, Guatemalan, Honduran, Nicaraguan, Peruvian, Salvadoran, from other Spanish-speaking countries of the Catibbean or Central or South America, or from Spain.
  - If you fill the Yes, other Spanish / Hispanic circle, print one group.

A person who is not of Spanish/Hispanic origin should answer this question by filling the **No (not Spanish/Hispanic)** circle. Note that the term **"Mexican-Am."** refers only to persons of Mexican origin or ancestry.

All persons, regardless of citizenship status, should answer this question.

## Instructions for Question H1a through H1b

- H1a. Refer to the list of persons you entered in question 1a on page 1. If you left anyone out of your list because you were not sure if the person(s) should be listed, answer question H1a as Yes. Then enter the name(s) and reason(s) why you did not list the person(s) on the lines provided. Otherwise, answer question H1a as No.
  - b. If you included anyone on your list even though you were not sure that you should list the person(s), answer question H1b as Yes. Then enter the name(s) and reason(s) why you listed the person(s) on the lines provided. Otherwise, answer question H1b as No.

## Instructions for Questions H2 through H7b



H2. Fill only one circle.

Count all occupied and vacant apartments in the house or building. Do not count stores or office space.

Detached means there is open space on all sides, or the house is joined only to a shed or garage. Attached means that the house is joined to another house or building by at least one wall that goes from ground to roof. An example of A one-family house attached to one or more houses is a house in a row of houses attached to one another.

A mobile home or trailer that has had one or more rooms added or built onto it should be counted as a *one-family detached house*; a porch or shed is not considered a room.

H3. Count only whole rooms in your house, apartment, or mobile home used for living purposes, such as living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, family rooms, etc. Do not count bathrooms, kitchenettes, strip or pullman kitchens, utility rooms, foyers, halls, half-rooms, porches, balconies, unfinished attics, unfinished basements, or other unfinished space used for storage.

H4. Housing is owned if the owner or co-owner lives in it. Mark Owned by you or someone in this household with a mortgage or loan if the house, apartment, or mobile home is mortgaged or there is a contract to purchase. Mark Owned by you or someone in this household free and clear (without a mortgage) if there is no mortgage or other debt. If the house, apartment, or mobile home is owned but the land is rented, mark this question to show the status of the house, apartment, or mobile home.

Mark Rented for cash rent if any money rent is paid, even if the rent is paid by persons who are not members of your household, or by a federal, state, or local government agency.

Mark Occupied without payment of cash rent if the unit is not owned or being bought by the occupants and if money rent is not paid or contracted. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. A house or apartment may be provided as part of wages or salary. Examples are: caretaker's or janitor's house or apartment; parsonages; tenant farmer or sharecropper houses for which the occupants do not pay cash rent; or military housing.

- H5a. Answer H5a and H5b if you live in a one-family house or a mobile home; include only land that you own or rent.
  - b. A business is easily recognized from the outside; for example, a grocery store or barber shop. A medical office is a doctor's or dentist's office regularly visited by patients.
- H6. If this is a house, include the value of the house, the land it is on, and any other structures on the same property. If the house is owned but the land is rented, estimate the combined value of the house and the land. If this is a condominium unit, estimate the value for your house or apartment including your share of the common elements. If this is a mobile home, include the value of the mobile home and the value of the land. If you rent the land, estimate the value of the rented land and add it to the value of the mobile home.

H7a. Report the rent agreed to or contracted for, even if the rent for your house, apartment, or mobile home is unpaid or paid by someone else.

If rent is paid: Multiply rent by:	If rent is paid: Divide rent by:
By the day 30	4 times a year 3
By the week 4	2 times a year 6
Every other week 2	Once a year

**b.** Answer **Yes** if meals are included in the monthly rent payment, or you must contract for meals or a meal plan in order to live in this building.

## Instructions for Questions H8 through H19b

- H8. The person listed in column 1 refers to the person listed in the first column on page 2. This person should be the household member (or one of the members) in whose name the house, apartment, or mobile home is owned, being bought, or rented. If there is no such person, any adult household member can be the person in column 1. Mark when this person last moved into this house, apartment, or mobile home.
- H9. Include all rooms intended to be used as bedrooms in this house, apartment, or mobile home, even if they are currently being used for other purposes.
- H10. Mark Yes, have all three facilities if you have all the facilities mentioned; all facilities must be in your house, apartment, or mobile home, but not necessarily in the same room. Consider that you have hot water even if you have it only part of the time. Mark No if any of the three facilities is not present.
- H11. The kitchen sink, stove, and refrigerator must be located in the building but do not have to be in the same room. Portable cooking equipment is not considered as a range or cookstove.
- H12. Answer Yes only if the telephone is located in your house, apartment, or mobile home.
- H13. Count company cars (including police cars and taxicabs) and company trucks of one-ton capacity or less that are regularly kept at home and used by household members for nonbusiness purposes. Do not count cars or trucks permanently out of working order.
- H14. Fill the circle for the fuel used most to heat your house, apartment, or mobile home. In buildings containing more than one apartment you may obtain this information from the owner, manager, or janitor.
  Solar energy is provided by a system that collects, stores, and distributes heat from the sun. Other fuel includes any fuel not separately listed: for example, purchased steam, fuel briqueties, waste material, etc.
- H15. If a well provides water for five or more houses, apartments, or mobile homes, mark A public system. If a well provides water for four or fewer houses, apartments, or mobile homes, fill one of the circles for Individual well.

**Drilled wells**, or small diameter wells, are usually less than 1½ feet in diameter. **Dug wells** are generally hand dug and are larger than 1½ feet wide.

- H16. A public sewer may be operated by a government body or private organization. A septic tank or cesspool is an underground tank or pit used for disposal of sewage.
- H17. Fill the circle corresponding to the period in which the original construction was completed, not the time of any later remodeling, additions, or conversions. In buildings containing more than one apartment, the owner, manager, or janitor may be of help in determining when the building was built.

If you live in a houseboat or a trailer or mobile home, fill the circle corresponding to the model year in which it was manufactured.

If you do not know the period when the building was first constructed, fill the circle for **Don't know**.

- H18. A condominium is a type of ownership in which the apartments, houses, or mobile homes in a building or development are individually owned, but the common areas, such as lobbles, halls, etc., are jointly owned. Cooperative occupants should mark No.
- H19a. Answer H19a and H19b if you live in a one-family house or mobile home.
  - b. This property is the acreage on which the house is located; it includes adjoining land you rent for your use. Report sales made in 1989 from this property by you or previous occupants.



## Instructions for Questions H20 through H26

H20. If your house or apartment is rented, enter the costs for utilities and fuels only if you pay for them in addition to the rent entered in H7a.

If you live in a condominium, enter the costs for utilities and fuels **only if you pay for them in addition to your condominium fee**.

If your fuel and utility costs are already included in your rent or condominium fee, fill the **included in rent or in condominium fee** circle. Do not enter any dollar amounts.

The amounts to be reported should be the total amount for the past 12 months. Estimate as closely as possible when exact costs are not known. If you have lived in this house or apartment less than 1 year, estimate the yearly cost.

Report amounts even if your bills are unpaid or paid by someone else. If the bills include utilities or fuel used also by another apartment or a business establishment, estimate the amounts for your own house or apartment. If gas and electricity are billed together, enter the combined amount on the electricity line and bracket [] the two utilities.

- H21. Report taxes for all taxing jurisdictions (city or town, county, state, school district, etc.) even if they are included in your mortgage payment, not yet paid or paid by someone else, or are delinquent. Do not include taxes past due from previous years.
- H22. When premiums are paid on other than a yearly basis, convert to a yearly basis. Enter the yearly amount even if no payment was made during the past 12 months.
- H23a. The word mortgage is used as a general term to indicate all types of loans that are secured by real estate.
  - **b**. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a to change it to a monthly amount.

Include payments on first mortgages and contracts to purchase only. Payments for second or junior mortgages and home equity loans should be reported in H24b.

- H24a. A second or junior mortgage or home equity loan is secured by real estate.
  - b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see instructions for H7a and change it to a monthly amount. Include payments on all second or junior morigages or home equity loans.
- H25. A condominium fee is normally assessed by the condominium owners' association for the purpose of improving and maintaining the common areas. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a on how to change it to a monthly amount.

H26. Report amount even if your bills are unpaid or paid by someone else. Include payments for personal property taxes, land or site rent, registration fees and license fees. Do not include real estate taxes already reported in H21. The amount to be reported should be the total amount for an entire 12month billing period even if made in two or more installments. Estimate as closely as possible when exact costs are not known.

## Instructions for Question 8

8. For persons born in the United States: Print the name of the State in which this person was born. If the person was born in Washington, D.C., print District of Columbia. If the person was born in a U.S. territory or commonwealth, print Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Marianas.

For persons born outside the United States:

Print the name of the foreign country or area where the person was born. Use current boundaries, not boundaries at the time of the person's birth. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; England, Scotland, or Wales (not Great Britan or United Kingdom). Specify the particular country or island in the Carlobean (not, for example, West Indies).

## Instructions for Questions 9 through 13

- 9. A person should fill the Yes, U.S. citizen by naturalization circle only if he/she has completed the naturalization process and is now a United States citizen. If the person was born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas, he/she should fill the Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas circle. If the person was born outside the United States (or at sea) and has at least one American parent, he/she should fill the Yes, born abroad of American parent or parents circle.
- **10.** If the person has entered the United States (that is, the 50 states and the District of Columbia) more than once, fill the circle for the latest year he/she came to stay.
- Do not include enrollment in a trade or business school, company training, or tutoring unless the course would be accepted for credit at a regular elementary school, high school, or college.

A public school is any school or college that is controlled and supported primarily by a local, county, State, or Federal Government. Schools are private if supported and controlled primarily by religious organizations or other private groups.

12. Mark the category for the highest grade or level of schooling the person has successfully completed or the highest degree the person received. If the person is enrolled in school, mark the category containing the highest grade completed (the grade previous to the grade in which enrolled). Schooling completed in foreign or ungraded schools should be reported as the equivalent level of schooling in the regular American school system.

Persons who completed high school by passing an equivalency test, such as the General Educational Development (GED) examination, and did not attend college, should fill the circle for high school graduate.

Do not include vocational certificates or diplomas from vocational, trade, or business schools or colleges unless they were college level associate degrees or higher.

Some examples of professional school degrees include medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology. Do not include barber school, cosmetology, or other training for a specific trade.

Do not include honorary degrees awarded by colleges and universities to individuals for their accomplishments. Include only "earned" degrees.

13. Print the ancestry group. Ancestry refers to the person's ethnic origin or descent, "roots," or heritage. Ancestry also may refer to the country of birth of the person or the person's parents or ancestors before their arrival in the United States. All persons, regardless of citizenship status, should answer this question.

Persons who have more than one origin and cannot identify with a single ancestry group may report two ancestry groups (for example, German-Irish).

Be specific. For example, print whether West Indian, Asian Indian, or American Indian. West Indian includes persons whose ancestors came from Jamaica, Trinidad, Haiti, etc. Distinguish Cape Verdean from Portuguese; French Canadian from Canadian; and Dominican Republic from Dominica Island.

A religious group should not be reported as a person's ancestry.

## Instructions for Questions 14a through 19



- 14a. Mark Yes if this person lived in this same house or apartment on April 1, 1985, even if he/she moved away and came back since then. Mark No if this person lived in the same building but in a different apartment (or in the same mobile home or trailer but on a different lot or trailer site).
  - b. If this person lived in a different house or apartment on April 1, 1985, give the location of this person's usual home at that time.

Part (1)

If the person lived in the United States on April 1, 1985, print the name of the State (or District of Columbia) where he or she lived. Continue with parts (2) through (4).

If the person lived in a U.S. territory or commonwealth, print the name of the territory or commonwealth, such as Puerto Rico, U.S. Virgin Islands, Guarn, American Samoa, or Northern Marianas. Then go to question 15a.

If the person lived outside the United States, print the name of the foreign country or area where he or she lived. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; England, Scotland or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies). Then go to question 15a.

#### Part (2)

If the person lived in Louisiana, print the parish name. If the person lived in Alaska, print the borough name. If the person lived in New York city and the county name is not known, print the borough name. If the person lived in an independent city (not in any county) or in Washington, D.C., leave blank and enter the city name in part (3).

#### Part (3)

If the person lived in New England, print the name of the town rather than the village name, unless the name of the town is not known. If the person lived outside the limits or boundaries of any city or town, print the name of the post office or the nearest town and mark **No. lived outside the city/town limits** in part (4).

#### Part (4)

Mark Yes if the location is now inside the city/town limits even if it was not inside the limits on April 1, 1985; that is, if the area was annexed by the city/town since that time.

**15.** Mark Yes if the person sometimes or always speaks a language other than English at home.

Do not mark Yes for a language spoken only at school or if speaking is limited to a few expressions or slang.

Print the name of the language spoken at home. If this person speaks more than one non-English language and cannot determine which is spoken more often, report the first language the person learned to speak.

- 17a. For a person with service in the National Guard or a military reserve unit, fill one of the two Yes, active duty circles if and only if the person has ever been called up for active duty other than training; otherwise, mark Yes, service in Reserves or National Guard only. For a person whose only service was as a civilian employee or volunteer for the Red Cross, USO, Public Health Service, or War or Defense Department, mark No. Count World War II Merchant Marine Seaman service as active duty; do not count other Merchant Marine service as active duty.
- 18. Mark Yes to part (a) if a health condition substantially limits this person in his or her choice of occupation or if the condition limits the amount of work that can be accomplished in a given period of time. Mark Yes to part (b) if the health condition prevents this person from holding any significant employment.
- 19. Consider a person to have difficulty with these activities if any of the following situations apply: (1) it takes extra time or extra effort for the person to perform one or more of the activities, (2) there are times when the person cannot perform one or more of the activities, or (3) the person is completely unable to perform one or more of the activities.

## Instructions for Questions 20 through 23b

20. Count all children born alive, including any who have died (even shortly after birth) or who no longer live with you. Do not include miscarriages or stillborn children or any adopted, foster, or stepchildren.

#### 21a. Count as work - Mark Yes:

- Work for someone else for wages, salary, piece rate, commission, tips, or payments "in kind" (for example, food, lodging received as payment for work performed).
- Work in own business, professional practice, or farm.
- Any work in a family business or farm, paid or not.
- Any part-time work including babysitting, paper routes, etc.
- Active duty in Armed Forces.

Do not count as work - Mark No:

- Housework or yard work at home.
- Unpaid volunteer work.
- School work.
- Work done as a resident of an institution.
- 22a. Include the street type (for example, St., Road, Ave.) and the street direction (if a direction such as "North" is part of the address). For example, print 1239 N. Main St. or 1239 Main St., N.W. not just 1239 Main.

If the only known address is a post office box, give a description of the work location. For example, print the name of the building or shopping center where the person works, the nearest intersection, the nearest street where the workplace is located, etc. DO NOT GIVE A POST OFFICE BOX NUMBER.

If the person worked at a military installation or military base that has no street address, report the name of the military installation or base.

If the person worked at several locations, but reported to the same location each day to begin work, print the address of the location where he or she reported. If the person did not report to the same location each day to begin work, print the address of the location where he or she worked most last week.

If the person's employer operates in more than one location (such as a grocery store chain or public school system), print the exact address of the location or branch where the person worked. If the exact address of a school is not known, print the name of the school.

If the person worked on a college or university campus and the exact address of the workplace is not known, print the name of the building where he or she worked.

d. If the person worked in New York city and the county is not known, print the name of the borough where the person worked.

If the person worked in Louisiana, print the name of the parish where the person worked.

If the person worked in Alaska, print the name of the borough where the person worked.

- e. If the person worked in a foreign country or Puerto Rico, Guam, etc., print the name of the country in 22e and leave the other parts of question 22 blank.
- 23a. If the person usually used more than one type of transportation to get to work (for example, rode the bus and transferred to the subway), fill the circle of the one method of transportation that he/she used for most of the distance during the trip.
  - b. If the person was driven to work by someone who then drove back home or to a nonwork destination, fill the circle for Drove alone.

DO NOT include persons who rode to school or some other nonwork destination in the count of persons who rode in the vehicle.



## Instructions for Questions 24a through 30

24a. Give the time of day the person usually left home to go to work. DO NOT give the time that the person usually began his or her work.

If the person usually left home to go to work sometime between 12:00 o'clock midnight and 12:00 o'clock noon, fill the a.m. circle. If the person usually left home to go to work sometime between 12:00

o'clock noon and 12:00 o'clock midnight, fill the p.m. circle.

- **b.** Travel time is from door to door. Include time taken waiting for public transportation or picking up passengers in a carpool.
- 25. If the person works only during certain seasons or on a day-by-day basis when work is available, mark No.
- **26a.** Mark **Yes** if the person tried to get a job or to start a business or professional practice at any time in the last 4 weeks; for example, registered at an employment office, went to a job interview, placed or answered ads, or did anything toward starting a business or professional practice.
  - b. Mark No, already has a job if the person was on layoff or was expecting to report to a job within 30 days.

Mark No, temporarily ill if the person expects to be able to work within 30 days.

Mark No, other reasons if the person could not have taken a job because he or she was going to school, taking care of children, etc.

- 27. Look at the instructions for question 21a to see what to count as work. Mark Never worked if the person: (1) never worked at any kind of job or business, either full or part time, (2) never did any work, with or without pay, in a family business or farm, and (3) never served in the Armed Forces.
- 28a. If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that had no company name, print the name of the individual worked for. If the person worked in his/her own business, print "self-employed."
  - b. Print two or more words to tell what the business, industry, or individual employer named in 28a did. If there is more than one activity, describe only the major activity at the place where the person worked. Enter what is made, what is sold, or what service is given.

Some examples of what to enter:

#### Enter a description like

the following -	Do not enter -
Metal furniture manufacturing	Furniture company
Retail grocery store	Grocery store
Petroleum refining	Oil company
Cattle ranch	Ranch

29. Print two or more words to describe the kind of work the person did. If the person was a trainee, apprentice, or helper, include that in the description. Some examples of what to enter:

#### Enter a description like the follow

the following	Do not enter -
Production clerk	Clerk
Carpenter's helper	Helper
Auto engine mechanic	Mechanic
Registered nurse	Nurse

30. Mark Employee of a PRIVATE NOT-FOR-PROFIT ... organization if the person worked for a cooperative, credit union, mutual insurance company, or similar organization.

Employees of foreign governments, the United Nations, and other international organizations should mark PRIVATE NOT-FOR-PROFIT ... organization

For persons who worked at a public school, college or university, mark the appropriate government category; for example, mark State GOVERNMENT employee for a state university, or mark Local GOVERNMENT employee for a county-run community college or a city-run public school.

## Instructions for **Questions 31a through 32h**

- **31a.** Look at the instructions for question 21a to see what to count as work.
  - **b.** Count every week in which the person did any work at all, even for an hour.
- 32. Fill the Yes or No circle for each part and enter the amount received during 1989.

If income from any source was received jointly by household members, report, if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and fill the No circle for the other person.

- a. Include wages and salaries from all jobs before deductions. Be sure to include any tips, commissions, or bonuses. Owners of incorporated businesses should enter their salary here. Military personnel should include base pay plus cash housing and/or subsistence allowance, flight pay, uniform allotments, reenlistment bonuses, etc.
- **b.** Include NONFARM profit (or loss) from self-employment in sole proprietorships and partnerships. Exclude profit (or loss) of incorporated businesses vou own.
- C. Include FARM profit (or loss) from self-employment in sole proprietorships and partnerships. Exclude profit (or loss) of incorporated farm businesses you own. Also exclude amounts from land rented for cash but include amounts from land rented for shares.
- d. Include interest received or credited to checking and savings accounts, money market funds, certificates of deposit (CDs), IRAs, KEOGHs, and government bonds.

Include dividends received, credited, or reinvested from ownership of stocks or mutual funds.

Include profit (or loss) from royalties and the rental of land, buildings or real estate, or from roomers or boarders. Income received by self-employed persons whose primary source of income is from renting property or from royalities should be included in questions 32b or 32c above. Include regular payments from an estate or trust fund.



- e. Include Social Security (and/or Railroad Retirement) payments to retired persons, to dependents of deceased insured workers, and to disabled workers before Medicare deductions.
- f. Include Supplemental Security Income received by aged, blind, or disabled persons, Aid to Families with Dependent Children, or income from other government programs such as general or emergency assistance. Do not include assistance received from private charities. Exclude assistance to pay for heating (cooling) costs.
- g. Include retirement, disability, or survivor benefits received from companies and unions; Federal, State, and local governments, and the U.S. military. Include regular income from annuities and IRA or KEOGH retirement plans.
- h. Include Veterans' (VA) disability compensation and educational assistance payments (VEAP), unemployment compensation, child support or alimony, and all other regular payments such as Armed Forces transfer payments; assistance from private charities; regular contributions from persons not living in the household, etc.

Do not include the following as income in any item:

- Refunds or rebates of any kind
- Withdrawals from savings of any kind
- Capital gains or losses from the sale of homes, shares of stock, etc.
- Inheritances or insurance settlements
- Any type of loan
- Pay in-kind such as food, free rent, etc.

## What the Census Is About -

Some Questions and Answers

#### Why are we taking a census?

The most important reason for taking a decennial census is to determine how many representatives each state will have in Congress.

## What does the Census Bureau do with the information you provide?

The individual information collected in the census is grouped together into statistical totals. Information such as the number of persons in a given area, their ages, educational background, the characteristics of their housing, etc., enable government, business, and industry to plan more effectively.

## How long have we been taking the census?

The first census was taken in 1790 in accordance with the requirement in the first article of the constitution. A census has been taken every 10 years since. The 1990 Decennial Census marks the 200th anniversary of the census.

#### How are you being counted?

Census forms are delivered to all households a few days before census day. Households are requested to fill out the form and mail it back to the census office.

## Why the Census Asks Certain Questions

## Here are a few reasons for asking some of the questions.

It is as important to get information about people and their houses as it is to count them.

#### Name?

Names help make sure that everyone in a household is counted, but that no one is counted twice.

#### Value or rent?

Government and planning agencies use answers to these questions in combination with other information to develop housing programs to meet the needs of people at different economic levels.

#### **Complete plumbing?**

This question gives information on the quality of housing. The data are used with other statistics to show how the "level of living" compares in various areas and how it has changed over time.

#### Place of birth?

This question provides information used to study long-term trends as to where people move and to study migration patterns and differences in growth patterns.

#### Job?

Answers to the questions about the jobs people hold provide information on the extent and types of employment in different areas of the country. From this information, training programs can be developed and the need for new industries can be determined.

#### Income?

Income, more than anything else, determines how families or persons live. Income information makes it possible to compare the economic levels of different areas.

**CENSUS '90** 

# OFFICIAL 1990 U.S. CENSUS FORM



Thank you for taking time to complete and return this census questionnaire. It's important to you, your community, and the Nation.

#### The law requires answers but guarantees privacy.

By law (Title 13, U.S. Code), you're required to answer the census questions to the best of your knowledge. However, the same law guarantees that your census form remains confidential. For 72 years-or until the year 2062-only Census Bureau employees can see your form. No one else-no other government body, no police department, no court system or welfare agency-is permitted to see this confidential information under any circumstances.

#### How to get started-and get help.

Start by listing on the next page the names of all the people who live in your home. Please answer all questions with a black lead pencil. You'll find detailed instructions for answering the census in the enclosed guide. If you need additional help, call the toll-free telephone number to the left, near your address.

#### Please answer and return your form promptly.

Complete your form and return it by April 1, 1990 in the postage-paid envelope provided. Avoid the inconvenience of having a census taker visit your home.

Again, thank you for answering the 1990 Census. Remember: Return the completed form by April 1, 1990.

Para personas de habla hispana -(For Spanish-speaking persons)

Si usted desea un cuestionario del censo en español, llame sin cargo alguno al siguiente número: 1-800-CUENTAN (o sea 1-800-283-6826)

U.S. Department of Commerce BUREAU OF THE CENSUS

FORM D-2

OMB No. 0607-0628 Approval Expires 07/31/91

#### Page 1

The 1990 census must count every person at his or her "usual residence." This means the place where the person lives and sleeps most of the time.

1a. List on the numbered lines below the name of each person living here on Sunday, April 1, including all persons staying here who have no other home. If EVERYONE at this address is staying here temporarily and usually lives somewhere else, follow the instructions given in question 1b below.

#### Include

- Everyone who usually lives here such as family members, housemates and roommates, foster children, roomers, boarders, and live-in employees
- Persons who are temporarily away on a business trip, on vacation, or in a general hospital
- College students who stay here while attending college
- Persons in the Armed Forces who live here
- Newborn babies still in the hospital
- Children in boarding schools below the college level
- Persons who stay here most of the week while working even if they have a home somewhere else
- Persons with no other home who are staying here on April 1

#### Do NOT include

- Persons who usually live somewhere else
- Persons who are away in an institution such as a prison, mental hospital, or a nursing home
- College students who live somewhere else while attending college
- Persons in the Armed Forces who live somewhere else
- Persons who stay somewhere else most of the week while working

Print last name, first name, and middle initial for each person. Begin on line 1 with the household member (or one of the household members) in whose name this house or apartment is owned, being bought, or rented. If there is no such person, start on line 1 with any adult household member.

LAST	FIRST	INITIAL	LAST	FIRST	INITIAL
1			7		
2			8		
3			9		
4			10		
5			11		
6			12		

1b. If EVERYONE is staying here only temporarily and usually lives somewhere else, list the name of each person on the numbered lines above, fill this circle — o and print their usual address below. DO NOT PRINT THE ADDRESS LISTED ON THE FRONT COVER.

House number	Street or road/Rural route and box number	Apartment number	
City	State	ZIP Code	

County or foreign country

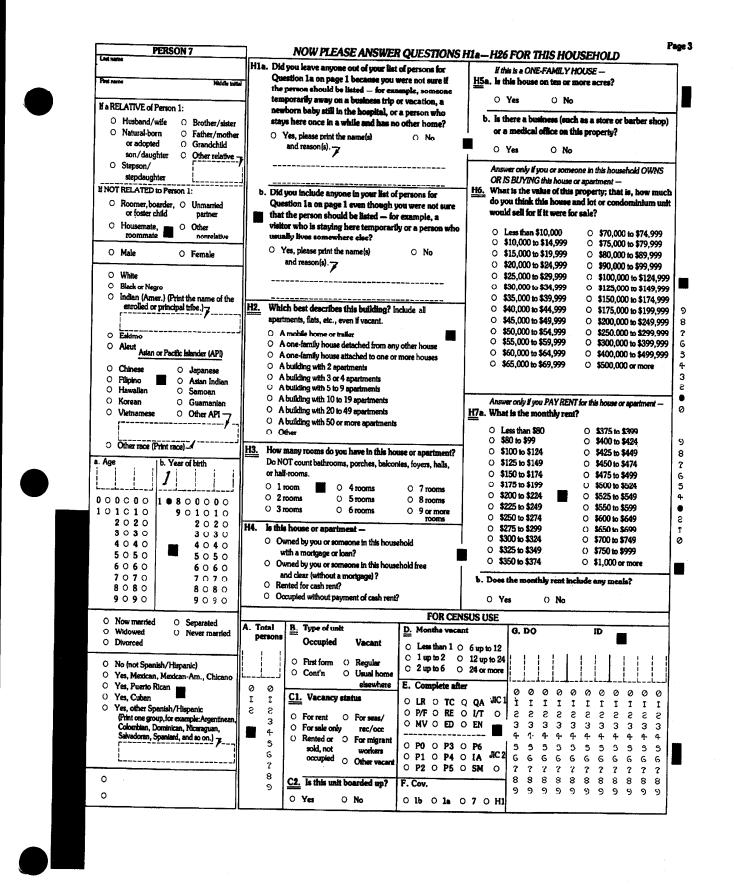
Names of nearest intersecting streets or roads

NOW PLEASE OPEN THE FLAP TO PAGE 2 AND ANSWER ALL QUESTIONS FOR THE FIRST 7 PEOPLE LISTED. USE A BLACK LEAD PENCIL ONLY. Page 2

### PLEASE ALSO ANSWER HOUSING QUESTIONS ON PAGE 3 -

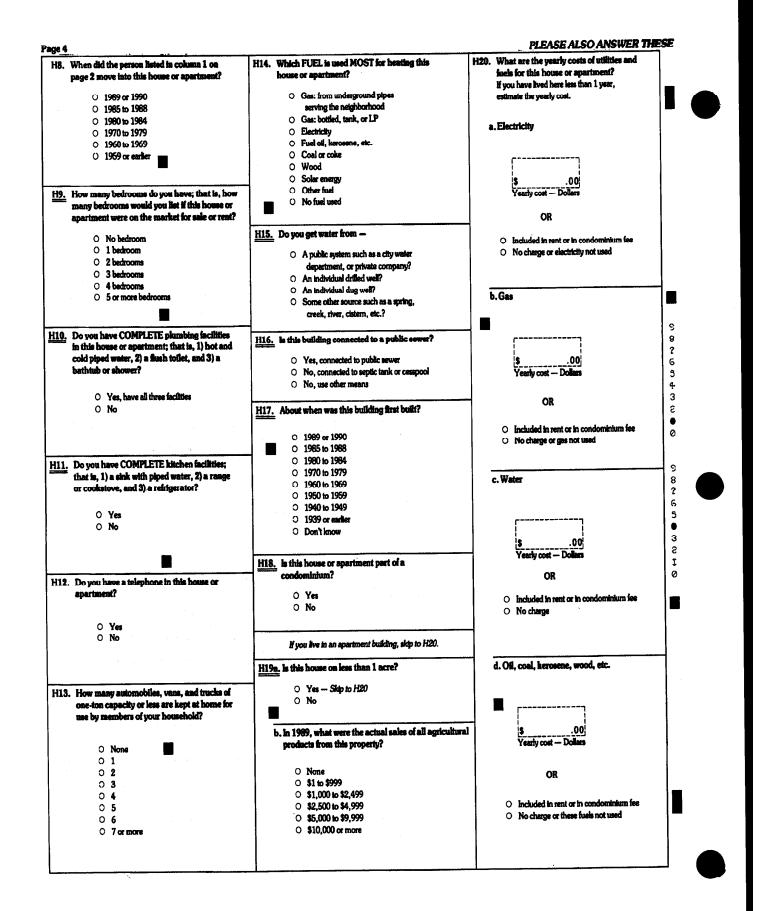
Please fill one column	START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented. If there is no such person, start in this column with	Last name       Middle nime         First name       Middle nime         If a RELATIVE of Person 1:       O         O Husband/wife       O         Brother/sister       O         or adopted       O         son/daughter       O         O Stepson/       Stepdaughter         If NOT RELATED to Person 1:       O         Roomer, boarder, or foster child       Unmarried partner         Housemate, roommate       O         O Male       O         White       Black or Negro         Indian (Amer.) (Print the name of the enrolled or principal tribe.) 7
Question 1a on page 1.         2. How is this person related to PERSON 1?         Fill ONE circle for each person.         If Other relative of person in column 1, fill circle and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.         3. Sex Fill ONE circle for each person.         4. Race Fill ONE circle for the race that the person considers himself/herself to be. If Indian (Amer.), print the name of	START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented. If there is no such person, start in this column with any adult household member.	If a RELATIVE of Person 1: Husband/wife OBrother/sister Natural-born Father/mother or adopted Grandchild son/daughter Other relative Stepson/ stepdaughter If NOT RELATED to Person 1: Roomer, boarder, OUnmarried or foster child partner Housemate, OUther nonrelative Male OFemale White Black or Negro Indian (Amer.) (Print the name of the
to PERSON 1? Fill ONE circle for each person. If Other relative of person in column 1, fill circle and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on. <b>3. Sex</b> Fill ONE circle for each person. <b>4. Race</b> Fill ONE circle for the race that the person considers himself/herself to be. If Indian (Amer.), print the name of	START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented. If there is no such person, start in this column with any adult household member.	<ul> <li>Husband/wife</li> <li>Brother/sister</li> <li>Natural-born</li> <li>Father/mother</li> <li>or adopted</li> <li>Grandchild</li> <li>son/daughter</li> <li>Other relative</li> <li>Stepson/</li> <li>stepdaughter</li> <li>If NOT RELATED to Person 1:</li> <li>Roomer, boarder, o</li> <li>Unmarried</li> <li>partner</li> <li>Housemate, roommate</li> <li>O Other</li> <li>O Other</li> <li>nonrelative</li> <li>White</li> <li>Black or Negro</li> <li>Indian (Amer.) (Print the name of the</li> </ul>
Fill ONE circle for each person. 4. Race Fill ONE circle for the race that the person considers himself/herself to be. If Indian (Amer.), print the name of	<ul> <li>White</li> <li>Black or Negro</li> <li>Indian (Amer.) (Print the name of the enrolled or principal tribe.)</li> </ul>	Male     Female       White     Black or Negro       Indian (Amer.) (Print the name of the
<ol> <li>Race         Fill ONE circle for the race that the person considers himself/herself to be.         If Indian (Amer.), print the name of     </li> </ol>	<ul> <li>White</li> <li>Black or Negro</li> <li>Indian (Amer.) (Print the name of the enrolled or principal tribe.)</li> </ul>	<ul> <li>White</li> <li>Black or Negro</li> <li>Indian (Amer.) (Print the name of the</li> </ul>
	O Eskimo	
If Other Asian or Pacific Islander (API), print one group, for example: Himong, Fijian, Laotian, Thal, Tongan, Pakistani, Cambodian, and so on.	<ul> <li>Aleut <u>Asian or Pacific Islander (API)</u></li> <li>Chinese</li> <li>Japanese</li> <li>Filipino</li> <li>Asian Indian</li> <li>Hawatian</li> <li>Samoan</li> <li>Korean</li> <li>Guamantan</li> <li>Vietnamese</li> <li>Other API 7</li> </ul>	<ul> <li>Eskimo</li> <li>Aleut <u>Asian or Pactic Islander (API)</u></li> <li>Chinese</li> <li>Japanese</li> <li>Filipino</li> <li>Asian Indian</li> <li>Hawailan</li> <li>Samoan</li> <li>Korean</li> <li>Guamanian</li> <li>Vietnamese</li> <li>Other API 7</li> </ul>
lf Other race, print race.	Other race (Print race)	O Other race (Print race)
<ul> <li>5. Age and year of birth <ul> <li>a. Print each person's age at last birthday.</li> <li>Fill in the matching circle below each box.</li> </ul> </li> <li>b. Print each person's year of birth and fill the matching circle below each box.</li> <li>6. Marital status</li> </ul>	a. Age       b. Year of birth         0 $\circ$ 0 $\circ$ 0 $\circ$ 1 $\bullet$ 8 $\circ$ 0 $\circ$ 0 $\circ$ 1 $\circ$ 1 $\circ$ 9 $\circ$ 1 $\circ$ 1 $\circ$ 2 $\circ$ 2 $\circ$ 2 $\circ$ 2 $\circ$ 3 $\circ$ 3 $\circ$ 3 $\circ$ 3 $\circ$ 4 $\circ$ 4 $\circ$ 4 $\circ$ 4 $\circ$ 5 $\circ$ 5 $\circ$ 5 $\circ$ 5 $\circ$ 6 $\circ$ 6 $\circ$ 6 $\circ$ 6 $\circ$ 7 $\circ$ 7 $\circ$ 7 $\circ$ 7 $\circ$ 8 $\circ$ 8 $\circ$ 8 $\circ$ 8 $\circ$ 9 $\circ$ 9 $\circ$ 9 $\circ$ 9 $\circ$	a. Age       b. Year of birth $0 \circ 0 \circ 0 \circ 0$ $1 \circ 8 \circ 0 \circ 0 \circ 0$ $1 \circ 1 \circ 1 \circ 0$ $9 \circ 1 \circ 1 \circ 0$ $2 \circ 2 \circ 0$ $2 \circ 2 \circ 2 \circ 0$ $3 \circ 3 \circ 0$ $3 \circ 3 \circ 0$ $4 \circ 4 \circ 0$ $5 \circ 5 \circ 0$ $5 \circ 5 \circ 0$ $6 \circ 6 \circ 0$ $6 \circ 6 \circ 0$ $6 \circ 6 \circ 0$ $7 \circ 7 \circ 0$ $7 \circ 7 \circ 0$ $8 \circ 8 \circ 0$ $8 \circ 8 \circ 0$ $9 \circ 9 \circ 0$ $9 \circ 9 \circ 0$
Fill ONE circle for each person.	Now married     Separated     Widowed     Never married     Divorced	Now married     Separated     Widowed     Never married     Divorced
7. Is this person of Spanish/Hispanic origin? Fill ONE circle for each person. If Yes, other Spanish/Hispanic, print one group.	<ul> <li>No (not Spanish/Hispanic)</li> <li>Yes, Mexican, Mexican-Am., Chicano</li> <li>Yes, Puerto Rican</li> <li>Yes, Cuban</li> <li>Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)</li> </ul>	<ul> <li>No (not Spanish/Hispanic)</li> <li>Yes, Mexican, Mexican-Am., Chicano</li> <li>Yes, Puerto Rican</li> <li>Yes, Cuban</li> <li>Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)</li> </ul>
FOR CENSUS USE	0 0 П	0 0

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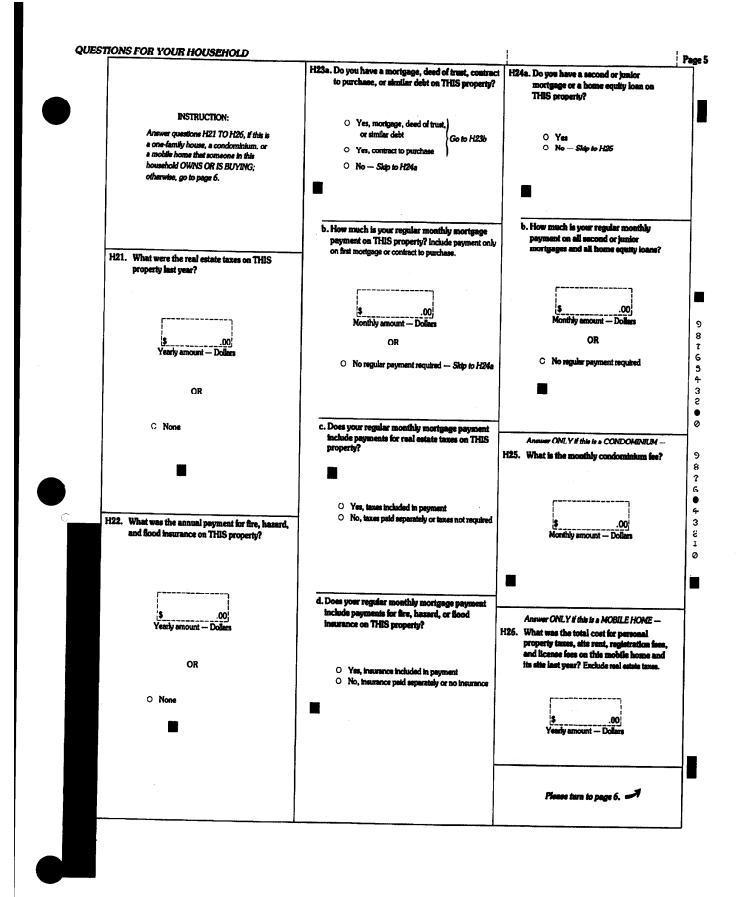
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E-11



E-12

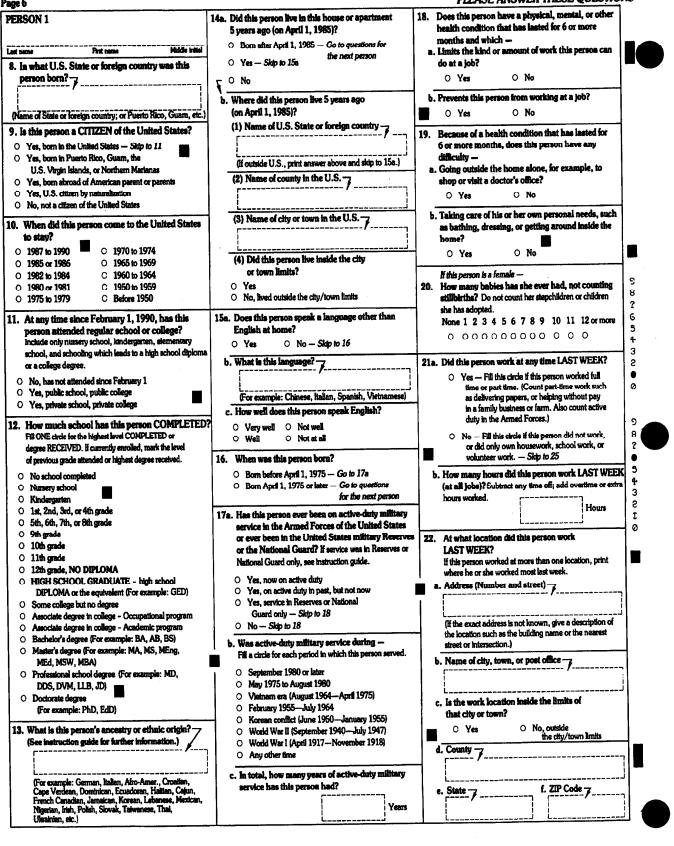
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FACSIMILES OF RESPONDENT INSTRUCTIONS AND QUESTIONNAIRE PAGES

E-13

Page 6



FOR PERSON 1 ON PAGE 2

23a. How did this person usually get to work LAST		
	28. Industry or Employer	32. INCOME IN 1989 -
WEEK? If this person usually used more than one		
method of transportation during the trip, fill the circle	a. For whom did this person work?	Fill the "Yes" circle below for each income source
of the one used for most of the distance.	If now on active duty in the Armed	received during 1989. Otherwise, fill the "No" circle.
	Forces, fill this circle O and print the	If "Yes," enter the total amount received during 1989
Car, truck, or van O Motorcycle	branch of the Armed Forces.	For income received jointly, see instruction guide.
O Bus or trolley bus O Bicycle		
O Streetcar or trolley car O Walked		If exact amount is not known, please give best estimat
O Subway or elevated O Worked at home		If net income was a loss, write "Loss" above
O Ratiroad Skip to 28	(Name of company, business, or other employer)	the dollar amount.
·	b. What kind of business or industry was this?	a. Wages, salary, commissions, bonuses, or tij
O Ferryboat O Other method	Describe the activity at location where employed.	
O Taxicab	A section of a section of a section of the section	from all jobs - Report amount before deduct
# "car, truck, or van" is marked in 23a, go to 23b. Otherwis		for taxes, bonds, dues, or other items.
skip to 24a.		O Yes
b. How many people, including this person,	(For example: hospital, newspaper publishing,	O No 5 .00
the second state of the se	mail order house, auto engine manufacturing,	Annual amount Dollars
usually rode to work in the car, truck, or van	retail bakery)	b. Self-employment income from own nonfarm
LAST WEEK?		Sear-employment income nom own nonarm
O Drove alone O 5 people	c. Is this mainly Fill ONE circle	business, including proprietorship and
O 2 people O 6 people	<ul> <li>Manufacturing</li> <li>O Other (agriculture,</li> </ul>	partnership — Report NET income after
	O Wholesale trade construction, service,	business expenses.
	O Retail trade government, etc.)	
O 4 people O 10 or more people	S HONE DODE SOVELIENER, EIC.)	○ Yes →
Ma William And all and an and a start of the	29. Occupation	O No 15 .00
24a. What time did this person usually leave home	a. What kind of work was this person doing?	Annual amount - Dollars
to go to work LAST WEEK?	- The And O WOR WOR UNE PERSON COORS!	c. Farm self-employment income - Report NET
[ ] O a.m.		income after operating expenses. Include earnings
O p.m.		as a tenant farmer or sharecropper.
	(For example: registered nurse, personnel manager,	○ Yes →
b. How many minutes did it usually take this person	supervisor of order department, gasoline engine	0 No \$ .00
to get from home to work LAST WEEK?	assembler, cake icer)	Annual amount - Dollars
	b. What were this person's most important activities	
		d. Interest, dividends, net rental income or roya
Minutes - Skip to 28	or duties?	income, or income from estates and trusts
		Report even small amounts credited to an account.
5. Was this person TEMPORARILY absent or on		
www.une person interior ORARILY absent or on	(For example: patient care, directing hiring policies,	O No \$ .00
layoff from a job or business LAST WEEK?	supervising order clerks, assembling engines,	Annual amount Dollars
	icing calves)	e. Social Security or Railroad Retirement
<ul> <li>Yes, on layoff</li> </ul>		
<ul> <li>Yes, on vacation, temporary filness,</li> </ul>	30. Was this person - Fill ONE circle	O Yes
		O No (\$
labor dispute, etc.	<ul> <li>Employee of a PRIVATE FOR PROFIT company or</li> </ul>	Annual amount - Dollars
O No	business or of an individual, for wages, salary, or	f. Supplemental Security Income (SSI), Aid to
а. А	commissions	Families with Dependent Children (AFDC), or
Co Monthly and the state	<ul> <li>Employee of a PRIVATE NOT-FOR-PROFIT,</li> </ul>	other public assistance or public
6a. Has this person been looking for work during the	tax-exempt, or charitable organization	welfare payments.
last 4 weeks?	O Local GOVERNMENT employes (city, county, etc.)	· · · · · · · · · · · · · · · · · · ·
г <sup>о</sup> Үен	State CONFERENCE	0 Yes
<ul> <li>No - Skip to 27</li> </ul>	O State GOVERNMENT employee	0 No 15 .00
	<ul> <li>Federal GOVERNMENT employee</li> </ul>	Annual amount - Dollars
b. Could this person have taken a job LAST WEEK	<ul> <li>SELF-EMPLOYED in own NOT INCORPORATED</li> </ul>	g. Retirement, survivor, or disability pensions -
if one had been offered?	business, professional practice, or farm	Do NOT include Social Security.
	O SELF-EMPLOYED in own INCORPORATED	0 Yes
O No, already has a job	business, professional practice, or farm	
<ul> <li>No, temporarily til</li> </ul>		O No II .00i Annual amount — Dollars
No, other reasons (in school, etc.)	<ul> <li>Working WITHOUT PAY in family business or farm</li> </ul>	h. Any other sources of income received regulari
• Yes, could have taken a job	31a. Last year (1989), did this person work, even for a	
- 144, COLAU LEPTE MILESI & JOD		such as Veterans' (VA) payments,
. When did this person last work, even for a few	few days, at a paid job or in a business or farm?	unemployment compensation, child support,
	O Yes	or alimony - Do NOT include lump-sum paymen
days?	No - Skip to 32	such as money from an inheritance or the sale
0 1990 0 1980 to 1984 )		of a home.
0 1989 ( 00 0 1979 or earlier Skip	h II.	
0 1988 10 0 Navar under 1 to 32	b. How many weeks did this person work in 1989?	○ Yes →
0 1985 to 1987) 28 0 Never worked )	Count paid vacation, paid sick	O No <b>5 .00</b>
~ 1071 W 1701	leave, and military service.	Annual amount — Dollars
+		33. What was this person's total income in 1989?
	Weeks	•••••••••••••••••••••••••••••••••••••••
-30. CURRENT OR MOST RECENT JOB		Add entries in questions 32a through 32h; subtract
ACTIVITY. Describe clearly this person's chief		any losses. If total amount was a loss, write "Loss"
job activity or business last week. If this person had	c. During the weeks WORKED in 1989, how many	above amount.
JUD ACUVILY OF DUBINESS lines wants. If this memory havi	hours did this person usually work each week?	
man A	were and one because merely work cach mock.	None OF
more than one job, describe the one at which this		O None OR
more than one job, describe the one at which this person worked the most hours. If this person had		
more than one job, describe the one at which this person worked the most hours. If this person had	Have	\$ .00
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FACSIMILES OF RESPONDENT INSTRUCTIONS AND QUESTIONNAIRE PAGES

## APPENDIX F. Data Products and User Assistance

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The 1990 census data products, being released during 1991-93, are available in a variety of new and traditional media. The Census Bureau has increased the product options available to data users in an effort to meet a variety of requirements and maximize the usefulness of the data. For example, laser discs, called CD-ROM (compact disc—read-only memory), are a new data delivery medium.

The Census Bureau also has expanded services and sources of assistance available to data users. For example, the State Data Center Program has been expanded to include over 1,400 organizations to provide data and services to the public.

This appendix provides a detailed introduction to the 1990 census data products and related materials, such as maps and reference publications. It concludes by describing sources of assistance and other Census Bureau data available to the public.

### DATA PRODUCTS

Printed reports and computer tape files traditionally are the most widely used products. The Census Bureau also offers data on microfiche, on CD-ROM laser discs, and through its online service, CENDATA<sup>™</sup>. These various products are described below. For information about prices and how to order, write or call Customer Services. (See the "Sources of Assistance" section for the address and phone number.)

The data products present statistics about the subjects covered in the 1990 census questionnaires. These subjects are listed in figure 1, page F–8. As the figure shows, there are 100-percent subjects (those covered in questions asked of everyone or about every housing unit) and sample subjects (those covered in questions asked at about one out of every six housing units). Generally, a data product presents either 100-percent data prepared by tabulating the responses to the 100percent questions from all questionnaires, or sample data prepared by tabulating only the responses to the 100-percent and sample questions from the "longform" questionnaires. Two report series, 1990 CPH-3 and 1990 CPH-4 (see figure 2, page F–9), present both 100-percent and sample data.

### **Printed Reports**

Printed reports are the most convenient and readily available source of data for most census users. The Census Bureau releases the reports in several series (see figure 2) that are grouped under three broad titles: 1990 Census of Population and Housing (1990 CPH), 1990 Census of Population (1990 CP), and 1990 Census of Housing (1990 CH). There also are reports, not reflected in figure 2, for the outlying areas of the Pacific. The reports are sold by the Superintendent of Documents, U.S. Government Printing Office. (See the "Sources of Assistance" section for the address and phone number.)

In several series, there are separate reports for each State. The geographic coverage of the State reports is listed in figure 2. The United States summaries for these report series contain, for the most part, data for the United States, regions, divisions, States, metropolitan areas (MA's), urbanized areas (UA's), counties, American Indian and Alaska Native areas, places with 10,000 or more persons, and other large substate areas (for example, county subdivisions, such as towns and townships, with 10,000 or more persons in selected States).

Report series that present data for small areas, such as census tracts, contain limited subject-matter detail (for example, counts of people by age ranges—under 5 years, 5 to 9 years, etc.—rather than by single years). Report series that include greater amounts of subjectmatter detail include less geographic detail.

### **Computer Tape Files**

The Census Bureau provides more data on tape and other machine-readable products than in printed reports. These products are sold by the Census Bureau's Customer Services. There are several general types of data files released on computer tape (available on both reels and cartridges). They are introduced below, and more information is presented in figures 3 and 4, pages F–12 through F–14.

**Public Law 94-171 Data**—This data file presents the counts designed and formatted for use in legislative redistricting. These counts also are available on CD-ROM and paper listings. Excerpts are available on CENDATA<sup>TM</sup>. The counts, for areas as small as blocks, census tracts, and voting districts, include totals for population, race groups, persons of Hispanic origin, population 18 years and over, and housing units. (See figure 4.)

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Summary Tape Files (STF's)— These computer tape files provide statistics with greater subject-matter detail than printed reports. They also present statistics for some types of areas, such as block groups and blocks, that are not included in the reports. (See figure 3.)

Here are some important features of STF's:

- Each STF presents a particular set of data tables for specific types of geographic areas.
- Each STF has three or more file types (indicated by a letter suffix attached to the STF number) that differ in the geographic levels reported, but contain the same data detail.
- STF's 1 and 2 contain 100-percent data, and STF's 3 and 4 offer sample data.
- STF's 1 and 3 report on smaller areas and offer less data detail than STF's 2 and 4.
- STF's 1 through 4 offer greater data detail than the 1980 STF's 1 through 4.

**Subject Summary Tape Files (SSTF's)**—These files are the source of the subject reports and provide greater subject-matter detail than the STF's. They present data for the United States, regions, and divisions, and, in some cases, also for States, counties, and large cities. (See figure 4.)

**Public Use Microdata Sample (PUMS) Files**—These computer tape files (see figure 4) contain data from samples of long-form housing-unit records ("microdata") for large geographic areas. Each sample housing-unit record includes essentially all the 1990 census data collected about each person in a sample household and the characteristics of the housing unit. Information that could be used to identify an individual or a housing unit is not included in the file.

Microdata files enable users to prepare customized tabulations and cross-tabulations of most items on the census questionnaire. There are two standard PUMS files:

- A file presenting a 5-percent sample of housing units in which each household record includes codes to let the user know in what area, such as a group of counties, a single county, or a place, the household is located. Each area identified must have a population of at least 100,000 and boundaries that do not cross State lines.
- A file presenting a 1-percent sample of housing units. Its household records include codes associating them with MA's and other large areas, the boundaries of which may cross State lines. (For the 1980 census, there were two files with 1-percent samples. The 1-percent sample showing data for selected urbanized areas and other large areas will not be produced for the 1990 census.)

There also is a special 3-percent "elderly" file with the same geography as the 5-percent sample. Included are households with at least one person age 60 or more and all members of those households.

Other Special Computer Tape Files—Other files include the Census/Equal Employment Opportunity (EEO) File and the County-to-County Migration File. (See figure 4.) The Census Bureau may prepare additional special files.

### Microfiche

All printed reports are offered on microfiche from Customer Services soon after they are published. Plans to prepare microfiche versions of selected other products were canceled, so that more products could be produced on CD-ROM.

### Compact Disc-Read-Only Memory (CD-ROM)

For the 1990 census, the Public Law (P.L.) 94-171 file; an extract of STF 1B that presents selected statistics for blocks; and STF's 1A, 1C, 3A, 3B, and 3C are available on CD-ROM. The Census Bureau also offers on CD-ROM: PUMS Files. SSTF's, Census EEO File, and County-to-County Migration File. (One 4 3/4-inch CD-ROM, a type of optical or laser disc, can hold the contents of approximately 1,600 flexible diskettes, or three or four high-density computer tapes.)

### **Online Information Systems**

The Census Bureau began CENDATA, its online information service, in 1984. CENDATA is accessible through two information vendors, CompuServe and DIALOG. A number of Census Bureau reports, in whole or in part, are offered online. For the 1990 census, CENDATA provides up-to-date information about the availability of data products and carries selections of State, county, MA, and place data from the P.L. 94-171 tape file and STF's 1 and 3. CENDATA also offers the entire Census EEO File.

### **Custom Data Products**

These products are for users who require unique tabulations that are not included in standard products; for example, information for locally defined geographic areas. Users also can order special microdata files.

The cost of preparing custom products must be paid by the users who request them. Any data that the Census Bureau provides in these products are subject to the same standards applied to other data to ensure that confidential individual information is not revealed.

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**User-Defined Areas Program (UDAP) Tabulations**— UDAP can provide a set of predefined data tables for locally defined areas that do not correspond to standard 1990 census geographic areas. Users identify the geographic areas of interest to them by delineating boundaries around groupings of census blocks on 1990 census County Block Maps or by electronically submitting the geographic components of their area of interest. (A contact for more information is given in the "Sources of Assistance" section.)

**Special Tabulations**—The Census Bureau can prepare special data tabulations for any specific geographic or subject-matter area. Users should rely on standard reports, tapes, microfiche, or user-defined area tabulations whenever possible, since special tabulations tend to be substantially more expensive and take time to arrange and produce. (Contacts for more information are given in the "Sources of Assistance" section.)

### **GEOGRAPHIC PRODUCTS**

#### Maps

Census Bureau maps are necessary for virtually all uses of small-area 1990 census data. They are needed to locate the specific geographic areas for which the census provides data and to study the spatial relationship of the data for analytic purposes. The Census Bureau prepares a variety of 1990 census maps. Among the most useful are these four series:

**County Block Maps**—These maps show census blocks and their numbers; boundaries for statistical and governmental entities, such as census tracts and places; and physical features. The P.L. 94-171 version of these maps also shows voting district boundaries in those States that furnished them. The maps are prepared on electrostatic plotters by county (or equivalent entity) with one or more map sheets each, depending on the size and shape of the area and the density of the block pattern. An average county requires 20 map sheets. The maps may be purchased from Customer Services.

**County Subdivision Outline Maps**—Maps in this Statebased series present the boundaries of the counties, county subdivisions, places, American Indian and Alaska Native areas (including off-reservation trust lands), tribal designated statistical areas, and tribal jurisdiction statistical areas. Electrostatic-plotter copies are available for purchase from Customer Services. Also, they appear on multiple page-size sheets in the State reports of these series: 1990 CPH-1, 1990 CPH-2, 1990 CPH-5, 1990 CP-1, 1990 CP-2, 1990 CH-1, and 1990 CH-2.

**Census Tract/ Block Numbering Area (BNA) Outline Maps**—Maps in this county-based series depict census tract or BNA boundaries and numbers, and the features

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underlying the boundaries. They also show governmental units in relation to the census tracts/BNA's. The Superintendent of Documents sells printed copies.

**Voting District Outline Maps**—Maps in this countybased series depict voting district boundaries (for those counties for which States furnished boundary information) and the features underlying the boundaries. They also show governmental unit boundaries in relation to the voting districts. They are prepared on electrostatic plotters and sold by Customer Services.

### **Geographic Publications**

The Geographic Identification Code Scheme report in the 1990 CPH-R series shows the 1990 census geographic area codes and Federal information processing standards (FIPS) codes, as appropriate, for States, metropolitan areas, counties, county subdivisions, places, American Indian and Alaska Native areas, and other entities, along with some descriptive information about the codes. The code scheme also is offered on computer tape.

### Machine-Readable Geographic Files

All 1990 census summary tape files include 1990 census geographic area codes, FIPS codes, certain area names, land and inland water area in square kilometers, geographic coordinates for an internal point for each entity, and other geographic information.

The Census Bureau developed an automated geographic data base, known as the TIGER (Topologically Integrated Geographic Encoding and Referencing) System, to produce the geographic products for the 1990 census. TIGER provides coordinate-based digital map information for the entire United States, Puerto Rico, the U.S. Virgin Islands, and the Pacific territories over which the United States has jurisdiction.

The TIGER System has significantly improved the utility of 1990 census maps and geographic reference products. Extract files generated from the TIGER System permit users, with appropriate software, to perform such tasks as linking the statistical data in the P.L. 94-171 file or the STF's and displaying selected characteristics on maps or a video display screen at different scales and with whatever boundaries they select for any geographic area of the country. For example, a map for a particular county could show the distribution of the voting age population by city block.

The first extract of selected geographic and cartographic information intended for computer applications, such as plotting maps and building geographic information systems, is called the TIGER/Line<sup>™</sup> files. TIGER/ Line<sup>™</sup> files contain attributes for the segments of each boundary and feature (for example, roads, railroads, and rivers), including 1990 census geographic codes for adjacent areas, latitude/longitude coordinates of segment end points and the curvature of segments, the name and type of the feature, and the relevant census feature class code identifying the feature segment by category. TIGER/Line<sup>™</sup> files also furnish address ranges and associated ZIP Codes for each side of street segments in major urban areas; provide the names of landmarks, such as lakes and golf courses; and include other information.

TIGER/Line<sup>™</sup> files and other TIGER System extracts, such as TIGER/Boundary<sup>™</sup> and TIGER/DataBase<sup>™</sup>, are released on computer tape and, in some cases, CD-ROM. For information on TIGER extract files, contact Customer Services.

### **REFERENCE MATERIALS**

The Census Bureau issues several reference publications for data users. Some are sold by the Superintendent of Documents; others are distributed free by Customer Services. Addresses and phone numbers for the Superintendent of Documents and Customer Services are given in the following section.

- 1990 Census of Population and Housing, Guide. This guide, in the 1990 CPH-R report series, provides detailed information about all aspects of the census and a comprehensive glossary of census terms. Sold by the Superintendent of Documents, U.S. Government Printing Office.
- 1990 Census of Population and Housing Tabulation and Publication Program. A free report describing 1990 census products, comparing 1990 products with those of 1980, and more. Request from Customer Services.
- Census '90 Basics. A free booklet covering how the 1990 census data were collected and processed, the full range of data products, the maps and geographic files, and more, but with less detail than the Guide (above). Request from Customer Services.
- Census ABC's—Applications in Business and Community. A free booklet that highlights key information about the 1990 census and illustrates a variety of ways the data can be used. Request from Customer Services.
- Strength in Numbers. A free, tabloid-size booklet designed to assist people in using 1990 census data in redistricting. Among other features, it includes illustrations of maps and Public Law 94-171 counts. Request from Customer Services.
- TIGER: The Coast-to-Coast Digital Map Data Base. A free booklet describing the structure and uses of the Census Bureau's TIGER System. Request from Customer Services.

- Census and You. The Census Bureau's monthly newsletter for data users. It reports on the latest 1990 census developments, selected new publications and computer tape files, other censuses and surveys, developments in services to users, and upcoming conferences and training courses. Subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office.
- Monthly Product Announcement. A free monthly listing of all new Census Bureau publications; microfiche; maps; data files on tape, diskettes, or CD-ROM; and technical documentation. To subscribe, contact Customer Services.
- Census Catalog and Guide. A comprehensive annual description of data products, statistical programs, and services of the Census Bureau. It provides abstracts of the publications, data files, microfiche, maps, and items online. In addition, the Catalog/ Guide offers such features as information about censuses and surveys and telephone contact lists of data specialists at the Census Bureau, the State Data Centers, and other data processing service centers. It is sold by the Superintendent of Documents, U.S. Government Printing Office.

Users also can get listings of new Census Bureau products, updated daily, by subscribing to the *Daily List*. This information and selected statistics are available online through CENDATA<sup>TM</sup>, the Census Bureau's online information service. For more information, contact Customer Services.

### SOURCES OF ASSISTANCE

### U.S. Bureau of the Census

The Census Bureau's Customer Services sells most of the machine-readable data products, microfiche, and maps described earlier. (The 1990 census printed reports are sold by the Superintendent of Documents, as noted below.) Also, users may consult with specialists at the Census Bureau's Washington headquarters and its 12 regional offices. From time to time, the specialists also conduct workshops, seminars, and training courses.

**Washington, DC, Contacts**—To order products, for a telephone contacts list of Census Bureau specialists, and for general information: Customer Services, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4100 (FAX number, 301-763-4794).

For User-Defined Areas Program (UDAP) information: UDAP Staff, Decennial Planning Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4282.

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For special tabulation information: Population—Rosemarie Cowan, Population Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-5476; Housing—William Downs, Housing and Household Economic Statistics, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-8553.

### **Regional Office Contacts—**

404-730-3833
617-565-7078
704-344-6144
312-353-0980
214-767-7105
303-969-7750
313-354-4654
913-236-3711
818-904-6339
212-264-4730
215-597-8313
206-728-5314

# Superintendent of Documents, U.S. Government Printing Office

The Superintendent of Documents handles the sale of most of the Federal Government's publications, including 1990 census reports. To order reports and for information: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, telephone 202-783-3238.

### **Other Sources of Products and Services**

**State Data Centers**—The Census Bureau furnishes data products, training in data access and use, technical assistance, and consultation to all States, the District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands. State Data Centers, in turn, offer publications for reference, printouts from computer tape, specially prepared reports, maps, and other products and assistance to data users. For a list of the State Data Centers, see the *Census Catalog and Guide* or contact Customer Services. The list also notes organizations in States participating in the Census Bureau's Business/Industry Data Center (BIDC) Program. The BIDC's help business people, economic development planners, and other data users obtain and use data.

**Census Information Center (CIC)**—The CIC program provides data-related services for nationally based nonprofit organizations that represent minorities or other segments of the population who have been historically undercounted in decennial censuses. The participants include social service, business, professional, civil rights, educational, and religious groups. Through the project, five nonprofit groups now offer their clientele reports, computer tape printouts, and other information from the

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Census Bureau. To learn more about the program, write to the Census Information Center Branch, Data User Services Division, Bureau of the Census, Washington, DC 20233, or call 301-763-1384.

**National Clearinghouse**—The National Clearinghouse for Census Data Services is a listing of private companies and other organizations that offer assistance in obtaining and using data released by the Census Bureau. For a list of participants in the National Clearinghouse, see the *Census Catalog and Guide* or contact Customer Services.

**Depository Libraries**—There are 1,400 libraries that receive (from the Government Printing Office) Federal publications that they think their patrons will need. Often some of these publications are Census Bureau reports. The Census Bureau provides free reports to an additional 120 census depository libraries. Also, many libraries purchase census reports and maps for their areas. The *Census Catalog and Guide* includes a list of all depository libraries.

### **OTHER CENSUS BUREAU RESOURCES**

The Census Bureau has more to offer than just the results of the census of population and housing. Through other censuses, surveys, and estimates programs, it compiles and issues (in reports, computer tape, and other media) data on subjects as diverse as appliance sales, neighborhood conditions, and exports to other countries. Here are examples of the information published about—

- People: Age, race, sex, income, poverty, child care, child support, fertility, noncash benefits, education, commuting habits, pension coverage, unemployment, ancestry.
- Business and industry: Number of employees, total payroll, sales and receipts, products manufactured or sold.
- Housing and construction: Value of new construction, numbers of owners and renters, property value or rent paid, housing starts, fuels used, mortgage costs.
- Farms: Number, acreage, livestock, crop sales.
- Governments: Revenues and expenditures, taxes, employment, pension funds.
- Foreign trade: Exports and imports, origin and destination, units shipped.
- Other nations: Population, birth rates, death rates, literacy, fertility.

The other censuses, such as agriculture, retail trade, manufactures, and governments, are collected for years ending in "2" and "7." Surveys and estimates programs generate results as often as every month.

Many of the monthly "economic indicators" that measure how the Nation is doing come directly or indirectly from the Census Bureau. Examples: employment and unemployment; housing starts; wholesale and retail trade; manufacturers' shipments, inventories, and orders; export and import trade; and sales of singlefamily homes.

The other statistical activities of the Census Bureau are described below. Data users will find more information about them and descriptions of their data products in the annual *Census Catalog and Guide*. Also, special guides and brochures are prepared for most of them. Contact the Census Bureau's Customer Services for more information.

### **Current Demographic and Housing Programs**

Two types of current programs complement the 10-year census: population estimates and surveys. The total population of the United States is estimated monthly; the population of States, counties, and metropolitan areas is estimated annually; and the population of places and other governmental units is estimated every 2 years. Projections of future population are made at the national and State levels.

The Census Bureau's many household surveys update population and housing characteristics at the national level and sometimes for States and metropolitan areas, as well. These surveys also obtain many characteristics not included in the 10-year census. The Current Population Survey is taken monthly; the American Housing Survey national sample is taken biennially; the American Housing Survey metropolitan sample is taken in 44 areas, 11 per year in a 4-year cycle; most other surveys are annual or less frequent.

### **Economic Censuses and Surveys**

The economic censuses provide statistics about business establishments once every 5 years, covering years ending in "2" and "7." The 1987 Economic Censuses include the censuses of retail trade, wholesale trade, service industries, transportation, manufactures, mineral industries, and construction industries. Also included are related programs, such as statistics on minority- and women-owned businesses, enterprise statistics, and censuses of economic activity in Puerto Rico and some of the outlying areas under U.S. jurisdiction.

Several key statistics are tabulated for all industries covered in the censuses. They are number of establishments, number of employees, payroll, and measure of output (sales or receipts, and value of shipments or of work done). Other items vary from sector to sector. The Census Bureau also has programs that provide current statistics on such measures as total sales of particular kinds of businesses or production of particular products. These programs include monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* and *Current Industrial Reports*. The County Business Patterns program offers annual statistics based on data compiled primarily from administrative records.

#### **Agriculture Census and Surveys**

The agriculture census is conducted concurrently with the economic censuses. It is the only source of uniform agriculture data at the county level. It provides data on such subjects as the number and size of farms; land use and ownership; livestock, poultry, and crops; and value of products sold.

Results of three surveys—the 1988 Farm and Ranch Irrigation Survey, 1988 Census of Horticulture Specialties, and 1988 Agricultural Economics and Land Ownership Survey—are published in conjunction with the 1987 Census of Agriculture. Also, the Census Bureau regularly issues reports from a survey on cotton ginnings.

### **Governments Census and Surveys**

The census of governments, also for years ending in "2" and "7," covers all types of governments: Federal, State, county, municipal (place), township (county subdivision), school district, and special district. It provides data on such subjects as number of public employees, payrolls, revenue, and expenditures.

Annual and quarterly surveys cover the same principal subjects but generate data only for States and the largest local governments.

#### **Foreign Trade Statistics**

Monthly U.S. merchandise trade data compiled by the Census Bureau summarize export and import transactions and are based on the official documents filed by shippers and receivers. These figures reflect the flow of merchandise but not intangibles like services and financial commitments. The trade figures trace commodity movements out of and into the U.S. Customs jurisdiction, which includes Puerto Rico and the U.S. Virgin Islands as well as the 50 States and the District of Columbia. Data are published separately on trade between the United States and Puerto Rico, the U.S. Virgin Islands, and other U.S. possessions.

### **Other Statistical Activities**

The Census Bureau also offers international data. It maintains an international data base which is available to the public on computer tape and is used to produce

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the biennial *World Population Profile* report. It prepares studies dealing with the demographic and economic characteristics of other countries and world regions.

Statistical compendia are another important data product. These publications (sometimes also offered in machine-readable form) draw data from many sources and reorganize them for convenient use. The most widely used compendia are the annual *Statistical Abstract* of the United States, the County and City Data Book (published every 5 years), and the State and Metropolitan Area Data Book (published approximately every 4 years).

### **100-PERCENT COMPONENT**

### Population

Household relationship Sex Race Age Marital status Hispanic origin

### Housing

Number of units in structure Number of rooms in unit Tenure—owned or rented Value of home or monthly rent Congregate housing (meals included in rent) Vacancy characteristics

### SAMPLE COMPONENT

#### Population

Social characteristics: Education—enrollment and attainment Place of birth, citizenship, and year of entry into U.S. Ancestry Language spoken at home Migration (residence in 1985) Disability Fertility Veteran status

*Economic characteristics:* Labor force Occupation, industry, and class of worker Place of work and journey to work Work experience in 1989 Income in 1989 Year last worked

#### Housing

Year moved into residence Number of bedrooms Plumbing and kitchen facilities Telephone in unit Vehicles available Heating fuel Source of water and method of sewage disposal Year structure built Condominium status Farm residence Shelter costs, including utilities

NOTE: Questions dealing with the subjects covered in the 100-percent component were asked of all persons and housing units. Those covered by the sample component were asked of a sample of the population and housing units.

### Figure 2. 1990 Census Printed Reports

	1000			······
	1000		TION AND HOUSING (1990 CPH ercent Data	9
1990 CPH-1	Summary Popula- tion and Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Population and housing unit counts, and summary statistics on age, sex, race, Hispanic origin, household relationship, units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CPH-2	Population and Housing Unit Counts	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Total population and housing unit counts for 1990 and previous cen- suses	States, counties, county sub- divisions, places, State com- ponent parts of metropolitan areas (MA's) and urbanized areas (UA's), and summary geographic areas (for exam- ple, urban and rural)
		100-Percent	and Sample Data	
1990 CPH-3	Population and Housing Charac- teristics for Cen- sus Tracts and Block Numboring Areas	MA's, and the nonmetropolitan balance of each State, Puerto Rico, and U.S. Virgin Islands	Statistics on 100-percent and sample population and housing subjects	In MA's: census tracts/ block numbering areas (BNA's), places of 10,000 or more inhabitants, and counties. In the remainder of each State: census tracts/ BNA's, places of 10,000 or more, and coun- ties
1990 CPH-4	Population and Housing Charac- teristics for Con- gressional Districts of the 103rd Con- gress	States and DC	Statistics on 100-percent and sample population and housing subjects	Congressional districts (CD's) and, within CD's, counties, places of 10,000 or more inhabitants, county subdivi- sions of 10,000 or more inhabitants in selected States, and American Indian and Alaska Native areas
		Sam	nple Data	
1990 CPH-5	Summary Social, Economic, and Housing Charac- teristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population and housing subjects	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
			POPULATION (1990 CP)	
			ercent Data	
1990	General Population	U.S. States. DC.	Detailed statistics on age.	States, counties, places of
		U.S. Virgin Islands	marital status, and house- hold relationship charac- teristics	county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural

### Figure 2. 1990 Census Printed Reports-Con.

Series 🛛	Title	Report(s) issued for	Description	Geographic areas
		1990 CENSUS OF POP	ULATION (1990 CP)Con	· · · · · · · · · · · · · · · · · · ·
		100-Perce	nt Data—Con.	
990 P-1-1A	General Population Characteristics for American Indian and Alaska Native Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and house- hold relationship charac- teristics	American Indian and Alaska Native areas; i.e., American Indian reservations, off- reservation trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
990 P-1-1B	General Population Characteristics for Metropolitan Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and house- hold relationship charac- teristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
90 ?-1-1C	General Population Characteristics for Urbanized Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and house- hold relationship charac- teristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
		Sam	ple Data	
990 >-2	Social and Eco- nomic Characteris- tics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population sub- jects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county sub- divisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and the State portion of American Indian areas
90 P-2-1A	Social and Eco- nomic Characteris- tics for American Indian and Alaska Native Areas	U. <b>S</b> .	Statistics generally on sample population sub- jects	American Indian and Alaska Native areas, as for CP-1-1A
90 P-2-1B	Social and Eco- nomic Characteris- tics for Metropoli- tan Areas	U.S.	Statistics generally on sample population sub- jects	Individual MA's, as for CP-1-1B
990 P-2-1C	Social and Eco- nomic Characteris- tics for Urbanized Areas	U.S.	Statistics generally on sample population sub- jects	Individual UA's, as for CP-1-1C
990 P-3	Population Subject Reports	Selected subjects	Approximately 30 reports on population census sub- jects such as migration, education, income, the older population, and racial and ethnic groups	Generally limited to the U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

### Figure 2. 1990 Census Printed Reports-Con.

Series	Title	Report(s) issued for	Description	Geographic areas
			F HOUSING (1990 CH) prcent Data	
1990 CH-1	General Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy char- acteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural
1990 CH-1-1A	General Housing Characteristics for American Indian and Alaska Native Areas	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy char- acteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, trust lands, tribal jurisdiction stati tical areas (Oklahoma), triba designated statistical areas, Alaska Native village statisti cal areas, and Alaska Native Regional Corporations
1990 CH-1-1B	General Housing Characteristics for Metropolitan Areas	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy char- acteristics	Individual MA's. For MA's split by State boundaries, summaries are provided bot for the parts and for the whole MA
1990 CH-1-1C	General Housing Characteristics for Urbanized Areas	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy char- acteristics	Individual UA's. For UA's split by State boundaries, summaries are provided bot for the parts and for the whole UA
		Sam	ple Data	
1990 CH-2	Detailed Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample housing subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county sul divisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and State parts of American Indian areas
1990 CH-2-1A	Detailed Housing Characteristics for American Indian and Alaska Native Areas	U.S.	Statistics generally on sample housing subjects	American Indian and Alaska Native areas, as in 1990 CH-1-1A
1990 CH-2-1B	Detailed Housing Characteristics for Metropolitan Areas	U.S.	Statistics generally on sample housing subjects	Individual MA's, as in 1990 CH-1-1B
1990 CH-2-1C	Detailed Housing Characteristics for Urbanized Areas	U.S.	Statistics generally on sample housing subjects	Individual UA's, as in 1990 CH-1-1C
1990 CH-3	Housing Subject Reports	Selected subjects	Approximately 10 reports on housing census sub- jects such as structural characteristics and space utilization	Generally limited to U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

DATA PRODUCTS AND USER ASSISTANCE

### Figure 3. 1990 Census Summary Tape Files

and data type (100 percent or sample) <sup>1</sup>		Geographic areas	Description
	A²	States, counties, county subdivisions, places, census tracts/ block numbering areas (BNA's), block groups (BG's). Also Alaska Native areas and State parts of Ameri- can Indian areas	
	B²	States, counties, county subdivisions, places, census tracts/BNA's, BG's, blocks. Also Alaska Native areas and State parts of American Indian areas	
STF 1 (100 percent)	C²	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabit- ants in selected States, metropolitan areas (MA's), urban- ized areas (UA's), American Indian and Alaska Native areas	Over 900 cells/ items of 100- percent population and hous- ing counts and characteris- tics for each geographic area
	<b>D</b>	Congressional districts (CD's) of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, Alaska Native areas, and American Indian areas	
	Α	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and cen- sus tracts/ BNA's	
STF 2 (100 percent)	В	States (including summaries such as urban and rural), counties, places of 1,000 or more inhabitants, county sub- divisions, State parts of American Indian areas, and Alaska Native areas	Over 2,100 cells/ items of 100-percent population and housing counts and charac- teristics for each geographic area. Each of the STF 2 files will include a set of tabula- tions for the total population
	С	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabit- ants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	and separate presentations of tabulations by race and Hispanic origin
	A <sup>2</sup>	States, counties, county subdivisions, places, census tracts/ BNA's, BG's. Also Alaska Native areas and State parts of American Indian areas	
	B²	Five-digit ZIP Codes within each State	
STF 3 (Sample)	C²	U.S., regions, divisions, States, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, American Indian and Alaska Native areas, MA's, UA's	Over 3,300 cells/ items of sample population and hous- ing characteristics for each geographic area
	D	CD's of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States	

### Figure 3. 1990 Census Summary Tape Files-Con.

(100 percent o sample) <sup>1</sup>		Geographic areas	Description
	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and cen- sus tracts/ BNA's	
STF 4 (Sample)	В	State (including summaries such as urban and rural), coun- ties, places of 2,500 or more inhabitants, county subdivi- sions of 2,500 or more inhabitants in selected States, all county subdivisions in New England MA's, State parts of American Indian areas, and Alaska Native areas	Over 8,500 cells/ items of sample population and hous ing characteristics for each geographic area. Each of th STF 4 files will include a set of tabulations for the total population and separate pre
	С	U.S., regions, divisions, States (including urban and rural and metropolitan and nonmetropolitan components), coun- ties, places of 10,000 or more inhabitants, county subdivi- sions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	sentations of tabulations by race and Hispanic origin.

STF 4 in 1980, but for 1990 this is a separate file and must be ordered and purchased separately from STF 4. The file contains 20 place of work destinations for each county or county equivalent, minor civil division, place of 10,000 or more persons, and census tract or block numbering area. Data are also provided for each major race and for workers of Hispanic origin cross-classified by race. The geographic level of the destinations varies. A destination may be a place, county, balance of county, metropolitan area, or balance of metropolitan area.

<sup>1</sup>Similar STF's will be prepared for Puerto Rico and the U.S. Virgin Islands. <sup>2</sup>Also available on laser disc (CD-ROM). STF 1B CD-ROM presents only part of the data for blocks and other areas in the tape file.

			_		
Figure 4.	Other	1990	Census	Data	Products

Title	Description	Geographic areas
Subject Summary Tape Files	About 20 computer tape files used to produce the subject reports (1990 CP-3 and 1990 CH-3 series). On the average, a file is the source of two subject reports	U.S., regions, divisions, States, metropolitan areas (MA's), and large counties and places
Public Law 94-171 Data File (redistricting data)	Counts by total, race, and Hispanic origin for the total population and population 18 years old and over, and counts of housing units. Available on tape, CD-ROM, and paper listings	States, counties, county subdivisions, places, census tracts/ block numbering areas (BNA's), block groups (BG's), and blocks; voting districts where States have identified them for the Census Bureau; and American Indian and Alaska Native areas
Census/ Equal Employ- ment Opportunity (EEO) Special File	Sample tabulations showing detailed occupa- tions and educational attainment data by age; cross tabulated by sex, Hispanic origin, and race	Counties, MA's, places of 50,000 or more inhabitants
County-to-County Migration File	Summary statistics for all intra-state county-to- county migration streams and significant inter- state county-to-county migration streams. Each record will include codes for the geographic area of destination, and selected characteris- tics of the persons who made up the migration stream	States, counties
Public Use Microdata Sample (PUMS) Files	Machine-readable files containing a sample of individual long-form census records showing most population and housing characteristics but with identifying information removed	
5 Percent—County Based		County groups, counties, county subdivi- sions, and places with 100,000 or more inhabitants
1 Percent—Metro- politan Areas (1990)		MA's and other large areas with 100,000 or more inhabitants
3 Percent—Elderly	As above, but includes only households with at least one person age 60 or more	Same as for 5-percent sample
User-Defined Areas Tabulations	A set of standard tabulations provided on print- outs, tapes, or other products with maps and narrative (if requested)	User-defined areas created by aggregating census blocks
Special Tabulations	User-defined tabulations for specified geo- graphic areas provided on printouts, tapes, or other products	User-defined areas or standard areas

## APPENDIX G. Maps

#### CONTENTS

**Census Tract/Block Numbering Area** 

Outline Map Sample	G-4
County Block Map Sample	G3
County Subdivision Map Sample	G5
Legend	G2
Map Descriptions	G-1
Terminology	G-1

There are three map series that relate to the geographic entities for which the Census Bureau provides statistics in the STF 4 data tapes. Copies of county block maps and county subdivision maps will be reproduced on electrostatic plotters in response to orders received by Customer Services, Data User Services Division, Bureau of the Census, Washington, DC 20233 (301) 763-4100. Census tract/block numbering area outline maps may be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

### **MAP DESCRIPTIONS**

County Block Mape—These maps depict each county on one or more map sheets at various scales, depending on the county's areal size and the density of the block pattern. (Most counties include multiple map sheets, including inset maps for densely settled areas.) The maps display block numbers and feature identifiers as well as the boundaries, names, and codes for the legal and statistical entities in the county. Each county includes an index map sheet that shows the locations of the map sheets comprising the county set. Census Tract/Block Numbering Area Outline Maps—These county-based maps depict the boundaries and codes of census tracts or block numbering areas, the features and feature names underlying the boundaries, and the boundaries and names of counties, county subdivisions, places, and American Indian/Alaska Native areas. Map scales vary to minimize the number of sheets. The maps may include one or more insets for densely settled areas.

**County Subdivision Maps**—These State-based maps depict the boundaries and names of all counties and statistically equivalent areas, county subdivisions, and places. (The Census Bureau also will publish sectionalized versions of these maps in most 1990 census reports.)

### TERMINOLOGY

Refer to appendix A for an explanation of the types of areas. Two terms used in the legend require explanation:

Asterisk(\*)—A symbol following a block number to indicate the block number is repeated elsewhere in the block or is shown partially on an adjacent map sheet or on an inset map.

**Fishhook**( )—A map symbol drawn across a physical feature (creek, brook, etc.) or boundary on census maps to show that the areas on both sides of the feature or boundary belong to the same census block.

MAPS

### Legend

LEGEND

SYMBOL DESCRIPTION	<u>5YMBOL</u>	NAME STYLE CANADA	FIPS CODE	CENSUS CODE
American Indian Reservation	*******	CAMPO RSVN	10522	(0450)
Trust Land	********		10522	(0450T)
Aleska Native Regional Corporation	• • • • • • • • •	ALEUT ANRC		(14)
Aleska Netive Villege Statistical Area, Tribal Jurisdiotion Statistical Area, or Tribal Designated Statistical Area	••••	KAW T <b>jsa</b>	38870	(5340)
State 1		NEW YORK	(36)	
County 1	CETCRECKE	ERIE COUNTY	(029)	3
Minor Civil Division *		YORK TWP		(070)
Census County Division		KULA DIV	91889	(030)
Incorporated fleee		Rome City	63418	(3120)
Consus Designated Ploce	00000000000	Zena	84187	(4100)
Corporate Corridor	000000000	1680		
Consus Tract or Blook Numbering Ar		5702.01		
Blook Number (With Asterisk) <sup>3</sup>	386+			
Fishhook *	<u> </u>			
Cres-of-Vessel	1 Treel 1083 ook	4 2130.99 4 901Z		

Note: An international boundary also depicts a state boundary and a county boundary; a state boundary also depicts a county boundary. The symbols for all other coincident boundaries are shown alternately, as shown in the stample: e.g.: **E O O O O O O** 

FEATURE	SYMBOL	NAME STYLE
Interstate Highway and Limited Access Road <sup>®</sup>		Interstate 835
Other Highway <sup>®</sup>		Rts 101
City Street, Other Connecting Road, or Dirt Road <sup>®</sup>		Mersh Ln
Jeep Trail, Walkwey, or Stairwey		Labelle Welk
Reilrood	++++++	
Farry Crossing	FERRY	
Pipeline or Power Trensmission Line		
Ridge, Fence, Gonyon, or Other Physical Fecture		RIDOL
Nonvisible Boundory or Other Fecture Not Elsewhere Clossified		PROPERTY LINE
Perenniaj Stream, or Shoreline of Perennia] Valer Body		Tumbling Creek
Intermittent Stream, or Shoreline of Intermittent Woter Body		Piney Creek
Large River, Loke, er Other Water Body		Pleasant Lake
Militery Installation	N/A	Fart Balveir
Perk (National, State, or Local)		Yosemite
Mountoin Peak	<b></b>	Pikee Peak
Inset Area		

+ State or County; or their equivalent area for statistical purposes.

9 A five-spoked asterisk following a minor civil division indicates that the minor civil division is constantive with an incorporated place and has the same name.

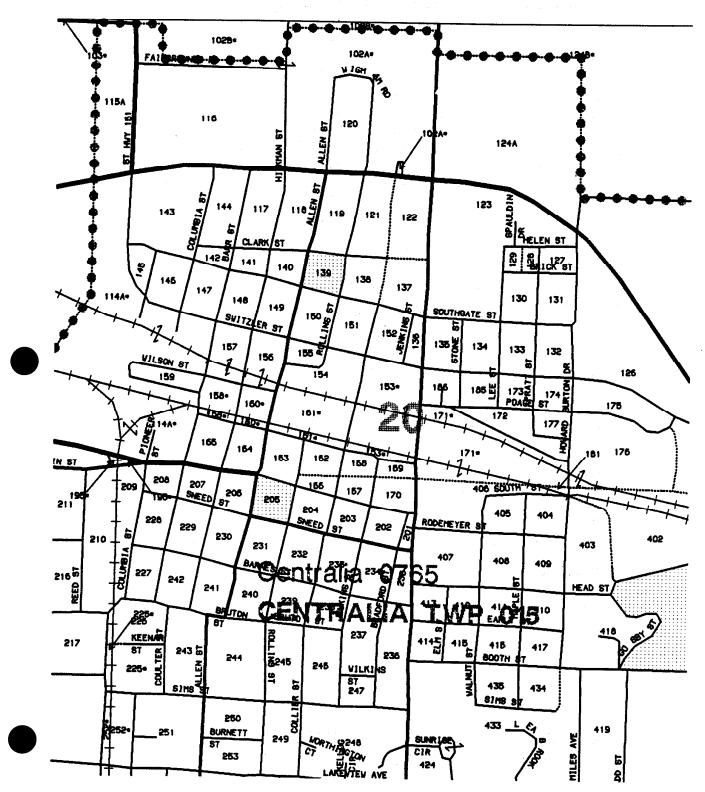
3 An atterisk following a block number indicates that the block number is repeated elsewhere in the block or is shown partially on an adjacent map sheet.

• A fighhook coress a map feature or boundary indicates that the areas on both sides of the feature or boundary belong to the same consus block.

6.4 % symbol indicates that there was insufficient space to plot a road name. Road names in parentheses indicate that the road has more than one name.

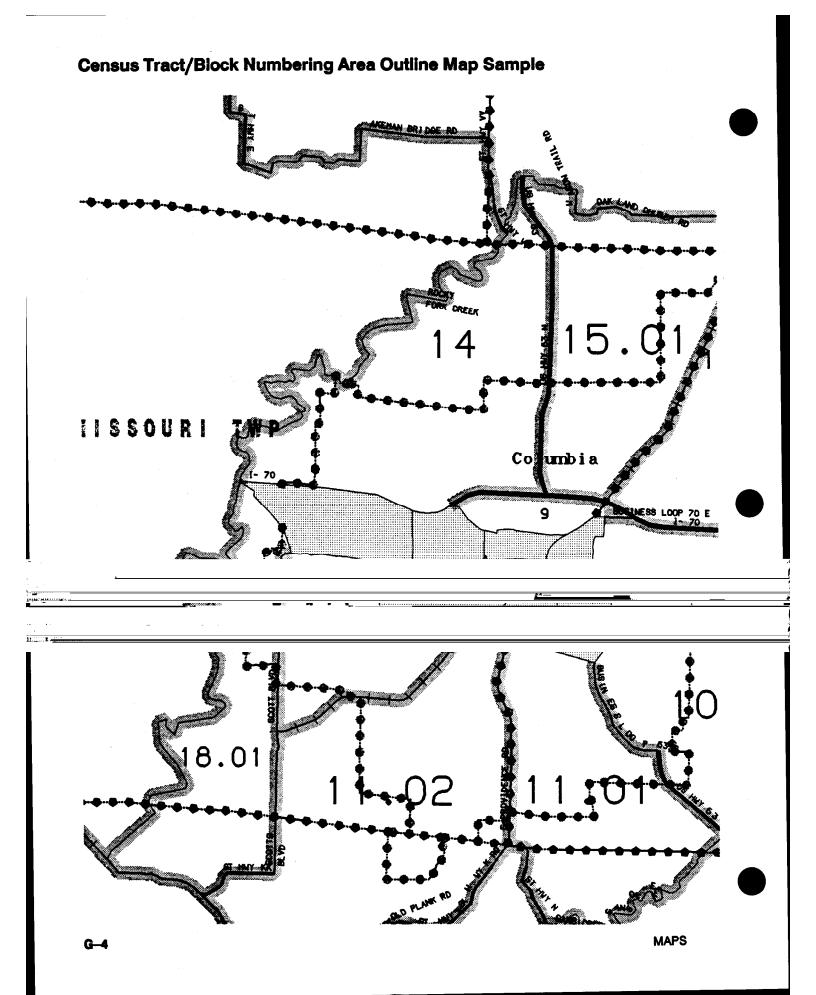
MAPS

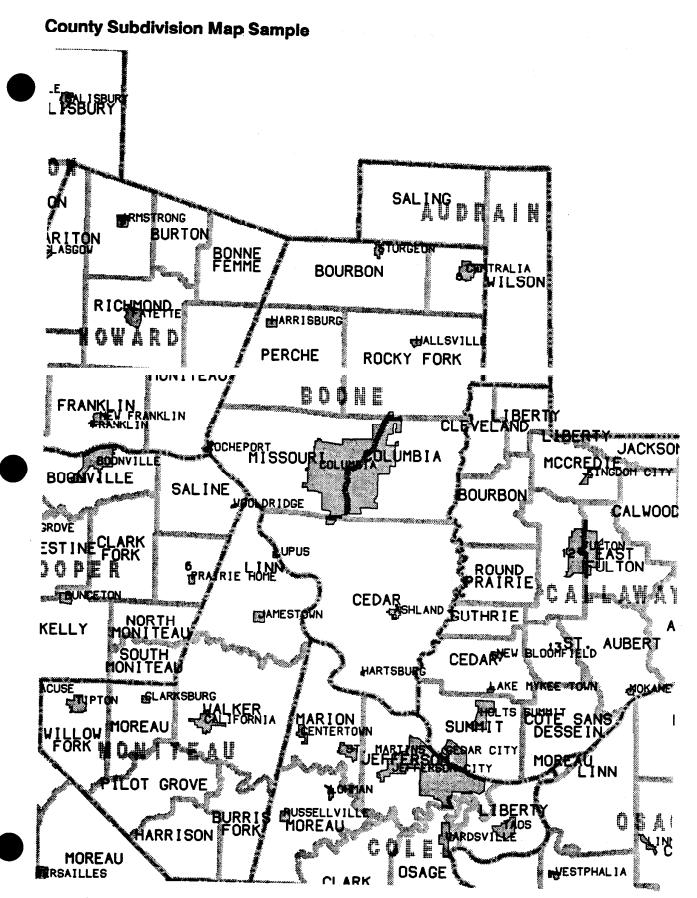
**County Block Map Sample** 



MAPS

G-3





MAPS

G--5

## APPENDIX H. Record Layout of Machine-Readable Data Dictionary

#### CONTENTS

Geographic Description----- H-1 Table (Matrix) Description ----- H-2

This appendix provides the record layout for the machine-readable data dictionary file that accompanies each data tape. This data dictionary was developed as a "generic" dictionary that, with some programming, could be converted for use with specific software packages.

### **GEOGRAPHIC DESCRIPTION**

# Geographic Record 1—Field Mnemonic, Size, and Type

Position	Description
1-2	Identifier "G1" (Geographic Record 1)
3	Blank
4-11	Field mnemonic (left justified)
12	Blank
13-14	Field size (right justified)
15	Blank

- 16-18 Data type (left justified) Note: Legal entries are A, N, and A/N
- 19 Blank
- 20-24 Begin position (right justified)

```
(Begin position in relation to the entire record)
25 Blank
```

26-30 Relative begin position (right justified) (Begin position in relation to the record segment)

### Geographic Record 1-Con.

- 31 Blank
- 32 Number of implied decimals
- 33-80 Blank

### **Geographic Record 2—Field Description**

- Position Description
- 1-2 Identifier "G2" (Geographic Record 2)
- 3 Blank
- 4-8 Begin position (right justified) (repeat from 20-24 above)
- 9 Blank
- 10-80 Field Description (left justified)

### **Geographic Record 3—Code Identification**

- Position Description
- 1-2 Identifier "G3" (Geographic Record 3)
- 3 Blank
- 4-8 Begin position (right justified) (repeat from 20-24 in G1)
- 9 Blank
- 10-17 Codes (right justified)
- 18 Blank
- 19-80 Code identification (left justified)

### **Geographic Description Examples**<sup>1</sup>

Examples of the geographic records are shown below. In example 1, there are no G3 records. G3 records will appear only for fields which have code listings in the technical documentation.

### Example 1

```
G1 FILEID 8 A/N 1 1 0
G2 1 File Identification
```

#### Example 2

G1 PS	SADC	2 A/N 289 289 0
		Political/Statistical Area Description Code
G3	289	01 State or State equivalent - no status is appended to the name
G3	289	01 of the entity in census publications and related data products
G3	289	04 Borough - county equivalent in Alaska; "Borough" is appended t
	289	04 o the name of the entity in census publications and related da
G3	289	04 ta products
G3	289	05 Census area - county equivalent in Alaska; "Census Area" is ap
G3	289	05 pended to the name of the entity in census publications and re
G3	289	05 lated data products

<sup>1</sup>Examples are for illustrative purposes and are not specific to this STF.

RECORD LAYOUT OF MACHINE-READABLE DATA DICTIONARY



### TABLE (MATRIX) DESCRIPTION

# Table Record 1—Table Number and Characteristics

Position	Description
1-2	Identifier "T1" (Table Record 1)
3	Blank
<b>4-9</b>	Table (matrix) number (left justified)
10	Blank
11-17	
	(Begin position in relation to the entire record)
18	Blank
19-25	Relative begin position (right justified) <sup>2</sup>
	(Begin position in relation to the record
	segment)
26	Blank
27-28	Cell size for this table (matrix) (right justified)
29	Blank
30	Number of implied decimals for cells in this
	table (matrix)
31	Blank
32-38	Number of cells in this table (matrix) (right
	justified) <sup>2</sup>
39	Blank
40-42	Number of variables (right justified)
43-80	Blank

### **Table Record 2---Table Title**

Position	Description
1-2	Identifier "T2" (Table Record 2)
3	Blank
4-9	Table (matrix) number (left justified)
10	Blank
11-80	Table (matrix) title (left justified)

### **Table Record 3—Universe Description**

Position	Description		
1-2	Identifier "T3" (Table Record 3)		
3	Blank		

#### Example 3

Sex (2) by Marital Status(5) [10]

### Table Record 3-Con.

- 4-9 Table (matrix) number (left justified)
- 10 Blank
- 11-80 Universe Description (left justified)

### Table Record 4-N—Table Variable Descriptions

Position	Description
1-2	Identifier "Tn" n = sequence number of variable
	in the table being described.
-	

- 3 Blank
- 4-9 Table (matrix) number (left justified)
- 10 Blank
- 11-76 Variable name (left justified)
- 77 Blank
- 78-80 Number of categories for this variable (right justified)

Note: Subsequent "T" records with the same "n" will have the variable categories described in positions 11-80.

### **Filler Record**

- Position Description
- 1-2 Identifier "F1" (Filler Record)
- 3 Blank
- 4-7 "FILL"
- 8-10 Blank
- 11-17 Begin Position (right justified) (Begin position in relation to the entire record)<sup>2</sup>
- 18 Blank
- 19-25 Relative Begin Position (right justified) (Begin position in relation to the record segment)<sup>2</sup>
- 26 Blank
- 27-30 Total number of "FILL" blanks
- 31-80 Blank

### Matrix Example<sup>1</sup>

See example 3 below.

T1 P14	4423 4423 9 0 10 2	
T2 P14	SEX BY MARITAL STATUS	
T3 P14	Persons 15 years and over	
T4 P14	SEX	2
T4 P14	Male	
T4 P14	Female	
T5 P14	MARITAL STATUS	5
T5 P14	Never married	
T5 P14	Now married, except separated	
T5 P14	Separated	
T5 P14	Widowed	
T5 P14	Divorced	
1		

<sup>1</sup>Examples are for illustrative purposes and are not specific to this STF.

<sup>2</sup>These positions have been increased to accommodate all record sizes. Previous products had less characters; future products (STF 3 PR, STF 3 VI, STF 4, etc.) will have the above structure.

# APPENDIX I. Code Lists

### CONTENTS

Ancestry	<b>L</b> -1
Group Quarters	
Hispanic Origin	⊢17
Industry	<b>⊢22</b>
Language	<b>⊢24</b>
Occupation	⊢30
	⊢37
Place of Birth	<b>⊢5</b> 0
Naçe	

### ANCESTRY

This section contains the code list for ancestry categories. Each person enumerated in the census had the opportunity to enter two distinct ancestry identities which indicated his or her ethnic origin. Each entry received one of the unique three-digit codes listed below. All codes are listed below. However, not all ancestry entries are listed. The ancestry codes can be aggregated to create commonly recognized national groupings. For example, the code for Walloon can be collapsed with other "Belgian" entries to form a national grouping representative of an area in Europe. National groupings can also be collapsed to represent continental areas. For example, Belgium can be added to France and other European clusters to form a representation of that continent. "n.e.c." is the abbreviation for not elsewhere classified.

000-099	WESTERN EUROPE (EXCEPT SPAIN)	000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
000-001	ALSATIAN	011-014	BRITISH
000-001	Alsace Lorraine	011	BRITISH
		011	Great Britain
002	ANDORRAN	011	United Kingdom
002	Andorra	012	BRITISH ISLES
		013	CHANNEL ISLANDER
003-004	AUSTRIAN	013	Guernsey Islander
003	AUSTRIAN	013	Jersey Islander
003	Austria	014	GIBRALTAR
004	TIROL		
004	Tirol	015	CORNISH
		015	Cornwall
005-007	BASQUE		
005	BASQUE	016	CORSICAN
005	Euskalduna	016	Corsica
005	Euzkadi		
006	FRENCH BASQUE	017-019	CYPRIOT
007	SPANISH BASQUE	017	CYPRIOT
007	Vasco	017	Cyprus
		018	GREEK CYPRIOTE
008-010	BELGIAN	019	TURKISH CYPRIOTE
800	BELGIAN		
008	Belgium	020	DANISH
009	FLEMISH	020	Denmark
009	Flanders		
009	Fleming	021	DUTCH
009	Vlamand	021	Holland
010	WALLOON	021	Netherlands

000-099	WESTERN EUROPE (EXCEPT SPAIN)Con.	000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
022	ENGLISH	046-048	GREEK
022	Anglican	046	GREEK
022	England	046	Greece
022	Mayflower	047	CRETAN
ULL	maynowor	048	CYCLADES
023	FAEROE ISLANDER	048	Dodecanese Islander
023	Faeroe Islands	048	Peloponnesian
020		040	
024-025	FINNISH	049	ICELANDER
024	FINNISH	049	Iceland
024	Finland		
025	KARELIAN	050	IRISH
		050	Black Irish
026-027	FRENCH	050	Clare
026 027	FRENCH	050	Cork
026	France	050	Donegal
026	Gascon	050	Dubliner
026	Hugenot	050	Eire
		050	Galway
026	Normandy LORRAINE	050	Ireland
027	LURRAINE		Irish Free State
	PRETON	050	
028	BRETON	050	Kerry
028	Breizh	050	Kildare
028	Bretagne	050	Kilkenny
028	Brittany	050	Laoighis
		050	Leitrim
029	FRISIAN	050	Leix
029	Friesian Islands	050	Limerick
		050	Longford
030-031	FRIULIAN	050	Louth
030	FRIULIAN	050 050	Mayo Meath
030	Friuli		
030	Furlan	050	Monaghan
031	LADIN	050	Offaly
	OFFICIAL	050	Roscommon
032-045	GERMAN	050	Sligo
032	GERMAN	050	Tipperary
032	Germany	050	Waterford
033	BAVARIA	050	Westmeath
034	BERLIN	050	Wexford
035	HAMBURG	050	Wicklow
036	HANNOVER		
037	HESSIAN	051-074	ITALIAN
038	LUBECKER	051	ITALIAN
039	POMERANIAN	051	Istria
040	PRUSSIAN	051	Italy
041	SAXON	052	TRIESTE
042	SUDETENLANDER	053	ABRUZZI
043	WESTPHALIAN	054	APULIAN
044	EAST GERMAN	054	Apulia
045	WEST GERMAN	055	BASILICATA
045	Palatinate	055	Lucania
045	Rhineland	056	CALABRIAN
		057	AMALFIN
		057	Campania

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.	000-099	WESTERN EUROPE (EXCEPT SPAIN)Con.
058	EMILIA ROMAGNA	082	NORWEGIAN
059	ROME	082	Jan Meyen Islander
059	Lazio	082	Norway
059	Vatican City	082	Spitsbergen
060	LIGURIAN	082	Svalbard Islander
061	LOMBARDIAN		
062	MARCHE	083	OCCITAN
063	MOLISE	083	Provence
064	NEAPOLITAN	000	
065	PIEDMONTESE	084-086	PORTUGUESE
066	PUGLIA	084	PORTUGUESE
067	SARDINIAN	084	Lusitania
068	SICILIAN	084	Luso
068	Sicily	084	Portugal
069	TOŚCANA	085	AZORES ISLANDER
069	Tuscany	086	MADEIRA ISLANDER
070	TRENTINO		
071	UMBRIAN	087	SCOTCH-IRISH
072	VALLE DAOST	087	Scot-Irish
073	VENETIAN		
073	Venezia Giulia	088	SCOTTISH
074	SAN MARINO	088	Orkney Islander
		088	Pict
075	LAPP	088	Scot
075	Lapland	088	Scotland
075	Samelat	088	Shetland Islander
070			
076 076	LIECHTENSTEINER	089-090	SWEDISH
076	Liechtenstein	089	SWEDISH
077		089	Sweden
077	LUXEMBURGER	090	ALAND ISLANDER
0//	Luxemburg		
070		091-096	SWISS
078 078	MALTESE	091	SWISS
078	Gozo	091	Switzerland
070	Malta	092	SUISSE
079		093	SWITZER
079		093-094	Schweiz
0/9	Isle of Man	095	ROMANSCH
080	MONECASOUE	096	SUISSE ROMANE
080	MONEGASQUE Monaco	096	Ticino
000	MONACO		
081	NORTH IRISH	097	WELSH
081	Antrim	097	Wales
081			
081	Armagh	098	SCANDINAVIAN
081	Derry Down	098	Nordic
081	Fermanagh	098	Scandinavia
081	0	000	
081	Londonderry	099	CELTIC
081	Northern Ireland	099	Celtic
081	Orangeman		
081	Tyrone Ulster		
	CIPICI		

100-180	EASTERN EUROPE AND SOVIET UNION	100-180	EASTERN EUROPE AND SOVIET UNION-Con.
100	ALBANIAN	115-116	ESTONIAN
100	Albania	115	ESTONIAN
100	Arberesh	115	Estonia
100	Gheg	116	LIVONIAN
100	Italo Albanian		
100	Kossovo	117-119	FINNO UGRIAN
100	Tosc	117	FINNO UGRIAN
100	1030	117	Komi
101	AZERBAIJANI	117	Mari
101	Adjerbaijani	117	Udmurt
	Azerbaidzhan	118	MORDOVIAN
101 101	Azeri	119	VOYTAK
101	A2011	113	
102	BELORUSSIAN	120-121	GRUZIIA
102	Byelorussian	120-121	Gruzinets
102	Dyelolussian	120-121	GIUZINOIO
103	BULGARIAN	122-123	GERMAN FROM RUSSIA
103	Bulgaria	122	GERMAN FROM RUSSIA
103	Bulgaro Macedonian	123	VOLGA
103	Eastern Rumelian	123	Black Sea German
103	Lastern numenan	123	Volhynian German
104-105	CARPATHO RUSYN	120	Vollighan donnan
104 100	CARPATHO RUSYN	124	ROM
104	Carpatho Rus	124	Boyash
104	Carpatho Russian	124	Call
104	Carpatho Ruthenian	124	Dom
104	CARPATHIAN	124	Gitanos
105		124	Gypsy
106	RUSYN	124	Kalderash
106	Rus	124	Luri
106	Rusin	124	Manouche
106	Rusnak	124	Nat
100	Hushak	124	Romnichal
107	RUTHENIAN	124	Senti
107 107	Ruthenia	124	Xoraxaya
107	numenia	124	Noluzuju
108	COSSACK	125-126	HUNGARIAN
108	Don Cossack	125	HUNGARIAN
108	Orenburg Cossack	125	Hungary
108	Terek Cossack	125	Szekler
108	Ural Cossack	126	MAGYAR
100			
109-110	CROATIAN	127	KALMYK
109	Croatia	127	Kalmuck
109	Dalmatian		
109-110	Zadar	128	LATVIAN
		128	Latvia
111-113	CZECH	128	Lettish
111	CZECH		
112	BOHEMIAN	129	LITHUANIAN
113	MORAVIAN	129	Jmoud
		129	Lithuania
114	CZECHOSLOVAKIAN		
114	Czechoslovakia	130	MACEDONIAN
114	Tczechoslovakia	130	Macedonia

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	100-180	EASTERN EUROPE AND SOVIET	100-180	EASTERN EUROPE AND SOVIET
		UNION—Con.		UNION-Con.
	130	Slavophone	152	SERBIAN
			152	Serb
	131	MONTENEGRIN	192	Seib
	131	Orna Gora	153	SLOVAK
			153	Slovakian
	132-141	NORTH CAUCASIAN	153	
	132	NORTH CAUCASIAN	155	Slovjak
	132	Abkhazian	154-155	
	132	Adyge		SLOVENE
	132	Avar	154	SLOVENE
	132	Caucasus Mountains	154	Slovenc
	132	Chechen	154	Slovenian
	132	Daghestan	154	Slovenski
	132		155	SORBIAN/WEND
	132	Darghinian	155	Lusatian Serb
	132	Gortsy	155	Sorb
		Ingush	155	Wend
	132	Kabardinian	155	Wendish
	132	Lezghian		
	132	Tavlintsy	156-163	SOVIET TURKIC
	133	NORTH CAUCASIAN TURKIC	156	SOVIET TURKIC
	133	Adzharian	156	Soviet Turk
	133	Balkar	157	BASHKIR
	133	Cherkess	158	CHUVASH
	133	Circassian	159	GAGAUZ
	133	Karachay	160	MESKNETIAN
	133-139	Kumyk	161-162	TUVINIAN
	140-141	OSSETIAN	163	YAKUT
	142-143	POLISH	164	SOVIET UNION
	142	POLISH	164	Union of Soviet Socialist Republics
	142	Gorali		
	142	Masurian	165-167	TATAR
	142	Poland	165	TATAR
	142	Polonia	165	Crimean Tatar
	142	Polska	165	Kazan Tatar
	143	KASHUBIAN	165	Nogay Tatar
			165	Polish Tatar
	144-147	ROMANIAN	165-166	Volga Tatar
	144	ROMANIAN	167	SOVIET CENTRAL ASIA
	144	Romania	167	Kurile Islander
	144	Transylvania	167	Sakhalin Islander
	145	BESSÁRABIAN	167	Siberian
	145	Dobruja		olocitati
	146	MOLDAVIAN	168-170	TURKESTANI
	147	WALLACHIAN	168	TURKESTANI
	147	Vlach	168	Karakalpak
			168	Kazak
	148-151	RUSSIAN	168	Kirghiz
	148	RUSSIAN	168	Tadzhik
	148	Black Russian	168	Turcoman
	148	Great Russian	168	
	148	Red Russian		Turkestani
	148	Rossiya	168	Turkmen
	148-149	Russia	168	Turkoman
r	150-151	MUSCOVITE	168	Uiger
	100-101	WUUUUUVIIE	169-170	UZBEG

100-180	EASTERN EUROPE AND SOVIET UNION-Con.	200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.
171-174	UKRAINIAN	201	ANDALUSIAN
171	UKRANIAN	202	ASTURIAN
171	Little Russian	203	CASTILLIAN
171	Malo Russian		
171	Ukraine	204-209	CATALONIAN
172	LEMKO	204	CATALONIAN
172	Lemkian	204	Catalonia
173	BIOKO	205	BALEARIC ISLANDER
174	HUSEL	205	Mallorca
		206	GALLEGO
175	WINDISH	207	VALENCIAN
175	Prekmurje	208-209	CANARY ISLANDER
175	Windisch		
		210-218	MEXICAN
176-177	YUGOSLAVIAN	210	
176	YUGOSLAVIAN	211	
176	Jugoslavia	212	MEXICANO
177	HERZEGOVINIAN	213	CHICANO
177	Bosanci	214-217	
177	Bosnian Muslim	218	MEXICAN STATE
177	Bosnjaci	218	Aguascalientes
	01.01/10	218	Baja California
178-180	SLAVIC	218	Campeche
178	SLAVIC	218	Chiapas Chihuahua
178	Slav	218 218	Coahuila
179-180	SLAVONIAN	218	Colima
181-199	EUROPE, N.E.C.	218	Distrito Federal
101-199		218	Durango
181	EUROPE, N.E.C.	218	Guanajuato
181	Central European	218	Guerrero
181-182	Middle European	218	Hidalgo
183	NORTHERN EUROPEAN	218	Jalisco
183-184	North Europe	218	Mexico
185	SOUTHERN EUROPEAN	218	Michoacan
185-186	South Europe	218	Morelos
187	WESTERN EUROPEAN	218	Nayarit
187-189	West Europe	218	Nuevo Leon
190		218	Oaxaca
190	Byzantine	218	Puebla
190	East Europe BUKOVINA	218	Queretaro
191-192	SILESIAN	218	Quintana Roo
193-194	EUROPEAN	218	San Luis Potosi
195 196	GALICIAN	218	Sinaloa
196-199	Galicia	218	Sonora
190-199		218	Tabasco
200-299	HISPANIC CATEGORIES	218	Tamaulipas
	(INCLUDING SPAIN)	218	Tlaxcala
000 000		218	Vera Cruz
200-203	SPANIARD SPANIARD	218	Yucatan
200	SPANIARD Espanda	218	Zacatecas
200	Espanola Iberian		
200	Spain	219-221	COSTA RICAN
200	opani	219	Costa Rica
		219-221	Costarricense

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	200-299		200-299	HISPANIC CATEGORIES
	000	(INCLUDING SPAIN)-Con.		(INCLUDING SPAIN)—Con.
-	222	GUATEMALAN	249	Sudamerica
	222	Guatemala		
	223		250-260	LATIN AMERICAN
	223	HONDURAN Honduras	250	LATIN AMERICAN
	223	Honduras	250	America Latina
	224	NICARAGUAN	250	Latinoamericana
	224		251	LATIN
	224	Nicaragua	252-260	LATINO
	225	PANAMANIAN	261-270	PUERTO RICAN
	225	Panama	261	Boricua
			261	Boringuena
	226	SALVADORAN	261	New York Puerto Rican
	226	El Salvador	261	Puerto Rico
	226	Salvadorian	261-270	Puertorriqueno
	227-228	CENTRAL AMERICAN	271-274	CUBAN
	227-228	Central America	271	Cuba
			271	Cubana
	229-230	CANAL ZONE	271-274	Guajiro
				GuajiiO
	231	ARGENTINEAN	275	DOMINICAN
	231	Argentine	275	Dominican Republic
			275	Dominicana
	232	BOLIVIAN	275	Santo Domingo
	232	Bolivia		•
		<b>•</b> • • • • • • • • • • • • • • • • • •	276-290	HISPANIC
	233	CHILEAN	276-290	Hispano
	233	Chile		
	~~~		291-299	SPANISH
	234	COLOMBIAN	292	CALIFORNIO
	234	Antiochio	293	TEJANO
	234	Colombia	293	Tejana
	005		294	NÚEVO MEXICANO
	235	ECUADORIAN	295-299	SPANISH AMERICAN
	235	Ecuador	000 0	
	235	Galapagos Islander	300-359	WEST INDIES (EXCEPT HISPANIC)
	236	PARAGUAYAN	300	BAHAMIAN
	236	Paraguay	300	Bahamas
	227			
	237 237	PERUVIAN	301	BARBADIAN
	201	Peru	301	Barbados
	238	URUGUAYAN	302	REI 17EAN
	238	Uruguay	302 302	BELIZEAN Belize
		-	302 302	
	239	VENEZUELAN	302	British Honduran
	239	Venezuela	303	
				BERMUDAN
	240-248	CRIOLLO	303	Bermuda
	240-248	Criolla	204-207	
			304-307	CAYMAN ISLANDER
	249	SOUTH AMERICAN	308-309	JAMAICAN
1	249	America Del Sur	308-309	Jamaica
				vuntille

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300-359	WEST INDIES (EXCEPT HISPANIC)—Con.	300-359	WEST INDIES (EXCEPT HISPANIC)—Con.
310-313	DUTCH WEST INDIES	332-334	FRENCH WEST INDIES
310	DUTCH WEST INDIES	332	FRENCH WEST INDIES
310	Black Dutch	332	French West Indian
310	Netherlands Antilles	333	GUADELOUPE ISLANDER
311	ARUBA ISLANDER	333	Martinicois
311	Bonaire Islander	333	Martinique Islander
311	Curacao Islander	334	CAYENNE
312-313	ST. MAARTEN ISLANDER	334	French Guiana
312	Saba Islander	334	French Guianese
312-313	St. Eustatius Islander	334	Guyane
314-316	TRINIDADIAN TOBAGONIAN	335	WEST INDIAN
314	TRINIDADIAN TOBAGONIAN	335	West Indies
315	TRINIDADIAN	335	Arawak
316	TOBAGONIAN	335	Caribs
		335	Caribbean
317-320 317	U.S. VIRGIN ISLANDER U.S. VIRGIN ISLANDER	335	Garifuna
318	ST. CROIX ISLANDER	336-359	HAITIAN
318	Crucian	336-359	Haiti
318	Santa Cruz		
319	ST. JOHN ISLANDER	360-399	CENTRAL AND SOUTH
320	ST. THOMAS ISLANDER		AMERICA (EXCEPT HISPANIC)
		360-364	BRAZILIAN
321-331	BRITISH WEST INDIES	360-364	Brazil
321	BRITISH VIRGIN ISLANDER		
321	Tortolan	365-369	SAN ANDRES
321	Virgin Gorda		
321	Anegada	370-374	GUYANESE
321	Jost Van Dyke	370	British Guiana
321	Peter and Norman	370-374	Guyana
322	BRITISH WEST INDIAN		
322	British West Indies	375-379	PROVIDENCIA
323	TURKS AND CAICOS ISLANDER		
324	ANGUILLA ISLANDER	380-399	SURINAM
325	ANTIGUA AND BARBUDA	380	Dutch Guiana
325	Antigua	380-399	Netherlands Guiana
325	Barbuda		
325	Redonda Islander	400-499	NORTH AFRICA AND SOUTHWEST ASIA
326			SOUTHWEST ASIA
327	KITTS-NEVIS ISLANDER	400-401	ALGERIAN
327	St. Christopoher Islander Sombrero Islander	400-401	Algeria
327 327	St. Kitts		
327	Nevis	402-403	EGYPTIAN
328		402	Copt
329	GRENADIAN	402	Egypt
329 329	Grenada Islander	402-403	Fellahin
330	VINCENT-GRENADINE ISLANDER		
330	St. Vincent Island	404-405	LIBYAN
330	Vincentian	404-405	Libya
330	Grenadines Islander		MOROCOAN
331	ST. LUCIA ISLANDER	406-407	MOROCCAN
		406	MOROCCAN
		406	Moor
		407	IFNI

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400-499	NORTH AFRICA AND SOUTHWEST ASIA—Con.	400-499	NORTH AFRICA AND SOUTHWEST ASIA-Con.
408-410	TUNISIAN	435	
408-410	Tunisia	435	YEMENI Yemen Arab Republic
411	NORTH AFRICAN	436-441	OMANI
		436	OMANI
412	ALHUCEMAS	437	MUSCAT
412	Ceuta	438	TRUCIAL STATES
412	Chafarinas	438	Trucial Oman
412	Melilla	439-440	QATAR
413	BERBER	441	BEDOUIN
		442-464	KURDISH
414	RIO DE ORO	442-443	KURDISH
414	Saguia El Hamra	444-464	KURIA MURIA ISLANDER
	-		
415	BAHRAINI	465-469	PALESTINIAN
415	Bahrain	465	PALESTINIAN
		466	GAZA STRIP
416	IRANIAN	467-469	WEST BANK
416	Iran		
416	Parsi	470-479	SOUTH YEMEN
416	Persia	470	SOUTH YEMEN
		470	Democratic Republic of Yemen
417-418	IRAQI	471-479	ADEN
417-418	Iraq		
		480-481	UNITED ARAB EMIRATES
419-420	ISRAELI	480	Abu Dhabi
419-420	Israel	480	Ajman
		480	Dubai
421-422	JORDANIAN	480	Fujairah
421	JORDANIAN	480	Ras Al Kaimah
421	Hashemite	480	Sharjah
421	Jordan	480-481	Umm Al Qaiwain
422	TRANSJORDAN		
423-424	KUWAITI	482-489	ASSYRIAN
423-424	Kuwait	482	Aramean
423-424	Nuwali	482	Assyria
425-426	LEBANESE	482	Chaldean
425	Lebanon	482	Chaldo
425-426	Maronite	482	Jacobite
420 420	Maronite	482	Kaldany
427-428	SAUDI ARABIAN	482	Kaldu
427-428	Saudi Arabia	482	Kasddem
	Saudi Arabia	482	Kasdu
429-430	SYRIAN	482	Nestorian
429	Djebel Druze	482-489	Telkeffee
429	Latakia	400 404	MIDEAOT
429-430	Syria	490-494	MIDEAST
	-	490-494	Middle Eastern
431-433	ARMENIAN	495-499	ARAB
431-433	Armenia	495	ARAB
		495	Arabia
434	TURKISH	496-499	ARABIC
434	Turkey		

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500-599	SUBSAHARAN AFRICA	500-599	SUBSAHARAN AFRICA-Con.
500-501	ANGOLAN	529	GHANIAN
500	Angola	529	Ashanti
500-501	Cabinda	529	Ghana
000 001	Gabilla	529	Gold Coast
502-503	BENIN	529	TWI
502-503 502	Dahomey	020	
	Fon	530	GUINEAN
502-503	FUII	530	Guinea
504-505	BOTSWANA	500	
		531	GUINEA BISSAU
504-505	Bechuana	551	doiner bioord
		E00 E00	IVORY COAST
506-507	BURUNDIAN	532-533	WORT COAST
506-507	Urundi	504 507	KENYAN
		534-537	• • • • • • • • • • • •
<b>5</b> 08-509	CAMEROONIAN	534-537	Kenya
508	Cameroon		
508-509	Fako	538-540	LESOTHO
	· · · · · · · · · · · · · · · · · · ·	538-540	Basuto
510-511	CAPE VERDEAN		
510	Brava	541-542	LIBERIAN
510-511	Cape Verde Islander	541-542	Liberia
512	CENTRAL AFRICAN REPUBLIC	543-544	MADAGASCAN
512	Ubangi Shari	543-544	Madagascar
513-514	CHADIAN	545	MALAWIAN
513-514	Chad	545	Malawi
515-518	CONGOLESE	546	MALIAN
515	CONGOLESE	546	Mali
516-518	CONGO BRAZZAVILLE		
		547-548	MAURITANIAN
519	DJIBOUTI	547-548	Mauritania
519	Afars And Issas		
519	Jibuti	549	MOZAMBICAN
		549	Mozambique
520-521	EQUATORIAL GUINEA		
520	EQUATORIAL GUINEA	550	NAMIBIAN
520	Rio Muni	550	Namibia
521	CORSICO ISLANDER		
521	Annobon Islander	551-552	NIGER
521	Bioko Islander		
521	Elobeis Islander	553-560	NIGERIAN
521	Fernando Po Islander	553	NIGERIAN
		553	Nigeria
522-524	ETHIOPIAN	554	FULAH
522	ETHIOPIAN	554	Fulani
522	Abyssinia	555	HAUSA
522	Ethiopia	556	IBO
523-524	ERITREAN	557	ΤΙν
		558-560	YORUBA
525-526	GABONESE		
525-526	Gabon	561-563	RWANDAN
		561-563	Rwanda
527-528	GAMBIAN		
527-528	Gambia		
JEISJEU			

500-599	SUBSAHARAN AFRICA-(	Con.	500-599	SUBSAHARAN AFRICA-Con.	
564-565 564	SENEGALESE Dakar		591	Zaire	
564-565	Senegal		592	ZAMBIAN	
			592	Zambia	
566-567	SIERRA LEONEAN				
566-567	Sierra Leone		593	ZIMBABWEAN	
		•	593	Rhodesia	
568	SOMALIAN		593	Zimbabwe	
568	Somali Republic				
568	Somalia		594-595	AFRICA ISLANDS (EXCEPT MADAGASCAR)	
569	SWAZILAND		594	AFRICA ISLANDS	
<b>53</b> 0 <b>53</b> 0			594	Comoros Islander	
570-573	SOUTH AFRICAN		594	Principe Islander	
570	SOUTH AFRICAN		594	Reunion Islander	
571	UNION OF SOUTH AFRICA		594	Sao Tome Islander	
571	Orange Free State		594	Seychelles Islander	
571	Pretoria		594	St. Helena Islander	
571	Transkei		594	St. Pierre Islander	
571	Transvaal		594	Tristan De Cunha Islander	
572	AFRIKANER		595	MAURITIAN	
572 573	Boer		595	Mauritius Islander	
575	NATALIAN			••••••••••••••••••••••••••••••	
574-575	ZULU	*	596-599	SUBSAHARAN AFRICAN, N.E.C.	
574-575 574-575	Zululand		596	CENTRAL AFRICAN	
574-575	zululand		596	Central Africa	
576-581	SUDANEOE		596	Middle Congo	
576	SUDANESE SUDANESE		597	EAST AFRICAN	
576	Sudan		597	East Africa	
577	DINKA		597 507	Galla	
578	NUER		597 507	Kikuyu	
579	FUR		597 598	Masai WEST AFRICAN	
579	Darfur		598 598		
580-581	BAGGARA		599 599	West Africa	
	BAGGAIR		599 599	AFRICAN	
582-585	TANZANIAN		599	Africa	
582	TANZANIAN		600-699	SOUTH ASIA	
582	Tanzania				
583	TANGANYIKAN		600-602	AFGHANISTAN	
584-585	ZANZIBAR ISLANDER		600	AFGHANISTAN	
			601	BALUCHISTAN	
586-587	TOGO		602	PATHAN	
586-587	Togoland				
	0		603-606	BANGLADESHI	
588	UGANDAN		603	Bangladesh	
588	Lugbara		603-606	East Pakistan	
588	Uganda		007 000		
	-		607-608	BHUTANESE	
589-590	UPPER VOLTAN		607-608	Bhotan	
589	UPPER VOLTAN		600 644		
590	VOLTA		609-614	NEPALI	
			609-614	Nepal	
591	ZAIRIAN		C1E C70		
591	Belgian Congo		615-679 615	ASIAN INDIAN	
591	Congo Kinshasa		615 615	ASIAN INDIAN	
			615	Behar	

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600-699	SOUTH ASIA—Con.	700-799	OTHER ASIA-Con.
615	Dravidian	703-705	CAMBODIAN
615	Hindu	703	CAMBODIAN
615	Indo Aryan	703	Cambodia
615	Sikh	703	Kampuchea
616-617	KASHMIR	704-705	KHMER
618-619	BENGALI		
620-621	EAST INDIAN	706-711	CHINESE
622	ANDAMAN ISLANDER	706	CHINESE
022 622-623	Nocobar Islander	706	China
	ANDHRA PRADESH	706	Jehol
624-625		706	Sino Chinese
626-627	ASSAMESE	706	Yao
628-629	GOANESE	707	CANTONESE
630-631	GUJARATI		MANCHURIA
632-633	KARNATAKAN	708	
634-635	KERALAN	709-711	MANDARIN
636-637	MADHYA PRADESH		
638-639	MAHARASHTRAN	712-713	MONGOLIAN
640-641	MADRAS	712	Buriat
642-643	MYSORE	712-713	Mongolia
644-645	NAGALAND		
646-647	ORISSA	714-715	TIBETAN
648-649	PONDICHERRY	714-715	Tibet
650-651	PUNJAB		
652-653	RAJASTHAN	716-717	HONG KONG
654-655	SIKKIM	716	Hong Kong Chinese
656-657	TAMIL NADU	716	Eastern Archipelago
658-674	UTTAR PRADESH	716-717	Riau Islander
675-679	EAST INDIES		
		718-719	MACAO
680-689	PAKISTANI		
680	Jammu	720-729	FILIPINO
680	Pakistan	720	Cebuanos
680	Sind	720	Philippines
680-689	West Pakistan	720-729	Tagalog
690-694	SRI LANKAN	730-739	INDONESIAN
690	SRI LANKAN	730	INDONESIAN
690	Ceylon	730	Ascension Islander
690	Sri Lanka	730	Bangka
691	SINGHALESE	730	Billiton
692-694	VEDDAH	730	Celebes Islander
		730	Dutch East Indian
695-699	MALDIVIAN	730	Indonesia
695	Kampuchean	730	Molucca Islander
695-699	Maldive Islander	730	Portuguese Timor
030-033	Malaro Islando.	730	Spice Islander
700-799	OTHER ASIA	730-731	Sulawesi Islander
		732-733	BORNEO
700-702	BURMESE	734-735	JAVA
700	BURMESE	736-739	SUMATRA
700	Cachin		_
700	Karen	740-745	JAPANESE
700	Mon	740	JAPANESE
700-701	Palaung	740	Japan
702	SHAN	740	Nipponese
		740	ISSEI
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700-799	OTHER ASIA—Con.	700-799	OTHER ASIA-Con.
742	NISEI	785-789	VIETNAMESE
743	SANSEI	785	VIETNAMESE
744	YONSEI	785	Anam
745	GONSEI	785	Vietnam
		786	KATU
746-747	RYUKYU ISLANDER	787	MA
746-747	Northern Ryukyu Islander	788-789	MNONG
748-749	OKINAWAN	790-791	MONTAGNARD
748-749	Okinawa	790-791	Cham
750-764	KOREAN	792	INDO CHINESE
750	Chosen	792	Indochina
750-764	Korea		
		793	EURASIAN
765-767	LAOTIAN	793	Indoeuropean
765	LAOTIAN		
765	Lao	794	AMERASIAN
765	Laos		
766-767	MEO	795-799	ASIAN
		795	Asia
768-769	HMONG	795-799	Orient
768	Hmongtana		Chich
768	Laohmong	800-899	PACIFIC
768-769	Mong		
		800-802	AUSTRALIAN
770	MALAYSIAN	800	AUSTRALIAN
770	Malaysia	800	Australia
770	Sakai	800	New South Wales
770	Semang	800	Northern Territory
770	Senoi	800	Queensland
		800	Victoria
771-773	NORTH BORNEO	801	TASMANIAN
771	Brunei	802	AUSTRALIAN ABORIGINE
771	Sabah		
771-773	Sarawak	803-807	NEW ZEALANDER
		803-807	New Zealand
774-775	SINGAPOREAN	808-810	POLYNESIAN
774-775	Singapore	808	POLYNESIAN
		808	Norfolk Islander
776-781	THAI	809	KAPINGAMARANGAN
776	THAI	809	Nukuoroan
776	Siam	810	MAORI
776	Thailand	010	
777	BLACK THAI	811-813	
777	Thai Dam		HAWAIIAN
778-781	WESTERN LAO	811	HAWAIIAN
		811	Mixed Hawaiian
782	TAIWANESE	811-812	Native Hawaiian
782	Taiwan	813	PART HAWAIIAN
783-784	FORMOSAN	814, 861	SAMOAN
783-784	Formosa	814	SAMOAN
100-104	FUTHUSa	814	Samoa
		861	PART-SAMOAN





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800-899	PACIFIC—Con.	800-899	PACIFIC—Con.
815	TONGAN	830	Satawalese
815	Tonga	830	Ulithian
015	ronga	830	Wolealan
816	TOKELAUAN	~~~	11010alari
816	Tokelau Islander	831	KIRIBATESE
010		831	Gilbertese
817	COOK ISLANDER		
017		832-833	NAURUAN
818	TAHITIAN	832	NAURUAN
818	French Polynesia	833	TARAWA ISLANDER
818	Society Islander		
010	Obliety Islander	834-839	TINIAN
819	NIUEAN	004-003	
013	NIGEAN	840	MELANESIAN
820	MICRONESIAN	040	
820	Micronesia Islander	841-842	FIJIAN
820	U.S. Trust Territory of the Pacific	841-842	Fiji
020	0.5. Hust remoty of the racine	041-042	
821-822	GUAMANIAN	843-844	NEW GUINEAN
821-822	GUAMANIAN	843	NEW GUINEAN
821	Guam	844	PAPUAN
822	CHAMORRO ISLANDER	011	174 0744
022		845	SOLOMON ISLANDER
823	SAIPANESE	845	British Solomons
823	Northern Marianas Islander	0.0	
823	Saipan Islander	846	NEW CALEDONIAN
020	oupur louidor	0.0	
824	PALAUAN	847-849	VANUATUAN
02 (		847	New Hebrides Islander
825	MARSHALLESE	847-849	Ni Vanuatu
825	Marshall Islander		
020		850-859	PACIFIC ISLANDER
826	KOSRAEAN	850	Campbell Islander
020		850	Christmas Islander
827	PONAPEAN (POHNPEIAN)	850	Kermadec Islander
827	Mokilese	850	Midway Islander
827	Ngatikese	850	Phoenix Islander
827	Pingelapese	850-859	Wake Islander
027	- ingolapooo		
828	TRUKESE (CHUUKESE)	860	PACIFIC
828	Hall Islander	860	Oceania
828	Mortlockese		
828	Namanouito	861	See SAMOAN (code 814)
828	Pulapese		
828	Pulasukese	862	CHAMOLINIAN
828	Pulawatese		
828	Tamatamian	863-899	RESERVE CODE
828	Ulul	864	<b>RESERVE CODE 1</b>
020	0.0.	865	<b>RESERVE CODE 2</b>
829	YAPESE	866	<b>RESERVE CODE 3</b>
~_~		867	RESERVE CODE 4
830	CAROLINIAN	868	RESERVE CODE 5
830	Eauripikese	869	RESERVE CODE 6
830	Faisian	870	RESERVE CODE 7
830	Ifalukese	871	RESERVE CODE 8
830	Lamotrekese	872	RESERVE CODE 9
000		V/ L	

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CODE LISTS

	800-899	PACIFIC—Con.	900-994	NORTH AMERICA (EXCEPT
	873	<b>RESERVE CODE 10</b>		HISPANIC)—Con.
	874	RESERVE CODE 11	925	ANGLO
	875	RESERVE CODE 12	925	Swamp Yankee
	876	RESERVE CODE 13	925-926	•
	877	RESERVE CODE 14		Wasp
	878		927	APPALACHIAN
		RESERVE CODE 15	927	Hillbilly
	879	RESERVE CODE 16	928	ARYAN
	880	RESERVE CODE 17		
	881	RESERVE CODE 18	929	PENNSYLVANIA GERMAN
	882	RESERVE CODE 19	929	Amish
	883	RESERVE CODE 20	929	Pennsylvania Dutch
	884	RESERVE CODE 21	929	Mennonite
	885	RESERVE CODE 22	929	Hutterite
	886	RESERVE CODE 23	020	i iulieine
	887	RESERVE CODE 24	000	
	888		930	GREENLANDER
		RESERVE CODE 25		
	889	RESERVE CODE 26	931-934	CANADIAN
	890	<b>RESERVE CODE 27</b>	931	CANADIAN
	891	RESERVE CODE 28	931	Albertan
	892	RESERVE CODE 29	931	British Columbia
	893	RESERVE CODE 30	931	Canada
	894	RESERVE CODE 31	931	Labrador
	895	RESERVE CODE 32	931	Manitoba
	896	RESERVE CODE 33	931	
	897	RESERVE CODE 34		New Brunswick
	898		931	Ontario
		RESERVE CODE 35	931	Prince Edward Islander
	899	RESERVE CODE 36	931	Saskatchewan
	000 004		931-932	Yukon
	900-994	NORTH AMERICA (EXCEPT	933	NEWFOUNDLAND
		HISPANIC)	934	NOVA SCOTIA
	900-912	AFRICAN AMERICAN		
	900	AFRO AMERICAN	935	FRENCH CANADIAN
	901	AFRO	935	Canadien
	902	AFRICAN AMERICAN	935	Franco American
			935	
	903	BLACK	935	Quebec
	904	NEGRO	900	Quebecois
	905	NONWHITE		
	906	COLORED	936-938	ACADIAN/CAJUN
	906	Bilalian	936	ACADIAN
	906	Nigritian	936	Acadia
	907	CREOLE	937-938	CAJUN
	908-912	MULATTO		
			939	AMERICAN
	913-923	NATIVE AMERICAN		
	913		940-992	UNITED STATES
		CENTRAL AMERICAN INDIAN	940	
	914-918	SOUTH AMERICAN INDIAN	941	UNITED STATES
	919	CHEROKEE	- · ·	ALABAMA
	920	AMERICAN INDIAN	942	ALASKA
	921	ALEUT	943	ARIZONA
	922	ESKIMO	944	ARKANSAS
	923	INUIT	945	CALIFORNIA
			946	COLORADO
	924-928	WHITE	947	CONNECTICUT
	924	WHITE	948	DISTRICT OF COLUMBIA
	924 924	_	949	DELAWARE
-	JL7	Caucasian	950	
			300	FLORIDA

900-994	NORTH AMERICA (EXCEPT HISPANIC)Con.	995-999	RESIDUAL AND NO RESPONSE
	mor Ano, con.	995	MIXTURE
951	IDAHO	996-997	UNCODABLE ENTRIES
952	ILLINOIS	998	OTHER RESPONSES
953	INDIANA	998	Adventist
954	IOWA	998	Agnostic
955	KANSAS	998	Apostolic
956	KENTUCKY	998	Ashkenazim Jew
957	LOUISIANA	998	Atheist
958	MAINE	998	Bahai
959	MARYLAND	998	Baptist
960	MASSACHUSETTS	998	Brethren
961	MICHIGAN	998	Buddhist
962	MINNESOTA	998	Catholic
963	MISSISSIPPI	998	Christian
964	MISSOURI	998	Christian Scientist
965	MONTANA	998	Congregationalist
966	NEBRASKA	998	Episcopal
967	NEVADA	998	Evangelist
968	NEW HAMPSHIRE	998	Hebrew
969	NEW JERSEY	998	Holiness
970	NEW MEXICO	998	Islam
971	NEW YORK	998	Jain
972	NORTH CAROLINA	998	Jehovahs Witnesses
973	NORTH DAKOTA	998	Jewish
974-975	OHIO	998	Latter Day Saints
976	OKLAHOMA	998	Lutheran
977	OREGON	998	Methodist
978	PENNSYLVANIA	998	Mormon
979	RHODE ISLAND	998	Muslim
980	SOUTH CAROLINA	998	Orthodox
981	SOUTH DAKOTA	998	Pentecostal
982	TENNESSEE	998	Presbyterian
983	TEXAS	998	Protestant
984	UTAH	998	Quaker
985	VERMONT	998	Roman Catholic
986	VIRGINIA	998	Salvation Army
987	WASHINGTON	998	Sephardic
988	WEST VIRGINIA	998	Seventh Day Adventist
989	WISCONSIN	998	Shiite
990	WYOMING	998	Unitarian
991-992	GEORGIA	998	Yiddish
		998	Zoroastrian
993	SOUTHERNER	999	NOT REPORTED
994	NORTH AMERICAN		
994	North America		

### **GROUP QUARTERS**

This section contains the alphabetical code list for group quarters. The group quarters code list was used by special place prelist enumerators to classify each type of group quarters. Each group quarters code is a two-digit number followed by either an "I" (institutional) or "N" (noninstitutional) suffix. The group quarters codes listed in the second column are for staff residing in group quarters.

GQ codes	Staff residents GQ codes	
87-N		A. College Quarters Off Campus (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
		B. Correctional Institutions
22-1	22-N	<ol> <li>Federal Detention Centers: Including Park Police, Bureau of Indian Affairs, Immigration and Naturalization Service (INS) centers, INS detention centers operated within local jails, and State and Federal prisons. INS detention centers also include INS Federal Alien Detention Facilities, INS Service Processing Centers, and INS Contract Detention Centers used to detain aliens under exclusion or deportation proceedings and aliens who require custodial departures.</li> </ol>
21-1	21-N	<ol> <li>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 according to para- graph H4. For detention centers within Federal prisons, see B1 above.</li> </ol>
23-1	23-N	<ol> <li>Halfway Houses: Operated for correctional purposes, including probation and restitution centers, prerelease centers, and community-residential treatment centers.</li> </ol>
27-l	27-N	<ol> <li>Local (County/City) Jails and Other Local Confinement Facilities: Including work farms used to hold persons awaiting trial or serving time on relatively short sentences (usually of a year or less), and jails run by private businesses under contract.</li> </ol>
95-l	95-N	5. Military Stockades, Jails
28-1	28-N	<ol> <li>Police Lockups: Temporary-holding facilities or other facilities that hold persons only if they have not been formally charged in court (usually detained less than 48 hours).</li> </ol>
24-1	24-N	<ol> <li>State Prisons: Prisons run by private businesses (under contract); including criminally insane wards operated by a State prison within a mental or general hospital. If ward is not operated by a prison, code according to paragraph H4.</li> </ol>
20-I	20-N	<ol> <li>Other Types of Correctional Institutions: Including private correctional facilities and correctional facilities specifically for alcohol/drug abuse. (Use only as a last resort if no other type code applies.)</li> </ol>
91-N		C. Crews of Civilian Vessels
		D. Dormitories
92-N		<ol> <li>Agriculture Workers' Dormitories on Farms: Including migratory farm workers' camps on farms, bunkhouses for ranch hands, and other dormitories on farms including those on "tree farms."</li> </ol>
87-N		<ol> <li>College Student Dormitories, and Fraternity and Sorority Houses (on campus): Including residential quarters for those in religious orders.</li> </ol>
86-N		3. Dormitories for Nurses and Interns in General and Military Hospitals
97-N		<ol> <li>Military Quarters on Base: Including barracks, bachelor officers quarters, unaccompanied officer personnel housing, unaccompanied enlisted personnel housing, and similar noninstitutional group living quarters for military personnel.</li> </ol>
93-N		<ol> <li>Other Workers' Dormitories: Including logging camps, construction workers' camps, fire- house dormitories, job-training camps, energy enclave (Alaska only), Alaskan pipeline camps, nonfarm migratory workers' camps, such as workers who lay oil and gas pipelines.</li> </ol>
		<ol> <li>Runaway, Neglected, and Homeless Children: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.</li> </ol>



CODE LISTS

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GQ	Staff residents	
codes	GQ codes	E. Elderly: Skilled nursing facilities, intermediate care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, nursing, convalescent, and rest homes including soldiers', sallors', veterans', and fraternal or religious homes for the aged, with or without nursing care.
		NOTE: Do not include dormitories for nurses' and interns'; see paragraph D3.
		1. Public Ownership
<b>62-</b> I	62-N	a. Federal ownership: Including Veterans' Administration, domiciliary homes, and U.S. Naval homes.
<b>63</b> -l	63-N	b. State ownership
64-l	64-N	c. County or city ownership
<b>65-</b> I	65-N	<ul> <li>d. Don't know if Federal, State, or county-city ownership (Use only as a last resort if no other type code applies.)</li> </ul>
		2. Private Ownership
66-l	66-N	a. Private not-for-profit
67-l	67-N	b. Private for profit
60-l	60-N	c. Don't know if for profit or not (Use only as a last resort if no other type code applies.)
61-l	61-N	<ol> <li>Don't Know if Federal, State, Local, or Private Ownership (Use only as a last resort if no other type code applies.)</li> </ol>
		F. Emergency Shelter/Street Night Enumeration ("S-NIGHT")
82-N		<ol> <li>Shelters for the Homeless with Sleeping Facilities: Including emergency housing, mis- sions and flophouses, Salvation Army shelters, hotels and motels charging \$12 or less a night (excluding taxes), hotels and motels used entirely for homeless persons, the group of rooms in hotels and motels used partially for the homeless, and similar places known to have persons with no usual home elsewhere who stay overnight.</li> </ol>
83-N		<ol> <li>Runaway, Neglected, and Homeless Children: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles.</li> </ol>
		3. Street Enumeration – Predesignated Sites
84-N		<ul> <li>Nonstructure locations, other than commerce places: Including street corners, parks, bridges, abandoned and boarded-up buildings, noncommercial campsites ("tent cities"), and similar sites.</li> </ul>
85-N		<ul> <li>b. Commerce places: Including railroad stations, airports, bus depots, subway stations, all-night movie theaters, all-night restaurants, emergency hospital waiting rooms, and other similar predesignated sites.</li> </ul>
75-N		4. Shelters for Abused Women (Shelters against domestic violence)
		G. Group Homes: Including those providing community-based care and supportive services such as halfway houses for the groups listed below. (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
76-N		<ol> <li>Drug/Alcohol Abuse: Including group homes, detoxification centers, quarterway houses such as residential treatment facilities that work closely with an accredited hospital, halfway houses, recovery homes for ambulatory, and mentally competent recovering alcoholics who may be re-entering the work force. (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.)</li> </ol>
29-N		<ol> <li>Maternity (Homes for unwed mothers) (Ask usual home elsewhere in these places. In- clude as living there only persons who have no usual home elsewhere.)</li> </ol>
		3. Mentally III
16-N		a. Federal
17-N		b. State
18-N		c. Private
19-N		<ul> <li>d. Don't know if public/private ownership (Use only as a last resort if no other type code applies.)</li> </ul>
⊢18		CODE LISTS

	GQ codes	Staff residents GQ codes	
			G. Group Homes—Con.
			4. Mentally Retarded
7	56-N		a. Federal
	57-N		b. State
	58-N		c. Private
	59-N		<ul> <li>d. Don't know if public/private ownership (Use only as a last resort if no other type code applies.)</li> </ul>
			5. Physically Handicapped
	72-N		a. Public ownership
	73-N		b. Private ownership
	74-N		<ul> <li>c. Don't know if public/private ownership (Use only as a last resort if no other type code applies.)</li> </ul>
			<ol> <li>Runaway, Neglected, and Homeless Children: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.</li> </ol>
	79-N		7. Other Group Homes: Including communes, foster care homes and job corps centers with 10 or more unrelated children. Do not include emergency housing for persons with no other home. See paragraph F1. (Use only as a last resort if no other type code applies.)
			H. Hospitals/Schools for the Handicapped
	86-N		1. Dormitories for Nurses and Interns in General and Military Hospitals
	70-I	70-N	2. Drug/Alcohol Abuse: Including hospitals, and hospital wards in psychiatric and general hospitals. These facilities/wards are in a medical setting equipped and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical/nursing care from a formally trained staff. For group homes, see paragraph G.
			3. Hospitals for Chronically III
	54-l	86-N	a. Military hospitals or wards for chronically ill
	55-1	86-N	b. Other hospitals or wards for chronically ill: Including tuberculosis hospitals or wards, wards in general and Veterans' Administration hospitals for the chronically ill, neurological wards, hospices; wards for patients with Hansen's Disease (leprosy) and other incurable diseases; and other unspecified wards for the chronically ill. Do not include mental or alcohol/drug abuse hospitals or wards.
			4. Mentally III (Psychiatric): Hospitals or wards, including wards for the criminally insane not operated by a prison and psychiatric wards of general hospitals and veterans' hospitals. This is a medical setting designed for the treatment of mental illness. Patients receive supervised and medical/nursing care from a formally trained staff. Code wards for the mentally retarded according to paragraph H5. Do not include hospitals or wards for alcohol/drug abuse; see paragraph H2.
	46-l	46-N	a. Federal ownership
	47-l	47-N	b. State or local ownership
	48-i	48-N	c. Private ownership
	45-l	45-N	<ul> <li>d. Don't know if Federal, State, local, or private ownership (Use only as a last resort if no other type code applies.)</li> </ul>
			<ol> <li>Mentally Retarded: Schools, hospitals, wards, including wards in hospitals for the mentally ill, and intermediate care facilities for the mentally retarded. This is in a suitably- equipped setting and with supervised and medical/nursing care from a formally trained staff.</li> </ol>
	41-l	41-N	a. Federal ownership
	43-l	43-N	b. State or local ownership

GQ codes	Staff residents GQ codes	
	04.0000	H. Hospitals/Schools for the Handicapped—Con.
42-l	42-N	c. Private ownership
40-l	40-N	<ul> <li>d. Don't know if Federal, State, local, or private ownership (Use only as a last resort if no other type code applies.)</li> </ul>
		<ol> <li>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.</li> </ol>
		a. Institutions for the deaf
38-I	38-N	(1) Public ownership
39-1	39-N	(2) Private ownership
37-l	37-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		b. Institutions for the blind
35-l	35-N	(1) Public ownership
36-I	36-N	(2) Private ownership
34-1	34-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		c. Orthopedic wards and institutions for physically handicapped: Including accident vic- tims, and persons with polio, cerebral paisy, and muscular dystrophy.
32-l	32-N	(1) Public ownership
33-I	33-N	(2) Private ownership
31-l	31-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
53-l	86-N	<ol> <li>Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere: Including maternity, neonatal, pediatric (including wards for boarder babies), military, surgical wards, and other purpose wards of hospitals and wards for infectious diseases.</li> </ol>
		Note: Do not include long-term care rooms for the elderly in wards or buildings on the grounds of hospitals, see paragraph E.
		I. Hotels/Motels: "S-Night" locations, see paragraph F.
		J. Juvenile Institutions: Including homes, schools, and hospitals.
		1. Long-Term Care (length of stay usually more than 30 days)
		a. Neglected, abused, and dependent children: Including orphanages, homes, or residential care.
03-l	03-N	(1) Public ownership
04-l	04-N	(2) Private ownership
02-I	02-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
05-l	05-N	<ul> <li>Emotionally disturbed children: Including residential treatment centers (psychiatric care provided).</li> </ul>
		<ul> <li>c. Delinquent children: Placed by court, parents, or social service agency, in residential training school or home, including industrial schools, camps, or farms.</li> </ul>
12-l	12-N	(1) Public ownership: Committed by courts.
15-l	15-N	(2) Private ownership: Some are committed by courts, others are referred by parents or social service agencies because of delinquent behavior.
11-1	11-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)

GQ codes	Staff residents GQ codes	
		J. Juvenile Institutions: Including homes, schools, and hospitals-Con.
		2. Short-term (length of stay usually 30 days or less)
10-l	10-N	a. Delinquent children: Including those receiving temporary care in detention or diagnostic centers pending court disposition of case.
		<ul> <li>Runaway, neglected, and homeless children: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.</li> </ul>
01-l	01-N	<ol> <li>Don't Know Type of Juvenile Institution: Including homes, schools, hospitals, or wards for children. (Use only as a last resort if no other type code applies.)</li> </ol>
		K. Military Quarters
		1. On Base
97-N		<ul> <li>Barracks, bachelor officers quarters, unaccompanied officer personnel housing, un- accompanied enlisted personnel housing, and similar noninstitutional group living quarters for military personnel</li> </ul>
96-N		b. Transient quarters (noninstitutional) for temporary residents (military or civilian)
86-N		c. Dormitories for nurses and interns in general military hospitals
54-1	86-N	d. Hospitals or wards for chronically ill
95-l	95-N	e. Stockades and jails
98-N		2. Military Ships
90-N		L. Natural Disaster: Including those temporarily displaced by a natural disaster, such as "Hurricane Hugo."
89-N	-	M. Religious Group Quarters: Including convents, monasteries, and rectories. Members of religious orders who live in a dormitory at a hospital or college were classified according to the type of place where they live, such as 86-N if at a general hospital, or 87-N if at a college. (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
80-N		N. Rooming and Boarding Houses (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
		O. Schools for the Handicapped: See paragraphs H5 and H6.
		P. Shelter/Street Night Enumeration ("S-Night"): See paragraph F.
94-N		<b>Q. Other Nonhousehold Living Situations</b> : Including places not covered by other GQ codes shown herein, such as commercial or public campgrounds, campgrounds at racetracks, fairs, and carnivals, hostels, and similar transient sites. (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.)
		R. Staff of Institutions: Including staff personnel residing in group quarters. Code according to the appropriate type of group quarters shown under the column "Staff residents GQ codes." Staff residents are coded with an "N" suffix.
		Note: Do not assign GQ codes to staff residents in group quarters where a "" is shown.

**⊢21** 

#### **HISPANIC ORIGIN**

This section contains the code list used to code write-in entries for the Hispanic origin question. A set of threedigit numerical codes was used to identify FOSDIC circles for the Hispanic origin categories listed in the Hispanic origin item on the questionnaire. These codes and their respective Hispanic origin categories are: Not Spanish/Hispanic-001, Mexican-002, Puerto Rican-003, Cuban-004, and Other Spanish/Hispanic-005. For sample (long-form) questionnaires, a separate set of three-digit numerical codes was used to code write-in entries provided by respondents to the "Yes, other Spanish/Hispanic" category of the Hispanic origin item. The list of origins with their associated three-digit codes is shown below. "n.e.c." is the abbreviation for not elsewhere classified.

000-001, 006-199	NOT SPANISH/HISPANIC	231-249	SOUTH AMERICAN_Con.
		234	Colombian
000-001	Not Spanish/Hispanic (FOSDIC circle)	235	Ecuadorian
006-199	Not Spanish/Hispanic	236	Paraguayan
		237	Peruvian
200-209	SPANIARD	238	Uruguayan
200	Spaniard	239	Venezuelan
201	Andalusian	240	Reserve Spanish/Hispanic 6
202	Asturian	241	Reserve Spanish/Hispanic 7
203	Castillian	242	Reserve Spanish/Hispanic 8
204	Catalonian	243	Reserve Spanish/Hispanic 9
205	Balearic Islander	244	Reserve Spanish/Hispanic 10
206	Gallego	245	Reserve Spanish/Hispanic 11
207	Valencian	246	Reserve Spanish/Hispanic 12
208	Canarian	247	South American Indian
209	Spanish Basque	248	Criollo
	- F	249	South American
002, 210-220	MEXICAN		
002	Moving (EOSDIC circle)	250-260	LATIN AMERICAN
210	Mexican (FOSDIC circle) Mexican	250	Latin American
210	Mexican American	251	Latin
212	Mexicano	252	Latino
212	Chicano	253	Reserve Spanish/Hispanic 13
213	La Raza	254	Reserve Spanish/Hispanic 14
214	Mexican American Indian	255	Reserve Spanish/Hispanic 15
215		256	Reserve Spanish/Hispanic 16
	Reserve Spanish/Hispanic 1	257	Reserve Spanish/Hispanic 17
217 218	Reserve Spanish/Hispanic 2 Mexico	258	Reserve Spanish/Hispanic 18
219		259	Reserve Spanish/Hispanic 19
219	Reserve Spanish/Hispanic 3 Reserve Spanish/Hispanic 4	260	Reserve Spanish/Hispanic 20
220			
221-230	CENTRAL AMERICAN	003, 261-270	PUERTO RICAN
221	Costa Rican	003	Puerto Rican (FOSDIC circle)
222	Guatemalan	261	Puerto Rican
223	Honduran	262	Reserve Spanish/Hispanic 21
224	Nicaraguan	263	Reserve Spanish/Hispanic 22
225	Panamanian	264	Reserve Spanish/Hispanic 23
226	Salvadoran	265	Reserve Spanish/Hispanic 24
227	Central American	266	Reserve Spanish/Hispanic 25
228	Central American Indian	267	Reserve Spanish/Hispanic 26
229	Canal Zone	268	Reserve Spanish/Hispanic 27
230	Reserve Spanish/Hispanic 5	269	Reserve Spanish/Hispanic 28
		270	Reserve Spanish/Hispanic 29
231-249	SOUTH AMERICAN		
231	Argentinean		
232	Bolivian		

CODE LISTS

233

Chilean

### 004, 271-274 CUBAN

004	Cuban (FOSDIC circle)
271	Cuban
272	Reserve Spanish/Hispanic 30
273	Reserve Spanish/Hispanic 31
274	Reserve Spanish/Hispanic 32

### 275-289 DOMINICAN

275	Dominican
276	Reserve Spanish/Hispanic 33
277	Reserve Spanish/Hispanic 34
278	Reserve Spanish/Hispanic 35
279	Reserve Spanish/Hispanic 36
280	Reserve Spanish/Hispanic 37
281	Reserve Spanish/Hispanic 38
282	Reserve Spanish/Hispanic 39
283	Reserve Spanish/Hispanic 40
284	Reserve Spanish/Hispanic 41
285	Reserve Spanish/Hispanic 42

## 275-289 DOMINICAN-Con.

286	Reserve Spanish/Hispanic 43
287	Reserve Spanish/Hispanic 44
288	Reserve Spanish/Hispanic 45
289	Reserve Spanish/Hispanic 46

## 005, 290-999 OTHER SPANISH/HISPANIC

005	Other Spanish/Hispanic (FOSDIC circle)
290	Hispanic
291	Spanish
292	Californio
293	Tejano
294	Nuevo Mexicano
295	Spanish American
296	Spanish American Indian
297	Meso American Indian
298	Mestizo
299-999	Other Spanish/Hispanic, n.e.c.

#### INDUSTRY

The list presents the industrial classification developed for the 1990 Census of Population and Housing. There are 235 categories for the employed, with 1 additional category for the experienced unemployed, and 7 additional categories for the Armed Forces. These categories are aggregated into 13 major groups. The classification is developed from the 1987 Standard Industrial Classification. "n.e.c." is the abbreviation for not elsewhere classified.

### 000-039 AGRICULTURE, FORESTRY, AND FISHERIES

000-010	Agricultural production, crops (01)	
011	Agricultural production, livestock (02)	
012	Veterinary services (074)	
013-020	Landscape and horticultural services (078)	
021-030	Agricultural services, n.e.c. (071, 072, 075, 076)	
031	Forestry (08)	
032-039	Fishing, hunting, and trapping (09)	

#### 040-059 MINING

040	Metal mining (10)
041	Coal mining (12)
042	Oil and gas extraction (13)
043-059	Nonmetallic mining and quarrying, except fuel (14)

#### 060-099 CONSTRUCTION (15, 16, 17)

#### 100-399 MANUFACTURING

100-229 Nondurable Goods

100-129	Food and kindred products
100	Meat products (201)
101	Dairy products (202)
102-109	Canned, frozen and preserved fruits and vegetables (203)
110	Grain mill products (204)
111	Bakery products (205)
112-119	Sugar and confectionery products (206)
120	Beverage industries (208)
121	Miscellaneous food preparations and kindred products (207, 209)
122-129	Not specified food industries
130-131	Tobacco manufactures (21)
132-150	Textile mill products
132-139	Knitting mills (225)
140	Dyeing and finishing textiles, except wool and knit goods (226)
141	Carpets and rugs (227)
142-149	Yarn, thread, and fabric mills (221-224, 228)
150	Miscellaneous textile mill products (229)
151-159	Apparel and other finished textile products
151	Apparel and accessories, except knit (231-238)
152-159	Miscellaneous fabricated textile products (239)

160-170	Paper and allied products
160	Pulp, paper, and paperboard mills (261-263)
161	Miscellaneous paper and pulp products (267)
162-170	Paperboard containers and boxes (265)

100-399	MANUFACTURING-Con.
171-179	Printing, publishing, and allied industries
171	Newspaper publishing and printing (271)
172-179	Printing, publishing, and allied industries, except newspapers (272-279)
180-199	Chemicals and allied products
180	Plastics, synthetics, and resins (282)
181	Drugs (283)
182-189 190	Soaps and cosmetics (284)
190	Paints, varnishes, and related products (285)
192-199	Agricultural chemicals (287)
102 100	Industrial and miscellaneous chemicals (281, 286, 289)
200-209	Petroleum and coal products
200	Petroleum refining (291)
201-209	Miscellaneous petroleum and coal products (295, 299)
210-219	Rubber and miscellaneous plastics products
210	Tires and inner tubes (301)
211	Other rubber products, and plastics footwear and belting (302-306)
212-219	Miscellaneous plastics products (308)
220-229	Leather and leather products
220	Leather tanning and finishing (311)
221	Footwear, except rubber and plastic (313, 314)
222-229	Leather products, except footwear (315-317, 319)
230-399	Durable Goods
230-241	Lumber and wood products, except furniture
230	Logging (241)
231	Sawmills, planing mills, and millwork (242, 243)
232-240	Wood buildings and mobile homes (245)
241	Miscellaneous wood products (244, 249)
242-249	Furniture and fixtures (25)
250-269	Stone, clay, glass, and concrete products
250	Glass and glass products (321-323)
251	Cement, concrete, gypsum, and plaster products (324, 327)
252-260	Structural clay products (325)
261	Pottery and related products (326)
262-269	Miscellaneous nonmetallic mineral and stone products (328, 329)
270-309	Metal industries
270	Blast furnaces, steelworks, rolling and finishing mills (331)
271	Iron and steel foundries (332)
272-279	Primary aluminum industries (3334, part 334, 3353-3355, 3363, 3365)
280 281	Other primary metal industries (3331, 3339, part 334, 3351, 3356, 3357, 3364, 3366, 3369, 339)
282-289	Cutlery, handtools, and general hardware (342)
290	Fabricated structural metal products (344) Screw machine products (345)
291	Metal forgings and stampings (346)
292-299	Ordnance (348)
300	Miscellaneous fabricated metal products (341, 343, 347, 349)
301-309	Not specified metal industries

**⊢25** 

310.339       Machinery and computing equipment         310       Engines and turbines (351)         311       Farm machinery and equipment (352)         312.319       Construction and material handling machines (353)         322.330       Computers and related equipment (3571.3577)         321       Mataboxing machines (353, 356, 356, 359)         322.330       Not specified machinery         340.350       Electrical machinery, equipment, and supplies         341       Radio.Tv, and communication equipment (355, 366)         342.349       Electrical machinery, equipment, and supplies, n.c. (361, 362, 364, 367, 369)         342.349       Electrical machinery, equipment, and supplies, n.c. (361, 362, 364, 367, 369)         351.370       Transportation equipment         351.370       Transportation equipment (371)         352.389       Alcraft and parts (372)         360       Ship and boat building and repairing (373)         371.389       Professional and photographic equipment, and watches         372.379       Medical faunt, and colorwake and equipment (374, 327, 343, 385)         381.389       Watches, elocks, and elockwork oparated devices (387)         372.379       Modical, feand, and optical instruments and supplies (327, 344, 385)         371.389       Professional and photographic equipment and supplies (327, 3	100-399	MANUFACTURING—Con.	
340       Household appliances (983)         341       Radic, TV, and communication equipment (365, 366)         342-349       Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)         351-370       Transportation equipment         351       Motr vehicles and motor vehicle equipment (371)         352-359       Aircraft and parts (372)         360       Ship and boat building and repairing (373)         361       Railroad locomotives and equipment (374)         362-369       Guided missiles, space vehicles, and parts (376)         371-389       Professional and photographic equipment (374)         362-369       Guided missiles, space vehicles, and parts (376)         371-389       Professional and photographic equipment, and watches         371       Scientific and controlling instruments (381, 382 except 3827)         372-379       Medical, dental, and optical instruments (381, 382 except 3827)         372-379       Medical, dental, and optical instruments (384)         381       389         381-389       Watches, clocks, and clockwork operated devices (387)         390       Toys, amusement, and sporting goods (394)         391       Miscellaneous manufacturing Industries         400-499       Transportation         400       Raitroads (40)	310 311 312-319 320 321 322-330 331	Engines and turbines (351) Farm machinery and equipment (352) Construction and material handling machines (353) Metalworking machinery (354) Office and accounting machines (3578, 3579) Computers and related equipment (3571-3577) Machinery, except electrical, n.e.c. (355, 356, 358, 359)	
351       Motor vehicles and motor vehicle equipment (371)         352:359       Aircraft and parts (372)         360       Ship and boat building and repairing (373)         361       Railroad locomotives and equipment (374)         362:369       Guidded missiles, space vehicles, and parts (376)         370       Cycles and miscellaneous transportation equipment (375, 379)         371:389       Professional and photographic equipment, and watches         371       Scientific and controlling instruments (381, 382 except 3827)         372:379       Medical, dental, and optical instruments and supplies (386)         381:389       Watches, clocks, and clockwork operated devices (387)         390       Toys, amusement, and sporting goods (394)         391       Miscellaneous manufacturing industries         400-499       TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES         400-439       Transportation         400       Railroads (40)         401       Bus service (412)         411       Warehousing and storage (422)         412:419       U.S. Postal Service (43)         420       Water transportation (44)         421       Ar transportation (45)         422:431       Pipe lines, except natural gas (46)         422:439       Services incident	340 341 342-349	Household appliances (363) Radio, TV, and communication equipment (365, 366) Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)	
371       Scientific and controlling instruments (381, 382 except 3827)         372-379       Medical, dental, and optical instruments and supplies (3827, 384, 385)         380       Photographic equipment and supplies (386)         381-389       Watches, clocks, and clockwork operated devices (387)         390       Toys, amusement, and sporting goods (394)         391       Miscellaneous manufacturing industries (39 except 394)         392-399       Not specified manufacturing industries         400-499       TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES         400-439       Transportation         400       Raliroads (40)         401       Bus service and urban transit (41, except 412)         402-409       Taxicab service (421, 423)         411       Warehousing and storage (422)         412-419       U.S. Postal Service (43)         420       Water transportation (44)         421       Air transportation (44)         422-431       Pipe lines, except natural gas (46)         432-439       Services incidental to transportation (47)         440-449       Communications         440       Radio and television broadcasting and cable (483, 484)         441       Telephone communications (481)         442-449       Telegraph and miscellaneou	351 352-359 360 361 362-369	Motor vehicles and motor vehicle equipment (371) Aircraft and parts (372) Ship and boat building and repairing (373) Railroad locomotives and equipment (374) Guided missiles, space vehicles, and parts (376)	
391       Miscellaneous manufacturing industries (39 except 394)         392-399       Not specified manufacturing industries         400-499       TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES         400-439       Transportation         400       Railroads (40)         401       Bus service and urban transit (41, except 412)         402-409       Taxicab service (412)         410       Trucking service (421, 423)         411       Warehousing and storage (422)         412-419       U.S. Postal Service (43)         420       Water transportation (44)         421       Air transportation (45)         422-431       Pipe lines, except natural gas (46)         432-439       Services incidental to transportation (47)         440-449       Communications         440       Radio and television broadcasting and cable (483, 484)         441       Telephone communications (481)         442-449       Telegraph and miscellaneous communications services (482, 489)         450-499       Utilities and sanitary services         450       Electric light and power (491)	371 372-379 380	Scientific and controlling Instruments (381, 382 except 3827) Medical, dental, and optical instruments and supplies (3827, 384, 385) Photographic equipment and supplies (386)	
392-399       Not specified manufacturing industries         400-499       TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES         400-439       Transportation         400       Railroads (40)         401       Bus service and urban transit (41, except 412)         402-409       Taxicab service (421, 423)         411       Warehousing and storage (422)         412-419       U.S. Postal Service (43)         420       Water transportation (44)         421       Air transportation (45)         422-431       Pipe lines, except natural gas (46)         432-439       Services incidental to transportation (47)         440       Radio and television broadcasting and cable (483, 484)         441       Telephone communications (481)         442-449       Telegraph and miscellaneous communications services (482, 489)         450-499       Utilities and sanitary services         450       Electric light and power (491)	390	Toys, amusement, and sporting goods (394)	
400-499TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES400-439Transportation400Railroads (40)401Bus service and urban transit (41, except 412)402-409Taxicab service (412)410Trucking service (421, 423)411Warehousing and storage (422)412-419U.S. Postal Service (43)420Water transportation (44)421Air transportation (45)422-431Pipe lines, except natural gas (46)432-439Services incidental to transportation (47)440Radio and television broadcasting and cable (483, 484)441Telephone communications (481)442-449Telegraph and miscellaneous communications services (482, 489)450-499Utilities and sanitary services450Electric light and power (491)	391	Miscellaneous manufacturing industries (39 except 394)	
400-439Transportation400Railroads (40)401Bus service and urban transit (41, except 412)402-409Taxicab service (412)410Trucking service (421, 423)411Warehousing and storage (422)412-419U.S. Postal Service (43)420Water transportation (44)421Air transportation (45)422-431Pipe lines, except natural gas (46)432-439Services incidental to transportation (47)440-449Communications440Radio and television broadcasting and cable (483, 484)441Telephone communications (481)442-449Telegraph and miscellaneous communications services (482, 489)450-499Utilities and sanitary services450Electric light and power (491)	392-399	Not specified manufacturing industries	
400Railroads (40)401Bus service and urban transit (41, except 412)402-409Taxicab service (412)410Trucking service (421, 423)411Warehousing and storage (422)412-419U.S. Postal Service (43)420Water transportation (44)421Air transportation (45)422-431Pipe lines, except natural gas (46)432-439Services incidental to transportation (47)440-449Communications440Radio and television broadcasting and cable (483, 484)441Telephone communications (481)442-449Telegraph and miscellaneous communications services (482, 489)450-499Utilities and sanitary services450Electric light and power (491)	400-499	TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	\$
440Radio and television broadcasting and cable (483, 484)441Telephone communications (481)442-449Telegraph and miscellaneous communications services (482, 489)450-499Utilities and sanitary services450Electric light and power (491)	400 401 402-409 410 411 412-419 420 421 422-431	Railroads (40) Bus service and urban transit (41, except 412) Taxicab service (412) Trucking service (421, 423) Warehousing and storage (422) U.S. Postal Service (43) Water transportation (44) Air transportation (45) Pipe lines, except natural gas (46)	
441       Telephone communications (481)         442-449       Telegraph and miscellaneous communications services (482, 489)         450-499       Utilities and sanitary services         450       Electric light and power (491)			
450 Electric light and power (491)	441	Telephone communications (481)	
CODELISTS			
	400		CODE LISTS

# 400-499 TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES—Con.

451	Gas and steam supply systems (492, 496)
452-469	Electric and gas. and other combinations (493)
470	Water supply and irrigation (494, 497)
471	Sanitary services (495)
472-499	Not specified utilities
500-579	WHOLESALE TRADE
500-539	Durable Goods
500	Motor vehicles and equipment (501)
501	Furniture and home furnishings (502)
502-509	Lumber and construction materials (503)
510	Professional and commercial equipment and supplies (504)
511	Metals and minerals, except petroleum (505)
512-520	Electrical goods (506)
521-529	Hardware, plumbing and heating supplies (507)
530	Machinery, equipment, and supplies (508)
531	Scrap and waste materials (5093)
532-539	Miscellaneous wholesale, durable goods (509 except 5093)
540-579	Nondurable Goods
540	Paper and paper products (511)
541	Drugs, chemicals and allied products (512, 516)
542-549	Apparel, fabrics, and notions (513)
550	Groceries and related products (514)
551	Farm-product raw materials (515)
552-559	Petroleum products (517)
560	Alcoholic beverages (518)
561	Farm supplies (5191)
562-570	Miscellaneous wholesale, nondurable goods (5192-5199)
571-579	Not specified wholesale trade
580-699	RETAIL TRADE
580	Lumber and building material retailing (521, 523)
581	Hardware stores (525)
582-589	Retail nurseries and garden stores (526)
590	Mobile home dealers (527)
591	Department stores (531)
592-599	Variety stores (533)
600	Miscellaneous general merchandise stores (539)
601	Grocery stores (541)
602-609	Dairy products stores (545)
610	Retail bakeries (546)
611	Food stores, n.e.c. (542, 543, 544, 549)
612-619	Motor vehicle dealers (551, 552)
620	Auto and home supply stores (553)
621	Gasoline service stations (554)
622	Miscellaneous vehicle dealers (555, 556, 557, 559)
623-629	Apparel and accessory stores, except shoe (56, except 566)
630	Shoe stores (566)
631	Furniture and home furnishings stores (571)
632	Household appliance stores (572)
633-639	Radio, TV, and computer stores (5731, 5734)
640	Music stores (5735, 5736)
641	Eating and drinking places (58)
642-649	Drug stores (591)
650	Liquor stores (592)



### 580-699 RETAIL TRADE—Con.

651	Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)
652-659	Book and stationery stores (5942, 5943)
660	Jewelry stores (5944)
661	Gift, novelty, and souvenir shops (5947)
662	Sewing, needlework and piece goods stores (5949)
663-669	Catalog and mail order houses (5961)
670	Vending machine operators (5962)
671	Direct selling establishments (5963)
672-680	Fuel dealers (598)
681	Retail florists (5992)
682-690	Miscellaneous retail stores (593, 5948, 5993-5995, 5999)
691-699	Not specified retail trade

### 700-720 FINANCE, INSURANCE, AND REAL ESTATE

700	Banking (60 except 603 and 606)
701	Savings institutions, including credit unions (603, 606)
702-709	Credit agencies, n.e.c. (61)
710	Security, commodity brokerage, and investment companies (62, 67)
711	Insurance (63, 64)
740 700	Deal actate including real actate incurrence officers (CE)

712-720 Real estate, including real estate-insurance offices (65)

### 721-760 BUSINESS AND REPAIR SERVICES

721 Advertising (731)

722-730	Services to dwellings and other buildings (734)
731	Personnel supply services (736)
732-739	Computer and data processing services (737)
740	Detective and protective services (7381, 7382)
741	Business services, n.e.c. (732, 733, 735, 7383-7389)
742-749	Automotive rental and leasing, without drivers (751)
750	Automotive parking and carwashes (752, 7542)
751	Automotive repair and related services (753, 7549)
752-759	Electrical repair shops (762, 7694)
760	Miscellaneous repair services (763, 764, 7692, 7699)

#### 761-799 PERSONAL SERVICES

761	Private households (88)
762-769	Hotels and motels (701)
770	Lodging places, except hotels and motels (702, 703, 704)
771	Laundry, cleaning, and garment services (721 except part 7219)
772-779	Beauty shops (723)
780	Barber shops (724)
781	Funeral service and crematories (726)
782-789	Shoe repair shops (725)
790	Dressmaking shops (part 7219)
791-799	Miscellaneous personal services (722, 729)

## 800-811 ENTERTAINMENT AND RECREATION SERVICES

800	Theaters and motion pictures (781-783, 792)
801	Video tape rental (784)
802-809	Bowling centers (793)
810-811	Miscellaneous entertainment and recreation services (791, 794, 799)

### 8



812-899	
	PROFESSIONAL AND RELATED SERVICES
812-819	Offices and clinics of physicians (801, 803)
820	Offices and clinics of dentists (802)
821	Offices and clinics of chiropractors (8041)
822-829	Offices and clinics of optometrists (8042)
830 831	Offices and clinics of health practitioners, n.e.c. (8043, 8049)
832-839	Hospitals (806)
840	Nursing and personal care facilities (805)
841	Health services, n.e.c. (807, 808, 809)
842-849	Legal services (81)
850	Elementary and secondary schools (821)
851	Colleges and universities (822) Vocational schools (824)
852-859	Libraries (823)
860	Educational services, n.e.c. (829)
861	Job training and vocational rehabilitation services (833)
862	Child day care services (part 835)
863-869	Family child care homes (part 835)
870	Residential care facilities, without nursing (836)
871	Social services, n.e.c. (832, 839)
872	Museums, art galleries, and zoos (84)
873-879	Labor unions (863)
880	Religious organizations (866)
881	Membership organizations, n.e.c. (861, 862, 864, 865, 869)
882-889	Engineering, architectural, and surveying services (871)
890	Accounting, auditing, and bookkeeping services (872)
891	Research, development, and testing services (873)
892	Management and public relations services (874)
893-899	Miscellaneous professional and related services (899)

#### 900-939 **PUBLIC ADMINISTRATION**

900	Executive and legislative offices (911-913)
901-909	General government, n.e.c. (919)
910-920	Justice, public order, and safety (92)
921	Public finance, taxation, and monetary policy (93)
922-929	Administration of human resources programs (94)
930	Administration of environmental quality and housing programs (95)
931	Administration of economic programs (96)
932-939	National security and international affairs (97)

#### 940-991 ACTIVE DUTY MILITARY

940-959	Armed Forces
940	Army
941	Air Force
942-949	Navy
950	Marines
951	Coast Guard
952-959	Armed Forces, Branch not specified
960-991	Military Reserves or National Guard

#### 992-999 EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY INDUSTRY

Unemployed, last worked 1984 or earlier 992-999

#### LANGUAGE

This section contains the code list of languages other than English spoken at home. Each entry was given a three-digit code. If more than one language was reported, only the first language reported was coded. The languages were coded originally into nearly 400 different language categories. The following list contains the principal name for each code. Since many languages and language groups are known by several names, additional illustrative names are shown for some languages. A complete list of all reported language names and categories into which they were coded may be obtained from the Census Bureau at the cost of reproduction.

·			
000-600	NOT IN UNIVERSE	633	WELSH
601	JAMAICAN CREOLE	634	BRETON
602	KRIO	635	IRISH GAELIC
603	HAWAIIAN PIDGIN	636	SCOTTIC GAELIC
604	PIDGIN	637	GREEK
605	GULLAH	638	ALBANIAN
606	SARAMACCA	639	RUSSIAN
		640	BIELORUSSIAN
607	GERMAN	641	UKRAINIAN
607	Austrian	642	CZECH
607	Swiss	643	KASHUBIAN
•••			
608	PENNSYLVANIA DUTCH	644	LUSATIAN
609	YIDDISH	644	Sorbian
000		644	Wendish
610	DUTCH		
610	Flemish	645	POLISH
010		646	SLOVAK
611	AFRIKAANS	647	BULGARIAN
612	FRISIAN	648	MACEDONIAN
613	LUXEMBOURGIAN		
614	SWEDISH	649	SERBOCROATIAN
615	DANISH	649	Slavic
	NORWEGIAN	649	Yugoslav
616 617	ICELANDIC		-
617 618	FAROESE	650	CROATIAN
	ITALIAN	651	SERBIAN
619		652	SLOVENE
	FRENCH	653	LITHUANIAN
620		654	LETTISH
620	Walloon	655	ARMENIAN
		000	,
621	PROVENCAL	656	PERSIAN
622	PATOIS	656	Farsi
		656	Pushto
623		000	
623	Haitian Creole	657	PASHTO
		657	Afghan
624	CAJUN	057	/ ignan
625	SPANISH	658	KURDISH
626	CATALONIAN		BALOCHI
627	LADINO	659	TADZHIK
628	PACHUCO	660	OSSETE
629	PORTUGUESE	661	SANSKRIT
630	PAPIA MENTAE	662	
631	RUMANIAN	~~~	HINDI AND RELATED
		663	
632	RHAETO-ROMANIC	663	Hindi
632	Romansch	663	India
		663	Urdu

	664	BENGALI	706	MUNDA
	665	PANJABI	707	BURUSHASKI
_	666	MARATHI		
	667	GUJARATHI	708	CHINESE
	668	BIHARI	708	Cantonese
	669 670	RAJASTHANI ORIYA	708	Yueh
	671	BHILI	708	Min
	672	ASSAMESE	700	1141/1/4
	673	KASHMIRI	709 709	HAKKA
	674	NEPALI	709	Fukien K'echia
	675	SINDHI	103	N OCHIa
	676	MALDIVIAN	710	KAN
	677	SINHALESE	710	Nan Chang
	678	ROMANY		
	679	FINNISH	711	HSIANG
	680	ESTONIAN	711	Hunan
	681 682			
	002	HUNGARIAN	712	MANDARIN
	683	OTHER URALIC LANGUAGES	712	Honan
	683	Cheremis	712 712	Hopei
	683	Mordvin	/12	Pei
	683	Samoyed	713	FUCHOW
	683	Ugric	713	Min Pei
	683	Yenisei		
			714	FORMOSAN
	684	CHUVASH	714	Min Nan
	685	KARAKALPAK		
	686 687		715	WU
	007	KIRGHIZ	716	TIBETAN
	688	KARACHAY	747	BUBLEOF
	688	Tatar	717 717	BURMESE Tonkin
				I OLIVILI
	689	UIGHUR	718	KAREN
	689	Uzbek	719	KACHIN
	690	AZERBAIJANI	720	THAI
	691 600	TURKISH	720	Kam
	692 693	TURKMEN	720	Lao
	694	YAKUT MONGOLIAN	720	Laotian
	695	TUNGUS	720	Tung
		1011400	721	MIAO-YAO
	696	CAUCASIAN	721	MIAO-TAO
	696	Avar	722	MIAO
	696	Georgian	722	Hmong
	697	BASQUE	723	JAPANESE
	698	DRAVIDIAN	724	KOREAN
	699 700	BRAHUI	725	AINU
	700 701	GONDI TELUGU		
	702	KANNADA	726	MON-KHMER
	702	MALAYALAM	726	Cambodian
	704	TAMIL	726 726	Khmer Mon
	705	KURUKH	120	
		-		

727	SIBERIAN LANGUAGES,	768	TONGAN
	not elsewhere classified	769	NIUEAN
728	VIETNAMESE	770	TOKELAUAN
729	MUONG	771	FIJIAN
		772	MARQUESAN
730	BUGINESE		
731	MOLUCCAN	773	RAROTONGAN
732	INDONESIAN	774	MAORI
733	ACHINESE	775	NUKUORO
734	BALINESE	776	HAWAIIAN
735	CHAM	777	ARABIC
736	JAVANESE	778	HEBREW
		110	TEBREW
737	MADURESE		0)/014.0
738	MALAGASY	779	SYRIAC
739	MALAY	779	Aramaic
740	MINANGKABAU	779	Assyrian
741	SUNDANESE	779	Chaldean
•••	•••••		
742	TAGALOG	780	AMHARIC
742	Filipino	780	Tigre
743	BISAYAN	781	BERBER
743	llongo		
		782	CHADIC
744	SEBUANO	782	Hamitic
	PANGASINAN	782	Hausa
745	PANGASINAN	102	Tidusa
746	ILOCANO	783	CUSHITE
746	Igorot	783	Beja
	-	783	Somali
747	BIKOL		
748	PAMPANGAN	784	SUDANIC
	GORONTALO	784	Dinka
749			Gambai
750	MICRONESIAN	784	
751	CAROLINIAN	784	Sudanese
752	CHAMORRO		
753	GILBERTESE	785	NILOTIC
754	KUSAIEAN	785	Acholi
755	MARSHALLESE	785	Luo
	MOKILESE	785	Nuer
756		705	NUE
757	MORTLOCKESE		
758	NAURUAN	786	NILO-HAMITIC
759	PALAU	786	Bari
760	PONAPEAN	786	Masai
761	TRUKESE		
762	ULITHEAN	787	NUBIAN
702	OEITHEAN	788	SAHARAN
-		700	0/1//0/10
763	WOLEAI-ULITHI	700	
763	Eauripik	789	NILO-SAHARAN
763	Ifaluk	789	Fur
		789	Songhai
764	YAPESE		
		790	KHOISAN
765	INDO-PACIFIC LANGUAGES,	790	Bushman
765		750	Busiman
	not elsewhere classified		
765	Melanesian	791	SWAHILI
766	POLYNESIAN	792	BANTU
767	SAMOAN	792	Bembe
			-
I-32			

	792	Botswana	814	KICKAPOO
	792	Chaga	815	MENOMINI
	792	Fan	0.0	
	792	Kikuyu	816	FRENCH CREE
	792	Kongo	816	Metis
	792	Luganda		MCUS
	792	Naebele	817	ΜΙΑΜΙ
	792	Xhosa	818	MICMAC
	792	Zulu	010	
			819	OJIBWA
	793	MANDE	819	Chippewa
	793	Kpelle	015	Omppetra
	793	Mandingo	820	OTTAWA
		mandingo	020	OTTAWA
	794	FULANI	821	PASSAMAQUODDY
			821	Malecite
	795	GUR	021	Malecile
	795	Dagomba	822	RENORGOT
	100	Dagomba	823	PENOBSCOT ABNAKI
	796	KRU	824	POTAWATOMI
	796	Damomeen	825	
	796	Egbo		SHAWNEE
	796	lbo	826	WIYOT
	796	Nigerian	827	YUROK
	796	Yoruba	828	KUTENAI
	790	Toruba	829	МАКАН
	797	EFIK	830	KWAKIUTL
	797	lbibio	830	
			630	Quileute
	798	MBUM AND RELATED	831-832	NOOTKA
	799	AFRICAN, not further specified	833	LOWER CHEHALIS
_	800	ALEUT	000	EGMEN ON ENALIS
			834	UPPER CHEHALIS
	801	PACIFIC GULF YUPIK	834	Chehalis
	801	Pacific Eskimo	834	Satsop
			004	Calsop
	802	ESKIMO	835	CLALLAM
	803	INUPIK	836	COEUR D'ALENE
	803	Inuit	836	Skitsamish
	804	SAINT LAWRENCE ISLAND YUPIK	837	COLUMBIA
	805	YUPIK	837	Chelan
	806	ALGONQUIAN	837	Wenatchee
	807	ARAPAHO		
			838	COWLITZ
	808	ATSINA		
	808	Gros Ventre	839	SALISH
			839	Flathead
	809	BLACKFOOT		
	810	CHEYENNE	840	NOOTSACK
	811	CREE	841	OKANOGAN
	812	DELAWARE	842	PUGET SOUND SALISH
	812	Lenni-Lenape	842	Duwamish
			842	Nisqualli
	813	FOX	842	Puyallup
	813	Sac	842	Skagit
	CODE LISTS			

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842	Snohomish	869	SOUTHERN MAIDU
842	Suquamish	869	Nisenan
843	QUINAULT	870	COAST MIWOK
843	Queets	870	Bodega
••••		870	Marin
844	TILLAMOOK		
845	TWANA	871	PLAINS MIWOK
846	HAIDA	••••	
847	ATHAPASCAN	872	SIERRA MIWOK
848	AHTENA	872	Miwok
849	HAN	0/2	
850	INGALIT	873	NOMLAKI
850 851	KOYUKON	873	Tehama
852	KUCHIN	0/0	Tonana
		874	PATWIN
853		874	Colouse
854	TANAINA	874	Suisun
075	<b>TANJANJA</b>	0/4	Suisui
855	TANANA		
855	Minto	875	WINTUN
	·	876	FOOTHILL NORTH YOKUTS
856	TANACROSS	877	TACHI
857	UPPER TANANA	878	SANTIAM
857	Nabesna	878	Calapooya
857	Tetlin	878	Wapatu
858	TUTCHONE	879	SIUSLAW
		879	Coos
859	CHASTA COSTA	879	Lower Umpqua
859	Chetco		
859	Coquille	880	KLAMATH
859	Smith River Athapascan	880	Modoc
	••••••••••••••••••••••••••••••••••••••		
860	HUPA	881	NEZ PERCE
861	OTHER ATHAPASCAN-EYAK	882	SAHAPTIAN
	LANGUAGES	882	Celilo
861	Cahto	882	Klikitat
861	Mattole	882	Palouse
861	Wailaki	882	Tenino
001	Wallan	882	Umatilla
862	APACHE	882	Warm Springs
863	KIOWA	882	Yakima
	NAVAHO	002	rakina
864		002	UPPER CHINOOK
865	EYAK	883 883	Chinook
	TUNOT		
866	TLINGIT	883	Clackamas
866	Chilkat	883	Multhomah
866	Sitka	883	Wasco
866	Tongass	883	Wishram
866	Yakutat		
		884	TSIMSHIAN
867	MOUNTAIN MAIDU	885	ACHUMAWI
867	Maidu	886	ATSUGEWI
		887	KAROK
868	NORTHWEST MAIDU	888	POMO
868	Concow	889	SHASTAN
⊢34			CODE LISTS

	890	WASHO	924	KERES
	891	UP RIVER YUMAN	925	IROQUOIS
	892	COCOMARICOPA	926	MOHAWK
	893	MOHAVE	927	ONEIDA
	894	YUMA	928	ONONDAGA
	895	DIEGUENO	929	CAYUGA
	896	DELTA RIVER YUMAN		
	897	UPLAND YUMAN	930	SENECA
	898	HAVASUPAI	931	TUSCARORA
	899			
	900	WALAPAI	932	WYANDOT
			932	Huron
	901	CHUMASH		
	902	TONKAWA	933	CHEROKEE
	903	YUCHI	934	ARIKARA
			935	CADDO
	904	CROW	936	PAWNEE
	904	Absaroke	937	WICHITA
1			938	COMANCHE
1	905	HIDATSA	~~~	
1	906	MANDAN	939	MONO
			939 939	
	907	DAKOTA	202	Owens Valley Paiute
1	907	Brule	040	
1	907 907	Lakota	940	PAIUTE
1	907 907		<b></b>	
		Oglala	941	NORTHERN PAIUTE
	907	Sioux	941	Bannock
		•·····====	941	Num
	908	CHIWERE	941	Snake
<u>.</u>	<u> </u>			
! _				
	910	KANSA	943	CHEMEHUEVI
	910	Kaw	944	KAWAIISU
			945	UTE
	911	OMAHA	946	SHOSHONI
	912	OSAGE	947	PANAMINT
	9 <u>1</u> 3		040	
	914	QUAPAW	950	CUPENO
	914	Arkansas	950 951	
	2			LUISENO
	915	ALABAMA	952 052	SERRANO
	010		953	TUBATULABAL
	916	CHOCTAW	054	<b>D</b> 11 ( )
			954	PIMA
<u> </u>	នា៤`	Chicksesw	054	<b>N</b> 4
	918	HICHITA	956	AZTECAN
	918	Apalachicola	956	Mexicano
			956	Nahua
	919	KOASATI		
			957-958	SONORAN, not elsewhere classified
	920	MUSKOGEE	957	Cahita
	920	Creek	957 957	Guasave
-	920	Seminole		
	921	CHETEMACHA	957 057	Huichole
	922	YUKI	957	Nayit
	922 923		957-958	Tarahumara
	923	WAPPO		
	CODE LISTS			
				⊢35

959	PICURIS	971	Mixtec
959	Northern Tiwa	971	Otomi
959	Taos	971	Popoloc
		971	Zapoteca
960	TIWA		
960	Isleta	972	QUECHUA
960	Ysleta	973	AYMARA
961	SANDIA	974	ARAWAKIAN
		974	Araua
962	TEWA	974	Carib
962	Hano	974	Guajiro
962	Hopi-Tewa	974	Kitemoca
962	San Ildefonso	974	Tatu
962	San Juan		OUTPOLIAN
962	Santa Clara	975	CHIBCHAN
		975	Boruca
963	TOWA	975	Cuna
964	ZUNI	975	Guaymi
965	CHINOOK JARGON	975	Ica
966	AMERICAN INDIAN		
		976	
967	MISUMALPAN	976	Guajibo
967	Matagalpa	976	Guarani
967	Miskito	976	Siriono
967	Sumu		
		977	JICARILLA
968	MAYAN LANGUAGES	977	Lipan
968	Cakchiquel		
968	Chol	978	CHIRICAHUA
968	Guastec	978	Mescalero
968	Guatemala		
968	lxil	979	SAN CARLOS
968	Kechl	979	
968	Mam	979	San Carlos
968	Maya	979	San Carlos Apache
968	Queche	979	White Mountain
968	Yucateca		
		980	KIOWA-APACHE
969	TARASCAN	981	KALISPEL
		982	
970	MAPUCHE	983-998	LANGUAGE SPECIFIED, NOT LISTED
970	Araucanian	999	NOT REPORTED
970	Chilote		
971	OTO-MANGUEN		
971	Ixatec		

### **OCCUPATION**

The list presents the occupational classification developed for the 1990 Census of Population and Housing. There are 500 categories for the employed with 1 additional category for the experienced unemployed and 3 additional categories for the Armed Forces. These categories are grouped into 6 summary groups and 13 major groups. The classification is developed from the 1980 Standard Occupational Classification. "n.e.c." is the abbreviation for not elsewhere classified.

000-202	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS
000-042	Executive, Administrative, and Managerial Occupations
000-003	Legislators (111)
004	Chief executives and general administrators, public administration (112)
005	Administrators and officials, public administration (1132-1139)
006	Administrators, protective services (1131)
007	Financial managers (122)
008	Personnel and labor relations managers (123)
009-012	Purchasing managers (124)
013	Managers, marketing, advertising, and public relations (125)
014	Administrators, education and related fields (128)
015	Managers, medicine and health (131)
016	Postmasters and mail superintendents (1344)
017	Managers, food serving and lodging establishments (1351)
018	Managers, properties and real estate (1353)
019-020	Funeral directors (part 1359)
021	Managers, service organizations, n.e.c. (127, 1352, 1354, part 1359)
022	Managers and administrators, n.e.c. (121, 126, 132-1343, 136-139)
023-042	Management Related Occupations
023	Accountants and auditors (1412)
024	Underwriters (1414)
025	Other financial officers (1415, 1419)
026	Management analysts (142)
027	Personnel, training, and labor relations specialists (143)
028	Purchasing agents and buyers, farm products (1443)
029-032	Buyers, wholesale and retail trade except farm products (1442)
033	Purchasing agents and buyers, n.e.c. (1449)
034 035	Business and promotion agents (145)
	Construction inspectors (1472)
036	Inspectors and compliance officers, except construction (1473)
037-042	Management related occupations, n.e.c. (149)
043-202	Professional Specialty Occupations
043-063	Engineers, Architects, and Surveyors
043	Architects (161)
044-062	Engineers
044	Aerospace (1622)
045	Metallurgical and materials (1623)
046	Mining (1624)
047	Petroleum (1625)
048	Chemical (1626)
049-052	Nuclear (1627)
053	Civil (1628)

Agricultural (1632)

Mechanical (1635)

Industrial (1634)

Electrical and electronic (1633, 1636)



CODE LIST

054

055

056

057

000-202	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS_Con.
058	Marine and naval architects (1637)
059-062	Engineers, n.e.c. (1639)
063	Surveyors and mapping scientists (164)
064-068	Mathematical and Computer Scientists
064	Computer systems analysts and scientists (171)
065	Operations and systems researchers and analysts (172)
	Actuaries (1732)
066	Statisticians (1733)
067	Mathematical scientists, n.e.c. (1739)
068	Maliternatical Scientists, n.e.c. (1705)
000 000	Natural Scientists
069-083 069-072	Physicists and astronomers (1842, 1843)
	Chemists, except biochemists (1845)
073	Atmospheric and space scientists (1846)
074	Geologists and geodesists (1847)
075	Deviced estimation in a p. (1940)
076	Physical scientists, n.e.c. (1849)
077	Agricultural and food scientists (1853)
078	Biological and life scientists (1854)
079-082	Forestry and conservation scientists (1852)
083	Medical scientists (1855)
	Liste Discussion Occupations
084-094	Health Diagnosing Occupations
084	Physicians (261)
085	Dentists (262)
086	Veterinarians (27)
087	Optometrists (281)
088	Podiatrists (283)
089-0 <del>94</del>	Health diagnosing practitioners, n.e.c. (289)
095-112	Health Assessment and Treating Occupations
095-112	Registered nurses (29)
096	Pharmacists (301)
	Dietitians (302)
097	Therapists
098-105	Respiratory therapists (3031)
098	Occupational therapists (3032)
099-102	Physical therapists (3033)
103	
104	Speech therapists (3034)
105	Therapists, n.e.c. (3039)
106-112	Physicians' assistants (304)
113-154	Teachers, Postsecondary
113	Earth, environmental, and marine science teachers (2212)
114	Biological science teachers (2213)
	Chemistry teachers (2214)
115	Physics teachers (2215)
116	Natural science teachers, n.e.c. (2216)
117	
118	Psychology teachers (2217)
119-122	Economics teachers (2218)
123	History teachers (2222)
124	Political science teachers (2223)
125	Sociology teachers (2224)
126	Social science teachers, n.e.c. (2225)
127	Engineering teachers (2226)
128	Mathematical science teachers (2227)

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CODE LIST

	000-202	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS-Con.
	129-132	Computer science teachers (2228)
	133	Medical science teachers (2231)
	134	Health specialties teachers (2232)
	135	Business, commerce, and marketing teachers (2233)
	136	Agriculture and forestry teachers (2234)
	137	Art, drama, and music teachers (2235)
	138	Physical education teachers (2236)
	139-142	Education teachers (2237)
	143	English teachers (2238)
	144	Foreign language teachers (2242)
	145	Law teachers (2243)
	146	Social work teachers (2244)
	147	Theology teachers (2245)
	148	Trade and industrial teachers (2246)
	149-152	Home economics teachers (2247)
	153	Teachers, postsecondary, n.e.c. (2249)
	154	Postsecondary teachers, subject not specified
	155-162	Teachers, Except Postsecondary
	155	Teachers, prekindergarten and kindergarten (231)
	156	Teachers, elementary school (232)
	157	Teachers, secondary school (233)
	158	Teachers, special education (235)
	159-162	Teachers, n.e.c. (236, 239)
	163	Counselors, Educational and Vocational (24)
-	164-165	Librarians, Archivists, and Curators
	164	Librarians (251)
	165	Archivists and curators (252)
	166-173	Social Scientists and Urban Planners
	166	Economists (1912)
	167	Psychologists (1915)
	168	Sociologists (1916)
	169-172	Social scientists, n.e.c. (1913, 1914, 1919)
	173	Urban planners (192)
	174-177	Social, Recreation, and Religious Workers
	174	Social workers (2032)
	175	Recreation workers (2033)
	176	Clergy (2042)
	177	Religious workers, n.e.c. (2049)
	178-182	Lawyers and Judges
	178	Lawyers (211)
	179-182	Judges (212)
	183-202	Writers, Artists, Entertainers, and Athletes
	183	Authors (321)
	184	Technical writers (398)
	185	Designers (322)
-	186	Musicians and composers (323)
	187	Actors and directors (324)
	188	Painters, sculptors, craft-artists, and artist printmakers (325)
	189-192	Photographers (326)

000-202	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS_Con.
193	Dancers (327)
194	Artists, performers, and related workers, n.e.c. (328, 329)
195-196	Editors and reporters (331)
197	Public relations specialists (332)
198	Announcers (333)
199-202	Athletes (34)
203-402	TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS
203-242	Technicians and Related Support Occupations
203-212	Health Technologists and Technicians
203	Clinical laboratory technologists and technicians (362)
204	Dental hygienists (363)
205	Health record technologists and technicians (364)
206	Radiologic technicians (365)
207	Licensed practical nurses (366)
208-212	Health technologists and technicians, n.e.c. (369)
213-242	Technologists and Technicians, Except Health
213-242	Engineering and Related Technologists and Technicians
	Electrical and electronic technicians (3711)
213 214	Industrial engineering technicians (3712)
215	Mechanical engineering technicians (3713)
216	Engineering technicians, n.e.c. (3719)
217	Drafting occupations (372)
218-222	Surveying and mapping technicians (373)
223-225	Science Technicians
223	Biological technicians (382)
224	Chemical technicians (3831)
225	Science technicians, n.e.c. (3832, 3833, 384, 389)
226-242	Technicians, Except Health, Engineering, and Science
226	Airplane pilots and navigators (825)
227	Air traffic controllers (392)
228	Broadcast equipment operators (393)
229-232	Computer programmers (3971, 3972)
233	Tool programmers, numerical control (3974)
234	Legal assistants (396)
235-242	Technicians, n.e.c. (399)
243-302	Sales Occupations
243-252	Supervisors and Proprietors, Sales Occupations (40)
253-257	Sales Representatives, Finance and Business Services
253	Insurance sales occupations (4122)
254	Real estate sales occupations (4123)
255	Securities and financial services sales occupations (4124)
256	Advertising and related sales occupations (4153)
257	Sales occupations, other business services (4152)
258-262	Sales Representatives, Commodities, Except Retail
258	Sales engineers (421)
259-262	Sales engineers (421) Sales representatives, mining, manufacturing, and wholesale (423, 424)
200-202	Calos reprocentantes, manag, manarasanny, and misiotale (126, 127)

203-402	TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS_Con.
263-282	Sales Workers, Retail and Personal Services
263	Sales workers, motor vehicles and boats (4342, 4344)
264	Sales workers, apparel (4346)
265	Sales workers, shoes (4351)
266	Sales workers, furniture and home furnishings (4348)
267	Sales workers, radio, TV, hi-fi, and appliances (4343, 4352)
268	Sales workers, hardware and building supplies (4353)
269-273	Sales workers, parts (4367)
274	Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)
275	Sales counter clerks (4363)
276	Cashiers (4364)
277	Street and door-to-door sales workers (4366)
278-282	News vendors (4365)
283-302	Sales Related Occupations
283	Demonstrators, promoters and models, sales (445)
284	Auctioneers (447)
285-302	Sales support occupations, n.e.c. (444, 446, 449)
303-402	Administrative Support Occupations, Including Clerical
303-307	Supervisore Administrative Summert Occurrent
303	Supervisors, Administrative Support Occupations
304	Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529) Supervisors, computer equipment operators (4512)
305	Supervisors, computer equipment operators (4512) Supervisors, financial records processing (4521)
306	Chief communications operators (4523)
307	Supervisors, distribution, scheduling, and adjusting clerks (4522, 4524-4528)
	Caper visore, distribution, schedding, and adjusting clerks (4522, 4524-4528)
308-312	Computer Equipment Operators
308	Computer operators (4612)
309-312	Peripheral equipment operators (4613)
313-315	Secretaries, Stenographers, and Typists
313	Secretaries (4622)
314	Stenographers (4623)
315	Typists (4624)
316-324	Information Clerks
316	Interviewers (4642)
317	Hotel clerks (4643)
318	Transportation tight and reconnection amount (40.44)
319-322	Transportation ticket and reservation agents (4644) Receptionists (4645)
323-324	Information clerks, n.e.c. (4649)
020 02 1	(1)0111a1011 Clerks, 11.e.C. (4049)
325-336	Records Processing Occupations, Except Financial
325	Classified-ad clerks (4662)
326	Correspondence clerks (4663)
327	Order clerks (4664)
328	Personnel clerks, except payroll and timekeeping (4692)
329-334	Library clerks (4694)
335	File clerks (4696)
336	Records clerks (4699)
337-344	Financial Reports Processing Occurrentians
337	Financial Records Processing Occupations
338	Bookkeepers, accounting, and auditing clerks (4712)
	Payroll and timekeeping clerks (4713)
CODE LIST	

203-402	TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS_Con.
339-342	Billing cierks (4715)
343	Cost and rate clerks (4716)
344	Billing, posting, and calculating machine operators (4718)
345-347	Duplicating, Mail and Other Office Machine Operators
345	Duplicating machine operators (4722)
346	Mail preparing and paper handling machine operators (4723)
347	Office machine operators, n.e.c. (4729)
348-353	Communications Equipment Operators
348-352	Telephone operators (4732)
353	Communications equipment operators, n.e.c. (4733, 4739)
354-358	Mail and Message Distributing Occupations
354	Postal clerks, except mail carriers (4742)
355	Mail carriers, postal service (4743)
356	Mail clerks, except postal service (4744)
357-358	Messengers (4745)
359-374	Material Recording, Scheduling, and Distributing Clerks
359-362	Dispatchers (4751)
363	Production coordinators (4752)
364	Traffic, shipping, and receiving clerks (4753)
365	Stock and inventory clerks (4754)
366	Meter readers (4755) Weighers, measurers, checkers, and samplers (4756, 4757)
368-372 272	Expediters (4758)
373 374	Material recording, scheduling, and distributing clerks, n.e.c. (4759)
375-378	Adjusters and Investigators
375	Insurance adjusters, examiners, and investigators (4782)
376	Investigators and adjusters, except insurance (4783)
377	Eligibility clerks, social welfare (4784)
378	Bill and account collectors (4786)
379-402	Miscellaneous Administrative Support Occupations
379-382	General office clerks (463)
383	Bank tellers (4791)
384	Proofreaders (4792)
385	Data-entry keyers (4793) Statistical clarks (4794)
386	Statistical clerks (4794) Teachers' aides (4795)
387-388	Administrative support occupations, n.e.c. (4787, 4799)
389-402	
403-472	SERVICE OCCUPATIONS
403-412	Private Household Occupations
403	Launderers and ironers (503)
404	Cooks, private household (504) Housekeepers and butlers (505)
405	Child care workers, private household (506)
406 407-412	Private household cleaners and servants (502, 507, 509)
407-412	
413-432	Protective Service Occupations
413-415	Supervisors, Protective Service Occupations
413	Supervisors, firefighting and fire prevention occupations (5111)

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CODE LIST

403-472	SERVICE OCCUPATIONS-Con.
414	Supervisors, police and detectives (5112)
415	Supervisors, guards (5113)
416-417	Firefighting and Fire Prevention Occupations
416	Fire inspection and fire prevention occupations (5122)
417	Firefighting occupations (5123)
418-424	Police and Detectives
418-422	Police and detectives, public service (5132)
423	Sheriffs, bailiffs, and other law enforcement officers (5134)
424	Correctional institution officers (5133)
425-432	Guards
425	Crossing guards (5142)
426	Guards and police, except public service (5144)
427-432	Protective service occupations, n.e.c. (5149)
433-472	Service Occupations, Except Protective and Household
433-444	Food Preparation and Service Occupations
433	Supervisors, food preparation and service occupations (5211)
434	Bartenders (5212)
435	Waiters and waitresses (5213)
436-437	Cooks (5214, 5215)
438	Food counter, fountain and related occupations (5216)
439-442	Kitchen workers, food preparation (5217)
443	Waiters'/waitresses' assistants (5218)
444	Miscellaneous food preparation occupations (5219)
445-447	Health Service Occupations
445	Dental assistants (5232)
446	Health aides, except nursing (5233)
447	Nursing aides, orderlies, and attendants (5236)
448-455	Cleaning and Building Service Occupations, Except Household
448	Supervisors, cleaning and building service workers (5241)
449-452	Maids and housemen (5242, 5249)
453	Janitors and cleaners (5244)
454	Elevator operators (5245)
455	Pest control occupations (5246)
456-472	Personal Service Occupations
456	Supervisors, personal service occupations (5251)
457	Barbers (5252)
458	Hairdressers and cosmetologists (5253)
459-460	Attendants, amusement and recreation facilities (5254)
461	Guides (5255)
462	Ushers (5256)
463	Public transportation attendants (5257)
464	Baggage porters and bellhops (5262)
465	Welfare service aides (5263)
466	Family child care providers (part 5264)
467	Early childhood teacher's assistants (part 5264)
468	Child care workers, n.e.c. (part 5264)
469-472	Personal service occupations, n.e.c. (5258, 5269)

473-502	FARMING, FORESTRY, AND FISHING OCCUPATIONS
473-476	Farm Operators and Managers
473	Farmers, except horticultural (5512-5514)
474	Horticultural specialty farmers (5515)
475	Managers, farms, except horticultural (5522-5524)
476	Managers, horticultural specialty farms (5525)
477-493	Other Agricultural and Related Occupations
477-484	Farm Occupations, Except Managerial
477-478	Supervisors, farm workers (5611)
479-482	Farm workers (5612-5617)
483	Marine life cultivation workers (5618)
484	Nursery workers (5619) Related Agricultural Occupations
485-493	Supervisors, related agricultural occupations (5621)
485 486	Groundskeepers and gardeners, except farm (5622)
487	Animal caretakers, except farm (5624)
488	Graders and sorters, agricultural products (5625)
489-493	Inspectors, agricultural products (5627)
494-496	Forestry and Logging Occupations
494	Supervisors, forestry and logging workers (571)
495	Forestry workers, except logging (572)
496	Timber cutting and logging occupations (573, 579)
497-502	Fishers, Hunters, and Trappers
497	Captains and other officers, fishing vessels (part 8241)
498	Fishers (583)
499-502	Hunters and trappers (584)
503-702	PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS
503-552	Mechanics and Repairers
503-504	Supervisors, mechanics and repairers (60)
505-552	Mechanics and Repairers, Except Supervisors
505-517	Vehicle and Mobile Equipment Mechanics and Repairers
505-506	Automobile mechanics (part 6111)
506	Automobile mechanic apprentices (part 6111)
507	Bus, truck, and stationary engine mechanics (6112) Aircraft engine mechanics (6113)
508 500 512	Small engine repairers (6114)
509-513 514	Automobile body and related repairers (6115)
515	Aircraft mechanics, except engine (6116)
516	Heavy equipment mechanics (6117)
517	Farm equipment mechanics (6118)
518	Industrial machinery repairers (613)
519-522	Machinery maintenance occupations (614)
523-533	Electrical and Electronic Equipment Repairers
523-524	Electronic repairers, communications and industrial equipment (6151, 6153, 6155)
525	Data processing equipment repairers (6154)
526	Household appliance and power tool repairers (6156)
527-528	Telephone line installers and repairers (6157) Telephone installers and repairers (6158)
529-532	Miscellaneous electrical and electronic equipment repairers (6152, 6159)
533	
534	Heating, air conditioning, and refrigeration mechanics (616)
<b>1-44</b>	CODE LIST
F	

503-702	PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS_Con.
535-552	Miscellaneous Mechanics and Repairers
535	Camera, watch, and musical instrument repairers (6171, 6172)
536-537	Locksmiths and safe repairers (6173)
538	Office machine repairers (6174)
539-542	Mechanical controls and valve repairers (6175)
543	Elevator installers and repairers (6176)
544-546	Millwrights (6178)
547-548	Specified mechanics and renainers in a subject of the
549-552	Specified mechanics and repairers, n.e.c. (6177, 6179)
0.0002	Not specified mechanics and repairers
553-612	Construction Trades
553-562	Supervisors, Construction Occupations
553	Supervisors, brickmasons, stonemasons, and tile setters (6312)
554	Supervisors, carpenters and related workers (6313)
555	Supervisors, electricians and power transmission installers (6314)
556	Supervisors, painters, paperhangers, and plasterers (6315)
557	Supervisors, plumbers, pipefitters, and steamfitters (6316)
558-562	Supervisors, construction, n.e.c. (6311, 6318)
563-612	Construction Trades, Except Supervisors
563-564	Brickmasons and stonemasons (part 6412, part 6413)
564	Brickmason and stonemason apprentices (part 6412, part 6413)
565	lie setters, hard and soft (part 6414, part 6462)
566	Carpet installers (part 6462)
567-572	Carpenters (part 6422)
569-572	Carpenter apprentices (part 6422)
573-574	Drywall installers (6424)
575-576	Electricians (part 6432)
576	Electrician apprentices (part 6432)
577-578	Electrical power installers and repairers (6433)
579-582	Painters, construction and maintenance (6442)
583	Paperhangers (6443)
584	Plasterers (6444)
585-587	Plumbers, pipefitters, and steamfitters (part 645)
587	Plumber, pipefitter, and steamfitter apprentices (part 645)
588	Concrete and terrazzo finishers (6463)
589-592	Glaziers (6464)
593	Insulation workers (6465)
594	Paving, surfacing, and tamping equipment operators (6466)
595	Roofers (6468)
596	Sheetmetal duct installers (6472)
597	Structural metal workers (6473)
598	Drillers, earth (6474)
599-612	Construction trades, n.e.c. (6467, 6475, 6476, 6479)
613-627	Extractive Occupations
613	Supervisors, extractive occupations (632)
614	Drillers, oil well (652)
615	Explosives workers (653)
616	Mining machine operators (654)
617-627	Mining occupations, n.e.c. (656)
000 700	
628-702	Precision Production Occupations
628-633	Supervisors, production occupations (67, 71)
634-655	Precision Metal Working Occupations
CODE LIST	

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503-702	PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS_Con.	
634-635	Tool and die makers (part 6811)	
635	Tool and die maker apprentices (part 6811)	
636	Precision assemblers, metal (6812)	
637-642	Machinists (part 6813)	
639-642	Machinist apprentices (part 6813)	
643	Boilermakers (6814)	
644	Precision grinders, filers, and tool sharpeners (6816)	
645	Patternmakers and model makers, metal (6817)	
646	Lay-out workers (6821)	
647-648	Precious stones and metals workers (Jewelers) (6822, 6866)	
649-652	Engravers, metal (6823)	
653-654	Sheet metal workers (part 6824)	
654	Sheet metal worker apprentices (part 6824)	
655	Miscellaneous precision metal workers (6829)	
656-665	Precision Woodworking Occupations Patternmakers and model makers, wood (6831)	
656	Cabinet makers and bench carpenters (6832)	
657	Furniture and wood finishers (6835)	
658	Miscellaneous precision woodworkers (6839)	
659-665 666-674	Precision Textile, Apparel, and Furnishings Machine Workers	
666	Dressmakers (part 6852, part 7752)	
667	Tailors (part 6852)	
668	Upholsterers (6853)	
669-673	Shoe repairers (6854)	
674	Miscellaneous precision apparel and fabric workers (6856, 6859, part 7752)	
675-685	Precision Workers, Assorted Materials	
675	Hand molders and shapers, except jewelers (6861)	
676	Patternmakers, lay-out workers, and cutters (6862)	
677	Optical goods workers (6864, part 7477, part 7677)	
678	Dental laboratory and medical appliance technicians (6865)	
679-682	Bookbinders (6844)	
683	Electrical and electronic equipment assemblers (6867)	
684-685	Miscellaneous precision workers, n.e.c. (6869)	
686-688	Precision Food Production Occupations	
686	Butchers and meat cutters (6871)	
687	Bakers (6872)	
688	Food batchmakers (6873, 6879)	
689-693	Precision Inspectors, Testers, and Related Workers	
689-692	Inspectors, testers, and graders (6881, 828)	
693	Adjusters and calibrators (6882)	
694-702	Plant and System Operators Water and sewage treatment plant operators (691)	
694	Power plant operators (part 693)	
695	Stationary engineers (part 693, 7668)	
696-698 600 700	Miscellaneous plant and system operators (692, 694, 695, 696)	
699-702		
703-902	OPERATORS, FABRICATORS, AND LABORERS	
703-802	Machine Operators, Assemblers, and Inspectors	
703-782	Machine Operators and Tenders, Except Precision	
703-716	Metal Working and Plastic Working Machine Operators	
703	Lathe and turning machine set-up operators (7312)	
704	Lathe and turning machine operators (7512)	
705	Milling and planing machine operators (7313, 7513)	
706	Punching and stamping press machine operators (7314, 7317, 7514, 7517)	
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703-902	OPERATORS, FABRICATORS, AND LABORERS_Con.	
707	Rolling machine operators (7316, 7516)	
708	Drilling and boring machine operators (7318, 7518)	
709-712	Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)	
713	Forging machine operators (7319, 7519)	
714	Numerical control machine operators (7326)	
715-716	Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)	
	massianeous metal, plastic, stone, and glass working machine operators (7329, 7529)	
717-718	Fabricating machine operators, n.e.c. (7339, 7539)	
719-725	Metal and Plastic Processing Machine Operators	
719-722	Molding and casting machine operators (7315, 7342, 7515, 7542)	
723	Metal plating machine operators (7343, 7543)	
724	Heat treating equipment operators (7344, 7544)	
725	Miscellaneous metal and plastic processing machine operators (7349, 7549)	
726-733	Woodworking Machine Operators	
726	Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)	
727	Sawing machine operators (7433, 7633)	
728	Shaping and joining machine operators (7435, 7635)	
729-732	Nailing and tacking machine operators (7636)	
733	Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)	
734-737		
734	Printing Machine Operators	
735	Printing press operators (7443, 7643)	
736	Photoengravers and lithographers (6842, 7444, 7644)	
737	Typesetters and compositors (6841, 7642)	
131	Miscellaneous printing machine operators (6849, 7449, 7649)	
738-752	Textile, Apparel, and Furnishings Machine Operators	
738	Winding and twisting machine operators (7451, 7651)	
739-742	Knitting, looping, taping, and weaving machine operators (7452, 7652)	
743	Textile cutting machine operators (7654)	
744	Textile sewing machine operators (7655)	
745-746	Shoe machine operators (7656)	
747	Pressing machine operators (7657)	
748	Laundering and dry cleaning machine operators (6855, 7658)	
749-752	Miscellaneous textile machine operators (7459, 7659)	
753-782	Machine Operators, Assorted Materials	
753	Cementing and gluing machine operators (7661)	
754	Packaging and filling machine operators (7462, 7662)	
755	Extruding and forming machine operators (7463, 7663)	
756	Mixing and blending machine operators (7664)	
757	Separating, filtering, and clarifying machine operators (7476, 7666, 7676)	
758	Compressing and compacting machine operators (7467, 7667)	
759-762	Painting and paint spraying machine operators (7669)	
763	Roasting and baking machine operators, food (7472, 7672)	
764	Washing, cleaning, and pickling machine operators (7673)	
765	Folding machine operators (7474, 7674)	
766-767	Furnace, kiln, and oven operators, except food (7675)	
768	Crushing and grinding machine operators (part 7477, part 7677)	
769-772	Slicing and cutting machine operators (7478, 7678)	
773	Motion picture projectionists (part 7479)	
774-776	Photographic process machine operators (6863, 6868, 7671)	
777-778	Miscellaneous machine operators, n.e.c. (part 7479, 7665, 7679)	
779-782	Machine operators, not specified	

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703-902	OPERATORS, FABRICATORS, AND LABORERS_Con.
783-795	Fabricators, Assemblers, and Hand Working Occupations
783	Welders and cutters (7332, 7532, 7714)
784	Solderers and brazers (7333, 7533, 7717)
785	Assemblers (772, 774)
786	Hand cutting and trimming occupations (7753)
787-788	Hand molding, casting, and forming occupations (7754, 7755)
789-792	Hand painting, coating, and decorating occupations (7756)
793-794	Hand engraving and printing occupations (7757)
795	Miscellaneous hand working occupations (7758, 7759)
796-802	Production Inspectors, Testers, Samplers, and Weighers
796	Production inspectors, checkers, and examiners (782, 787)
797	Production testers (783)
798	Production samplers and weighers (784)
799-802	Graders and sorters, except agricultural (785)
803-863	Transportation and Material Moving Occupations
803-822	Motor Vehicle Operators
803	Supervisors, motor vehicle operators (8111)
804-805	Truck drivers (8212-8214)
806-807	Driver-sales workers (8218)
808	Bus drivers (8215)
809-812	Taxicab drivers and chauffeurs (8216)
813	Parking lot attendants (874)
814-822	Motor transportation occupations, n.e.c. (8219)
823-842	Transportation Occupations, Except Motor Vehicles
823-827	Rail Transportation Occupations
823	Railroad conductors and yardmasters (8113)
824	Locomotive operating occupations (8232)
825	Railroad brake, signal, and switch operators (8233)
826-827	Rail vehicle operators, n.e.c. (8239)
828-842	Water Transportation Occupations
828	Ship captains and mates, except fishing boats (part 8241, 8242)
829-832	Sailors and deckhands (8243)
833	Marine engineers (8244)
834-842	Bridge, lock, and lighthouse tenders (8245)
843-863	Material Moving Equipment Operators
843	Supervisors, material moving equipment operators (812)
844	Operating engineers (8312)
845-847	Longshore equipment operators (8313)
848	Hoist and winch operators (8314)
849-852	Crane and tower operators (8315)
853-854	Excavating and loading machine operators (8316)
855	Grader, dozer, and scraper operators (8317)
856-858	Industrial truck and tractor equipment operators (8318)
859-863	Miscellaneous material moving equipment operators (8319)
864-902	Handlers, Equipment Cleaners, Helpers, and Laborers
864	Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
865	Helpers, mechanics, and repairers (863)
866-868	Helpers, Construction, and Extractive Occupations
866	Helpers, construction trades (8641-8645, 8648)
867	Helpers, surveyor (8646)
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# 703-902 OPERATORS, FABRICATORS, AND LABORERS\_Con.

868	Helpers, extractive occupations (865)
869-873	Construction laborers (871)
874	Production helpers (861, 862)
875-884	Freight, Stock, and Material Handlers
875	Garbage collectors (8722)
876	Stevedores (8723)
877	Stock handlers and baggers (8724)
878-882	Machine feeders and offbearers (8725)
883-884	Freight, stock, and material handlers, n.e.c. (8726)
885-886	Garage and service station related occupations (873)
887	Vehicle washers and equipment cleaners (875)
888	Hand packers and packagers (8761)
889-902	Laborers, except construction (8769)
903-908	MILITARY OCCUPATIONS (Includes only uniquely military occupations. Other Armed Forces members are coded to civilian occupations.)
903	Commissioned officers and warrant officers
904	Non-commissioned officers and other enlisted personnel
005 000	

905-908 Military occupation, rank not specified

## 909-999 EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY OCCUPATION

909-999 Unemployed, last worked 1984 or earlier

#### **PLACE OF BIRTH**

This section contains the code list for place of birth. An alphabetical list of U.S. States and territories, foreign countries, and other areas was used to assign a three-digit code to the birthplace reported by each person. The alphabetical list used in coding included abbreviations and alternate names, including some historical names for countries and names of States, provinces, counties, or other subdivisions of countries.

The following list does not include any of these alternate names, but does include continent and area names used as defaults if a specific country was not named but a broader region or area of birth was reported. The names for foreign countries shown on this list and in the publications reflect the most commonly used names in this country, not their official or legal names. Each entry shown on the following list has a unique code.

The U.S. States and territories were assigned their Federal Information Processing Standards (FIPS) code preceded by a zero. For foreign countries, codes were generally assigned by listing the countries or areas in alphabetical order (followed by default codes) within eight broad continent or regional areas: (1) Europe, (2) Asia, (3) North America, (4) Central America, (5) Caribbean, (6) South America, (7) Africa, and (8) Oceania. The entries for the USSR and the Baltic States are listed following the other entries for Europe for convenience in combining with either Europe or Asia. The entries for Germany also do not follow strict alphabetical order; codes 110-114 can be combined to tabulate an overall figure including Germany (not specified), East Germany, West Germany, and Berlin. The entries for the United Kingdom also do not follow strict alphabetical order; codes 138-145 can be combined to tabulate an overall figure including United Kingdom (not specified), England, Scotland, Wales, Northern Ireland, Guernsey, Jersey, and the Isle of Man. The codes for Asia also include a code for Korea (not specified) since it is often reported in that fashion.

001-059	United States	001-059	United States_Con.
001	Alabama	041	Oregon
002-003	Alaska	042-043	Pennsylvania
004	Arizona	044	Rhode Island
005	Arkansas	045	South Carolina
006-007	California	046	South Dakota
008	Colorado	047	Tennessee
009	Connecticut	048	Texas
010	Delaware	049	Utah
011	District of Columbia	050	Vermont
012	Florida	051-052	Virginia
013-014	Georgia	053	Washington
015	Hawaii	054	West Virginia
016	Idaho	055	Wisconsin
017	Illinois	056-059	Wyoming
018	Indiana		
019	lowa	060-099	U.S. Outlying Areas and
020	Kansas		Puerto Rico
021	Kentucky	060-065	American Samoa
022	Louisiana	066	Guam
023	Maine	067-068	Johnston Atol
024	Maryland	069-070	Northern Mariana Islands
025	Massachusetts	071	Midway Islands
026	Michigan	072-075	Puerto Rico
027	Minnesota	076-077	Navassa Island
028	Mississippi	078	U.S. Virgin Islands
029	Missouri	079-080	Wake Island
030	Montana	081-083	Baker Island
031	Nebraska	084-085	Howland Island
032	Nevada	086-088	Jarvis Island
033	New Hampshire	089-094	Kingman Reef
034	New Jersey	095	Palmyra Atoll
035	New Mexico	096-099	U.S. territory, not specified
036	New York		
037	North Carolina	100-199	Europe
038	North Dakota	100	-
039	Ohio	100	Albania
040	Oklahoma	101	Andorra
		102	Austria

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	100-199	Europe_Con.	100-199	Europe-Con.
	103	Belgium	183	Latvia
	104	Bulgaria	184-199	Lithuania
	105	Czechoslovakia		
	106	Denmark	200-299	Asia
	107	Faroe Islands	200	Afabanistan
	108	Finland	200	Afghanistan Babrain
	109	France	201	Bahrain
	110	Germany, not specified	202	Bangladesh
	111	West Germany	203	Bhutan
	112	West Berlin		Brunei
	113	East Berlin	205	Burma
	114	East Germany	206	Cambodia
	115	Gibraltar	207	China
	116	Greece	208	Cyprus
	117	Hungary	209	Hong Kong
	118	Iceland	210	India
	119	Ireland	211	Indonesia
	120	Italy	212	Iran
	121	Jan Mayen	213	Iraq
	122	Liechtenstein	214	Israel
	123	Luxembourg	215	Japan
	124	Malta	216	Jordan
	125	Monaco	217	Korea, not specified
	126	Netherlands	218	South Korea
	127	Norway	219	North Korea
	128	Poland	220	Kuwait
	129	Portugal	221	Laos
	130	Azores Islands	222	Lebanon
	131	Madeira Islands	223	Macau
	132	Romania	224	Malaysia
	133	San Marino	225	Maldives
	134	Spain	226	Mongolia
	135	Svalbard	227	Nepal
	136	Sweden	228	Oman
	137	Switzerland	229	Pakistan
	138	United Kingdom, not specified	230	Paracel Islands
	139	England	231	Philippines
	140	Scotland	232	Qatar
	141	Wales	233	Saudi Arabia
	142	Northern Ireland	234	Singapore
	143	Guernsey	235	Spratley Islands
	144	Jersey	236	Sri Lanka
	145	Isle of Man	237	Syria
	146	Vatican City	238	Taiwan
	147	Yugoslavia	239	Thailand
	148	Europe, not specified	240	Turkey
	149	Central Europe, not specified	241	United Arab Emirates
	150	Eastern Europe, not specified	242	Vietnam
	151	Lapland, not specified	243	Yemen, People's Democratic Republic
	152	Northern Europe, not specified	244	Yemen Arab Republic
	153	Southern Europe, not specified	245	Asia, not specified
	154-179	Western Europe, not specified	246	Asia Minor, not specified
	180	Union of Soviet Socialist Republics	247	East Asia, not specified
)		(USSR)	248	Gaza Strip
,	181	Baltic States, not specified	249	Indochina, not specified
	182	Estonia	250	Iraq-Saudi Arabia Neutral Zone
			251	Mesopotamia, not specified

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200-299	Asia_Con.	330-374	Caribbean_Con.
252	Middle East, not specified	357	Leeward Islands, not specified
253	Palestine, not specified	358	West Indies, not specified
254	Persian Gulf States, not specified	359-374	Windward Islands, not specified
255	Southeast Asia, not specified		
256-299	West Bank	375-399	South America
300-399	America	375	Argentina
		376	Bolivia
300-309	North America	377	Brazil Chile
300	Bermuda	378 379	Colombia
301	Canada	380	Ecuador
302	Greenland	381	Falkland Islands
303	St. Pierre and Miquelon	382	French Guiana
304-309	North America, not specified	383	Guyana
310-329	Central America	384	Paraguay
	•••••	385	Peru
310	Belize	386	Suriname
311	Costa Rica	387	Uruguay
312	El Salvador	388	Venezuela
313	Guatemala	389-399	South America, not specified
314	Honduras	400 400	Africa
315	Mexico	400-499	Africa
316 317	Nicaragua Panama	400	Algeria
318-329	Central America, not specified	401	Angola
010-023	Contrar / Michola, Net opcomed	402	Bassas da India
330-374	Caribbean	403	Benin
	Anguille	404	Botswana
330 331	Anguilla Antigua and Barbuda	405	British Indian Ocean Territory
332	Aruba	406 407	Burkina Faso Burundi
333	Bahamas	407 408	Cameroon
334	Barbados	409	Cape Verde
335	British Virgin Islands	410	Central African Republic
336	Cayman Islands	411	Chad
337	Cuba	412	Comoros
338	Dominica	413	Congo
339	Dominican Republic	414	Djibouti
340	Grenada	415	Egypt
341	Guadeloupe	416	Equatorial Guinea
342	Haiti	417	Ethiopia
343 344	Jamaica Martinique	418	Europa Island
344 345	Montserrat	419 420	Gabon Gambia
346	Netherlands Antilles	420 421	Ghana
347	St. Barthelemy	422	Glorioso Islands
348	St. Kitts-Nevis	423	Guinea
349	St. Lucia	424	Guinea-Bissau
350	St. Vincent and the Grenadines	425	Ivory Coast
351	Trinidad and Tobago	426	Juan de Nova Island
352	Turks and Caicos Islands	427	Kenya
353	Caribbean, not specified	428	Lesotho
354	Antilles, not specified	429	Liberia
355	British West Indies, not specified	430	Libya
356	Latin America, not specified	431	Madagascar
		432	Malawi
1		433	Mali

	400-499	Africa—Con.	500-553	Oceania
	434	Mauritania	500	Ashmore and Cartier Islands
_	435	Mayotte	501	Australia
	436	Morocco	502	Christmas Island, Indian Ocean
	437	Mozambique	503	Clipperton Island
	438	Namibia	504	Cocos Islands
	439	Niger	505	Cook Islands
	440	Nigeria	506	Coral Sea Islands
	441	Reunion	507	Fiji
	442	Rwanda	508	French Polynesia
	443	Sao Tome and Principe	509	Kiribati
	444	Senegal	510	Marshall Islands
	445	Mauritius	511	Micronesia
	446	Seychelles	512	Nauru
	447	Sierra Leone	513	New Caledonia
	448	Somalia	514	New Zealand
	449	South Africa	515	Niue
	450	St. Helena	516	Norfolk Island
	451	Sudan	517	Palau
	452	Swaziland	518	Papua New Guinea
	453	Tanzania	519	Pitcairn Islands
	454	Тодо	520	Solomon Islands
	455	Tromelin Island	521	Tokelau
	456	Tunisia	522	Tonga
	457	Uganda	523	Tuvalu
	458	Western Sahara	524	Vanuatu
	459	Zaire	525	Wallis and Futuna Islands
	460	Zambia	526	Western Samoa
	461	Zimbabwe	527	Oceania, not specified
	462	Africa, not specified	528	Polynesia, not specified
	463	Central Africa, not specified	529-549	Melanesia, not specified
	464	Eastern Africa, not specified	550	Antarctica
	465	Equatorial Africa, not specified	551	Bouvet Island
	466	French Equatorial Africa, not specified	552	French Southern and Antarctic Lands
	467	French West Africa, not specified	553	Heard and McDonald Islands
	468	North Africa, not specified		
	469	Western Africa, not specified	554-999	At Sea/Abroad, Not Specified
	470-499	Southern Africa, not specified	554	At sea
			555-999	Abroad, not specified
			000 999	

### RACE

This section contains the alphabetical code list for race and American Indian tribes. The list of race groups and American Indian tribes with their associated 3-digit numerical code was used to code the Asian or Pacific Islander, American Indian, Eskimo, or Aleut, and the Other race write-in entries. A separate set of 3-digit numerical codes were used to identify FOSDIC circles for the race categories listed in the race item on the questionnaire. These codes and their respective race categories are: White-971, Black or Negro-972, Indian (Amer.)-973, Eskimo-974, Aleut-975, Chinese-976, Filipino-977, Hawaiian-978, Korean-979, Vietnamese-980, Japanese-981, Asian Indian-982, Samoan-983, Guamanian-984, Other Asian or Pacific Islander-985, and Other race-986.

000-599, 973	American Indian	000-599, 973	American Indian-Con.
000-001	Ahtna	049	Port Madison
002	Biorka	050	Quinault
003	Reserve American Indian 1	051	Quileute
004-005	Bristol Bay	052	Hoh
006	Chaneliak	053	Makah
007	Chugach	054	Talakamish
008	Tanalna	055	Chinook
009	Doyon	056	Clatsop
010	Kodiak	057	Kathlamet
011	Reserve American Indian 2	058 059	Columbia River Chinook Upper Chinook
012	Sealaska	060	Wakiakum Chinook
013	Umpqua	061	Willapa Chinook
014	Alaskan Athabaskan	062	Alsea
015	Alaska Native	063	Cayuse
016	Haida	064	Celilo
017	Tlingit	065	Coos
018	Tsimshian	066	Kalapuya
019	Alaska Indian	067	Klamath
020	Chehalis	068	Molala
021	Chemakum	069	Oregon Athabaskan
022	Klallam	070	Siuslaw
023	Jamestown	071	Takelma
024	Lower Elwha	072	Tenino
025	Port Gamble Klallam	073	Tillamook
026	Coquilles	074	Tygh
027	Cowlitz	075	Umatilla
028	Lummi	076	Walla-Walla
029	Nooksack	077	Yahooskin
030	Puget Sound Salish	078	Yakima
031	Duwamish	079	Skokomish
032	Kikiallus	080	Agua Caliente Cahuilla
033	Lower Skagit Muckleshoot	081	Augustine
034 035	Nisqually	082	Cabazon
	Puyallup	083	Cahto
036		084	Cahuilla
037	Samish	085	Campo Capitan Grande
038	Sauk-Suiattle	086 087	Chemehuevi
039	Upper Skagit	088	Chimariko
040	Skykomish	089	Chumash
041	Snohomish	090	Costanoan
042	Snoqualmie	091	Cupeno
043	Squaxin Island	092	Cuyapaipe
044	Steilacoom	093	Diegueno
045	Stillaguamish	094	Digger
046	Suquamish	095	Gabrieleno
047	Swinomish	096	Ноора
048	Tulalip	097	Inaja Cosmit

	000-599, 973	American Indian-Con.	000-599, 973	American Indian-Con.
	098	Karok	154	Reserve American Indian 3
	099	Kawaiisu	155	Columbia
	100	La Jolla	156	Kalispel
	101	Lassik	157	Salish
	102	La Posta	158	Coeur D'Alene
	103	Luiseno	159	Colville
	104	Maidu	160	Spokane
	105	Manzanita	161	Nez Perce
	106	Mesa Grande	162	Washo
	107	Mountain Maidu	163	Alpine
	108	Nishinam	164	Carson
	109	Konkow	165	Dresslerville
	110	Mattole	166	Stewart
	111	Miwok	167	Wishram
	112	Coast Miwok	168	Hoopa Extension
	113	Modoc	169	Trinity
	114	Mono	170	Ute
	115	Nomalaki	171	Allen Canyon
	116	Pala	172	Uintah Ute
	117	Pechanga	173	Ute Mountain Ute
	118	Pauma	174	Shoshone Paiute
	119	Pit River	175	Paiute
	120	Pomo	176	Northern Paiute
	121	Dry Creek	177 178	Cedarville Byramid Laka
	122	Northern Pomo	179	Pyramid Lake Fort Bidwell
	123	Kashaya	180	
	124	Central Pomo	181	Las Vegas Lovelock
	125	Stonyford	182	
,	126	Eastern Pomo	183	Utu Utu Gwaitu Paiute
	127	Sulphur Bank	184	Fort Independence
	128	Salinan	185	Bridgeport Burns Paiute
	129	San Manual	186	
	130	San Pascual	187	Yerington Paiute Walker River
	131	Santa Rosa Cahuilla	188	
	132	Santa Ynez	189	Southern Paiute Kaibab
	133	Santa Ysabel	190	
	134	Serrano		Moapa Owene Velley
	135	Shasta	191 192	Owens Valley
	136	Soboba	193	Summit Lake
		Sycuan	194	Aroostook
		Tolowa		Reserve American Indian 5
		Torres-Martinez	195 196	Shoshone Battle Mountain
		Kern River		Battle Mountain
		Tule River	-	Duck Water
		Twenty-Nine Palms	198 199	Elko
		Wallaki		Ely
	144	Monno		Goshute
				Panamint
		\A/imte		Ruby Valley
		\A/is at		South Fork Shoshone
		Vana	-	Washakie
		Volute		Yomba
		Taab!		Te-Moak Western Shoshone
		Chukohanai		Bannock
,		Yuki	208	Kootenai
		Yurok	209-210	Havasupai
	100	TUIOK		Hualapai

## 000-599, 973 American Indian-Con.

212Yavapai288Reserve American Indian 10213Maricopa260Reserve American Indian 11214Quechan270Reserve American Indian 12215Cocopah272Reserve American Indian 13216Mohave272Reserve American Indian 14217Pima273Reserve American Indian 16218Tohono O'Odham274Reserve American Indian 16219Gla Bend275Navajo220Ak-Chin276Kiowa221San Xavier277Tonkawa222Selis278Okahoma Caddo223Yaqui279Afikara224Pascua Yaqui280Okahoma Pavnee225Bartio Libre281Wichita226Mississippi Choctaw283Cheyenne River Sloux227Reserve American Indian 6283Cheyenne River Sloux228Jena Choctaw285Devila Lake Sloux230Tigua286Flandreau Santee231Taos287Fort Peck232Picuris288Standing Rock Sloux233Sandia289Lake Traverse Sloux234Islata290Lower Sloux235Keres291Pine Ridge Sloux236Acoma292Pipestone Sloux237Cochil294Prior Lake238Sandia299Pine Ridge Sloux239Santa Ana297Sisston Sloux </th <th>000-599, 973</th> <th>American Indian-Con.</th> <th>000-599, 973</th> <th>American Indian—Con.</th>	000-599, 973	American Indian-Con.	000-599, 973	American Indian—Con.
213Maricopa260Reserve American Indian 11214Quechan270Reserve American Indian 12215Cocopah271Reserve American Indian 13216Mohave272Reserve American Indian 14217Pirna273Reserve American Indian 16218Tohono C'Odham274Reserve American Indian 16219Gila Bend275Navajo220Ak-Chin276Kiowa221San Xavier277Tonkawa222Selis278Oktahoma Caddo223Yaqui280Oktahoma Pawnee224Pascua Yaqui280Oktahoma Pawnee225Barrio Libre281Wichita226Missispic Choctaw282Sloux227Reserve American Indian 6286Cheyenne River Sloux228Jena Choctaw285Devils Lake Sloux229Pueblo286Flanterau Santee230Tigua288Standing Rock Sloux231Taos288Standing Rock Sloux232Picuris288Standing Rock Sloux233Sandia290Lower Sloux234Isleta290Lower Sloux235Keres291Pine Ridge Sloux236Acoma293Prait Ridge Sloux237Cochil294Prior Lake238Laguna296Rreston-Wahpeton Sloux241Santo Domingo298Teton Sloux <td>212</td> <td>Yavanai</td> <td>268</td> <td>Reserve American Indian 10</td>	212	Yavanai	268	Reserve American Indian 10
214Quechan270Reserve American Indian 12215Cocopah271Reserve American Indian 13216Mohave273Reserve American Indian 14217Pima274Reserve American Indian 16218Tohono O'Odham274Reserve American Indian 16219Gila Bend275Navajo220Ak-Chin276Klowa221San Xavier277Tonkawa222Salis278Oktahoma Caddo223Yaqui280Oktahoma Caddo224Pascua Yaqui280Oktahoma Pawnee225Bario Libre281Wichita226Mississippi Chootaw282Sioux227Reserve American Indian 6283Cheyenne River Sioux228Jena Chootaw284Crow Creek Sioux229Pueblo286Flandreau Santee231Taos288Standing Rock Sioux232Floutis288Standing Rock Sioux233Sandia290Lower Sioux234Isleta291Pine Rildge Sioux235Keres292Pipestons Sioux236Acorma293Prior Lake237Cochiil294Prior Lake238Laguna296Rosebud Sioux239San Felipe296Rosebud Sioux240Santa Ana297Sisseton-Watpeton Sioux241Santa Domingo296Teot Sioux		· · ·	269	Reserve American Indian 11
215Cocopah271Reserve American Indian 13216Mohave272Reserve American Indian 15217Pirna273Reserve American Indian 15218Tohono O'Odham274Reserve American Indian 16219Gila Bend275Navajo220Ak-Chin276Kiowa221San Xavier277Tonkawa222Selis278Oklahoma Caddo223Yaqui280Oklahoma Caddo224Pascua Yaqui281Wichita225Barrio Libre281Wichita226Missispi Choctaw283Cheyenne River Sioux227Reserve American Indian 6284Crow Creek Sioux228Jena Choctaw285Devils Lake Sioux230Tigua286Flandreau Santee231Taos288Standing Rock Sioux232Picuris289Lake Traverse Sioux233Sandia299Lake Sioux234Islata290Lower Sioux235Keres291Pine Ridge Sioux236Acorna292Pipestore Sioux237Cochiti294Prior Lake238Laguna295Roserov Marica244Islata290Lower Sioux235Keres291Pipe Floux236Acorna292Pipestore Sioux237Cochiti294Prior Lake238Laguna300		•	270	Reserve American Indian 12
216Mohave272Reserve American Indian 14217Pima273Reserve American Indian 15218Tohono O'Odham274Reserve American Indian 16219Gila Bend275Navajo220Ak-Chin276Klowa221San Xavier277Tonkawa222Selis278Oklakhoma Caddo223Yaqui279Arikana224Pascua Yaqui280Oklakhoma Pawnee225Bario Libre281Wichita226Mississippi Choctaw282Sioux227Reserve American Indian 6283Cheyenne River Sioux228Jena Choctaw284Crow Creek Sioux229Pueblo286Flandreau Santee231Taos287Fort Peck232Picuris288Standing Rock Sioux233Sandia289Lake Traverse Sioux234Isleta290Lower Sioux235Keres292Pipe Ridge Sioux236Acorna293Prairie Island Sioux237Cochiti294Prior Lake238Laguna295Rosebud Sioux239San Folipe296Rosebud Sioux240Santa Ana297Sisseton-Wahpeton Sioux241Santo Domingo298Teton Sioux242Zia298Santeofort Sioux243Tewa300Lower Brule Sioux244Nambe3			271	Reserve American Indian 13
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217Prima274Reserve American Indian 16218Tohono O'Odham275Navajo220Ak-Chin275Navajo221San Xavier277Tonkawa222Selis278Oklahoma Caddo223Yaqui280Oklahoma Caddo224Pascua Yaqui280Oklahoma Pawnee225Barrio Libre281Wichita226Mississippi Choctaw282Sioux227Reserve American Indian 6283Cheyanne River Sioux228Jena Choctaw284Crow Creek Sioux229Pueblo286Flandreau Santee230Tigua287Fort Peck231Taos287Fort Peck232Picuris288Standing Rock Sloux233Sandia289Lake Traverse Sloux234Isleta290Lower Sloux235Keres292Pipestone Sloux236Acoma293Prairie Island Sloux237Cochiti294Prior Lake238Laguna295Rosebud Sloux240Santa Ana297Sisseton-Wahpeton Sloux241Santo Domingo298Teton Sloux242Zia219Sloux243Tewa300Lower Sloux244Nambe301Sans Arc Sloux245Pojoaque302Two Kettle Sloux246San Iufeonso303Blacktott Sloux<				<b>Reserve American Indian 15</b>
218       Onbolo O Conain       275       Navajo         219       Gila Bend       275       Navajo         220       Ak-Chin       276       Kiowa         221       San Xavier       277       Tonkawa         222       Selis       278       Oklahoma Caddo         223       Yaqui       280       Oklahoma Pawnee         224       Pascua Yaqui       280       Oklahoma Pawnee         225       Barrio Libre       281       Wichita         226       Missispi Choctaw       282       Sloux         227       Reserve American Indian 6       283       Cheyenne River Sloux         228       Jena Choctaw       285       Devils Lake Sloux         229       Puebio       286       Flandreau Santee         231       Taos       287       Fort Pack         232       Picuris       288       Standing Rock Sloux         233       Sandia       289       Lawer Taverse Sloux         234       Isleta       291       Prior Lake       Taverse Sloux         235       Keres       292       Pipestone Sloux       293         236       Acoma       293       Prairie Island Sloux				Reserve American Indian 16
219Chai benu276Kiowa220Ak-Chin277Tonkawa221San Xavier277Tonkawa222Selis278Oklahoma Caddo223Yaqui280Oklahoma Caddo224Pascua Yaqui280Oklahoma Pawnee225Barrio Libre281Wichita226Mississippi Choctaw282Sioux227Reserve American Indian 6283Cheyenne River Sioux228Jena Choctaw286Flandreau Santee230Tigua286Flandreau Santee231Taos287Fort Peck232Picuris288Standing Rock Sioux233Sandia289Lake Traverse Sioux234Isleta291Pine Ridge Sioux235Keres292Pipestone Sioux236Acoma293Priarie Island Sioux237Cochiti294Prior Lake238Laguna295Rosebud Sioux240Sant Ana297Siseton-Wahpeton Sioux241Santo Domingo298Teton Sioux243Tewa301Sans Arc Sioux244Nambe301Sans Arc Sioux245Pojoaque302Two Kettle Sioux246San Iudefonso303Blackfoot Sioux243Tewa306Yankton Sioux244Nambe301Sans Arc Sioux245Pojoaque302Two Kettle Sioux <td></td> <td></td> <td></td> <td>Navaio</td>				Navaio
220Ark-Unin277Tonkawa221San Xavier278Oklahoma Caddo222Sells279Arikara223Yaqui280Oklahoma Pawnee224Pascua Yaqui280Oklahoma Pawnee225Barrio Lbre281Wichita226Mississipi Choctaw282Sloux227Reserve American Indian 6283Cheyenne River Sioux228Jena Choctaw285Devils Lake Sloux229Pueblo286Flandreau Santee230Tigua286Flandreau Santee231Taos288Standing Rock Sloux232Picuris289Lake Traverse Sloux233Sandia299Lower Sloux234Isleta290Lower Sloux235Keres291Pine Ridge Sloux236Acoma293Prairie Island Sloux237Cochili294Pior Lake238Laguna295Rosebud Sloux240Santa Ana297Sisseton-Wahpeton Sloux241Santo Domingo298Teton Sloux242Zla299Glale Sloux243Tewa300Lower Sloux244Nambe301Sans Arc Sloux245Pojoaque302Two Kettle Sloux246San Iidefonso303Blackfoot Sloux247San Juan Pueblo304Oglala Sloux248Santa Clara305Minico				•
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223Taqui280Oklahoma Pawnee224Pascua Yaqui281Wichita225Barrio Libre281Wichita226Mississippi Choctaw283Cheyenne River Sioux227Reserve American Indian 6283Crow Creek Sioux228Jena Choctaw286Flandreau Santee229Pueblo286Flandreau Santee231Taos287Fort Peck232Picuris288Standing Rock Sloux233Sandia299Lake Taverse Sloux234Isleta291Pine Ridge Sloux235Keres292Pipestone Sloux236Acoma293Priatrie Island Sloux237Cochiti294Prior Lake238Laguna295Rosebud Sloux239San Felipe296Upper Sloux240Santa Ana297Sisseton-Wahpeton Sloux241Santo Domingo298Teton Sloux242Zia299Brule Sloux244Nambe301Sans Arc Sloux245Poloaque302Two Kather Sloux246San Iufeonso303Blackfoot Sloux247San Juan Pueblo304Oglala Sloux248Santa Clara305Miniconjou249Tewa306Santee Sloux250Arizona Tewa307Yanktonal Sloux251Jemez308Santee Sloux252Apache31				
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228Jena Cricciaw285Devils Lake Sloux230Tigua286Flandreau Santee231Taos287Fort Peck232Picuris288Standing Rock Sloux233Sandia289Lake Traverse Sloux234Isleta290Lower Sloux235Keres291Pine Ridge Sloux236Acoma292Pipestone Sloux237Cochiti294Prior Lake238Laguna295Rosebud Sloux239San Felipe290Upper Sloux240Santa Ana297Sisseton-Wahpeton Sloux241Santo Domingo298Teton Sloux242Zia299Brule Sloux244Nambe300Lower Sloux245Pojoaque302Two Kettle Sloux246San lidefonso303Blackfoot Sloux247San Juan Pueblo304Oglala Sloux248Santa Clara305Miniconjou249Tesuque306Yankton Sloux250Arizona Tewa307Yankton Sloux251Jemez308Santee Sloux255Apache312Wahpeton Sloux256Oklahoma Apache313Assiniboine257Jicarilla Apache314Iowa258Lipan Apache315Otoe-Missouria254San Juan de311Wahpekute Sloux255Apache312Wahpeton Sloux <td>227</td> <td>Reserve American Indian 6</td> <td></td> <td>•</td>	227	Reserve American Indian 6		•
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256Oklahoma Apache313Assiniboine257Jicarilla Apache314Iowa258Lipan Apache315Otoe-Missouria259Mescalero Apache316Winnebago260Chiricahua317Kaw261Fort Sill Apache318Omaha262San Carlos Apache319Ponca263Payson Apache320Osage264White Mountain Apache321Quapaw265Reserve American Indian 7322Crow266Reserve American Indian 8323Hidatsa	254	San Juan de	311	Wahpekute Sioux
257Jicarilla Apache314Iowa258Lipan Apache315Otoe-Missouria259Mescalero Apache316Winnebago260Chiricahua317Kaw261Fort Sill Apache318Omaha262San Carlos Apache319Ponca263Payson Apache320Osage264White Mountain Apache321Quapaw265Reserve American Indian 7322Crow266Reserve American Indian 8323Hidatsa	255	Apache	312	Wahpeton Sioux
257Jicarilla Apache314Iowa258Lipan Apache315Otoe-Missouria259Mescalero Apache316Winnebago260Chiricahua317Kaw261Fort Sill Apache318Omaha262San Carlos Apache319Ponca263Payson Apache320Osage264White Mountain Apache321Quapaw265Reserve American Indian 7322Crow266Reserve American Indian 8323Hidatsa	256	Oklahoma Apache		Assiniboine
258Lipan Apache315Otoe-Missouria259Mescalero Apache316Winnebago260Chiricahua317Kaw261Fort Sill Apache318Omaha262San Carlos Apache319Ponca263Payson Apache320Osage264White Mountain Apache321Quapaw265Reserve American Indian 7322Crow266Reserve American Indian 8323Hidatsa	257	Jicarilla Apache		Iowa
259Mescalero Apache316Winnebago260Chiricahua317Kaw261Fort Sill Apache318Omaha262San Carlos Apache319Ponca263Payson Apache320Osage264White Mountain Apache321Quapaw265Reserve American Indian 7322Crow266Reserve American Indian 8323Hidatsa		Lipan Apache		Otoe-Missouria
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325	Comanche	381	Shawnee
326	Dakota Sioux	382	Algonquian
327	Wazhaza Sioux	383	Micmac
328		384	Mailseet
329	Nebraska Winnebago	385	Passamaguoddy
330	Wisconsin Winnebago Chippewa	386	Pleasant Point Passamaquoddy
331	Bay Mills Chippewa	387	Indian Township
332	Sault Ste. Marie Chippewa	388	Penobscot
333	Saginaw Chippewa	389	Abenaki
334	Keweenaw	390	Wampanoag
335	Lac Vieux Desert Chippewa	391	Nipmuc
336	Ontonagon	392	Narragansett
337	Leelanau	393	Pequot
338	Minnesota Chippewa	394	Mohegan
339	Boise Forte	395	Paugussett
340	Grand Portage	396	Schaghticoke
341	Fond Du Lac	397	Brotherton
342	Leech Lake	398	Shinnecock
343	Mille Lac	399	Stockbridge
344	White Earth	400	Munsee
345	Red Lake Chippewa	401	Delaware
346	Lake Superior	402	Sand Hill
347	Bad River	403	Absentee Shawnee
348	Lac Courte Oreilles	404	Clifton Choctaw
349	Lac Du Flambeau	405	Iroquois
350	Red Cliff Chippewa	406 407	Seneca Seneca Nation
351	St. Croix Chippewa	407	Tonawanda Seneca
352	Sokoagon Chippewa	409	Seneca-Cayuga
353	Turtle Mountain	410	Cayuga
354	Rocky Boy's Cree	411	Onondaga
355	Burt Lake Chippewa	412	Oneida
356	Burt Lake Band	413	Mohawk
357	Reserve American Indian 19	414	Tuscarora
358	Reserve American Indian 20	415	Wyandotte
359	Burt Lake Ottawa	416	Cherokee
360	Blackfoot	417	Eastern Cherokee
361	Cheyenne	418	Western Cherokee
362	Northern Cheyenne	419	Etowah Cherokee
363	Southern Cheyenne	420	United Keetoowah Band
	Arapaho	421	Tuscola
	Atsina	422	Northern Cherokee
	Menominee Potawatomie	423 424	Eastern Muskogee Agua Caliente
		425	Creek
		426	Thlopthlocco
		420	Yuchi
		428	Hitchiti
	Pogagon Potawatomi	429	Eastern Creek
		430	Principal Creek Indian Nation
		431	Poarch Band
			Lower Muskogee
			Alabama Coushatta
		434	Choctaw
		435	Houma
		436	Chickasaw
		437	Miccosukee
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438	Seminole	495	Susanville
439	Oklahoma Seminole	496	Table Bluff
440	Florida Seminole	497	Wascopum
441	Big Cypress	498	Wind River
442	Brighton Hollywood Seminole	499	Winnemucca
443		500	Yavapai Apache
444	Natchez	501	Reserve American Indian 27
445	Matinecock	502	Gros Ventres
446	Montauk	503	Scott Valley
447	Poospatuck	504	Warm Springs
448	Setauket	505	Santa Rosa
449	Tuckabachee	506	San Juan
450	Nanticoke	507	Red Wood
451	Piscataway	508	Salish and Kootenai
452	Nansemond	509	Georgetown
453	Chickahominy	510	Clear Lake
454	Pamunkey	511	Yakima Cowlitz
455	Mattaponi	512	Scotts Valley
456	Rappahannock	513	Cheyenne-Arapaho
457	Attacapa	514	Northern Arapaho
458	Biloxi	515	Southern Arapaho
459	Catawba	516	Mashpee Wampanoag
460	Chitimacha	517	Gay Head Wampanoag
461	Coharie	518	Timbi-Sha Shoshone
462	Croatan	519	Juaneno
463	Haliwa	520	Oklahoma Choctaw
464	Lumbee	521	Oklahoma Modoc
465	Moor	522	Oklahoma Kiowa
466	Powhatan	523	Oklahoma Comanche
467	Tunica	524	Oklahoma lowa
468	Wesort	525	Canadian Indian
469	Southeastern Indians	526	Oklahoma Ponca
470	Cajun	520	Oklahoma Ottawa
471	Coushatta	528	Oklahoma Miami
472	Reserve American Indian 23	520 529	Oklahoma Peoria
473	Reserve American Indian 24	530	Oklahoma Sac and Fox
474	Reserve American Indian 25	530	Oklahoma Kickapoo
475	Reserve American Indian 26		-
476	Colorado River	532 533	Oklahoma Delaware Caddo
477	Duck Valley	534	Pawnee
478	Fallon	535	Michigan Ottawa
479	Fort Belknap	536	Indiana Miami
480	Fort Berthold	537	Missouri Sac and Fox
481	Fort Hall	538	Eastern Shawnee
482	Fort McDermitt	539	Cherokee Shawnee
483	Fort McDowell	540	Kialegee
484	Cow Creek Umpgua	541	Alabama Quassarte
485	Gila River	542	Malheur Paiute
486	Grand Ronde	543	Wenatchee
487	Los Coyotes	544	Little Shell Chippewa
488	Mission Indians	545	Illinois
489	Morongo	546	Rampough Mountain
490	Reno-Sparks	547	Lenni-Lenape
491	Round Valley	548	Amerind White
492	Shoalwater	549	Amerind Black
493	Siletz	550	Mexican American Indian
494	Skull Valley	551	Central American Indian
	onun vanoy		

**⊢58** 

## 000-599, 973 American Indian-Con.



552	South American Indian
553	French American Indian
554	Spanish American Indian
555	Cherokees of Southeast Alabama
556	Cherokees of Northeast Alabama
557	Echota Cherokee
558	MaChis Lower Creek Indian
559	MOWA Band of Choctaw
560	Star Clan of Muskogee Creeks
561	Eastern Delaware
562	Cherokee Alabama
563	Reserve American Indian 36
564	Reserve American Indian 37
565	Mexican Indian Cherokee
566	Eastern Chickahominy
567	Western Chickahominy
568	Waccamaw-Siouan
569	Nausu Waiwash
570	Pocomoke Acohonock
571	Susquehanock
572	Wicomico
573	Piro
574	Illinois Miami
575	Tunica Biloxi
576-597	American Indian
598	Tribal response, not elsewhere
	classified
599	Reserve American Indian 38
973	American Indian (FOSDIC circle)

## 600-699, 976-985 Asian or Pacific Islander

## 600-652, 976, 977, 979-982, 985 Asian

600	Asian Indian
601	Bangladeshi
602	Bhutanese
603	Burmese
604	Cambodian (Kampuchean)
605	Chinese
606	Taiwanese
607	Formosan
608	Filipino
609	Hmong
610	Indonesian
611	Japanese
612	Korean
613	Laotian
614	Malayan
615	Okinawan
616	Pakistani
617	Sri Lankan
618	Thai
619	Vietnamese
620	Amerasian
621	Asian
622	Asiatic
	•

600-652, 976, 977, 979-982, 985 Asian-Con.

···· <b>,</b> ···	, ,
623	Eurasian
624	Mongolian
625	Oriental
626	Whello
627	Yellow
628	Borneo
629	Celebesian
630	Ceram
631	Indo-Chinese
632	lwo Jiman
633	Javanese
634	Maldivian
635	Nepali
636	Sikkim
637	Singaporean
638	Sumatran
639	Madagascar
640	Reserve Asian 2
641	Reserve Asian 3
642	Reserve Asian 4
643	Reserve Asian 5
644	Reserve Asian 6
645	Reserve Asian 7
646	Reserve Asian 8
647	Reserve Asian 9
648	Reserve Asian 10
649	Reserve Asian 11
650	Reserve Asian 12
651	Reserve Asian 13
652	Reserve Asian 14
976	Chinese (FOSDIC circle)
977	Filipino (FOSDIC circle)
979	Korean (FOSDIC circle)
980	Vietnamese (FOSDIC circle)
981	Japanese (FOSDIC circle)
982	Asian Indian (FOSDIC circle) Other Asian or Pacific Islander
985	(FOSDIC circle)
	. ,
653-699, 978	, 983, 984 Pacific Islander
653-659, 978	, 983 Polynesian
653	Hawaiian
654	Part Hawaiian
655	Samoan
656	Tahitian
657	Tongan
658	Polynesian
659	Tokelauan
978	Hawaiian (FOSDIC circle)
983	Samoan (FOSDIC circle)
	•
660-675, 984	Micronesian
660	Guamanian
661	Mariana Islander
662	Marshallese



660-675, 9	184 Micronesian—Con.	700-748 H	<b>lispanic Origin</b> —Con.
663	Palauan	712	Salvadoran
664	Bikinian	713-714	Galapagos
665	Carolinian	715	Guajiro
666	Eniwetok	716	Guatemalan
667	Kosraean	717	Hispanic
668	Kwajalein	718	Honduran
669	Micronesian	719	La Raza
670	Ponapean (Pohnpeian)	720	Latin American
671	Salpanese	721	Mestizo
672	Tarawa Islander	722	Mexican
673	Tinian	723	Nicaraguan
674	Trukese (Chuukese)	724	Panamanian
675	Yapese	725	Paraguayo
984	Guamanian (FOSDIC circle)	726	Peruvian
676-680 N	lelanesian	727	Puerto Rican
		728	Morena
676	Fijlan	729	South American
677	Melanesian	730	Spanish
678	Papua New Guinean	731	Spanish-American
679	Solomon Islander	732	Spanish-Mexican
680	New Hebrides	733	Sudamericano
681-699 C	)ther Pacific Islander	734	Uruguayan
		735	Venezuelan
681	Pacific Islander	736	Reserve Hispanic 2
682	Reserve Pacific Islander 1	737	Reserve Hispanic 3
583	Reserve Pacific Islander 2	738	Reserve Hispanic 4
584	Reserve Pacific Islander 3	739	
685	Reserve Pacific Islander 4		Reserve Hispanic 5
686	Reserve Pacific Islander 5	740 741	Reserve Hispanic 6
687	Reserve Pacific Islander 6		Reserve Hispanic 7
688	Reserve Pacific Islander 7	742	Reserve Hispanic 8
689	Reserve Pacific Islander 8	743	Reserve Hispanic 9
690	Reserve Pacific Islander 9	744	Reserve Hispanic 10
691	Reserve Pacific Islander 10	745	Reserve Hispanic 11
692	Reserve Pacific Islander 11	746	Reserve Hispanic 12
693	Reserve Pacific Islander 12	747	Reserve Hispanic 13
694	Reserve Pacific Islander 13	748	Reserve Hispanic 14
695	Reserve Pacific Islander 14	740 700 0	00 007 000 Net of Hispania Origin
<b>696</b>	Asian or Pacific Islander	749-799, 9	86, 987-999 Not of Hispanic Origin
697	Reserve Asian or Pacific Islander 1	749-750	Brava
698	Reserve Asian or Pacific Islander 2	751	Brazil
<b>599</b>	Reserve Asian or Pacific Islander 3	752	Brown
700-700 0	86, 987-999 Other Race	753	Bushwacker
•	•	754	Cajun
700-748 H	lispanic Origin	755	Cape Verdean
700	Argentinian	756	Chocolate
701	Bolivian	757	Coe Clan
702	Boricua	758	Coffee
	Californio	759	Cosmopolitan
703 704		760	Issues
704 705	Central American	761	Jackson White
705	Chicano	762	Lapp
706	Chilean	762	Lapp Melungeon
707	Colombian		Mixed
708	Costa Rican	764 765	
709	Cuban	765 768	Ramp
710	Dominican	766	Tunica
711	Ecuatorian (Ecuadorian)	767	Wesort
-60			
			OODE E

## LISTS

### 749-799, 986, 987-999 Not of Hispanic Origin-Con.



768	Mulatto
769	Moor
770	Biracial/Interracial
771	Creole
772	Indian
773	Turk
774	Half-Breed
775	Rainbow
776	Octoroon
777	Quadroon
778	Reserve Non-Hispanic 3
779	Reserve Non-Hispanic 4
780	Reserve Non-Hispanic 5
781	Reserve Non-Hispanic 6
782	Reserve Non-Hispanic 7
783	Reserve Non-Hispanic 8
784	Reserve Non-Hispanic 9
785	Reserve Non-Hispanic 10
786	Reserve Non-Hispanic 11
787	Reserve Non-Hispanic 12
788	Reserve Non-Hispanic 13
789	Reserve Non-Hispanic 14
790	Reserve Non-Hispanic 15
791	Reserve Non-Hispanic 16
792	Reserve Non-Hispanic 17
793	Reserve Non-Hispanic 18
794	Reserve Non-Hispanic 19
795	Reserve Non-Hispanic 20
796	Reserve Non-Hispanic 21
797	Reserve Non-Hispanic 22
798	Trinidad
799	Other race, not elsewhere classified
986	Other race (FOSDIC circle)
987-999	Reserve Other race
800-869, 971	White
800	White
801	Arab
802	English
803	French
804	German
805	Irish
806	Italian
~~~	

Near Easterner

White Amerind

White Chinese

White Filipino

White Korean

White Hawaiian

White Vietnamese

White Japanese

White Formosan/Taiwanese

870

871

Black

African

Polish

Scottish White and Black 800-869, 971 White-Con.

1, 972 Black or Negro
White (FOSDIC circle)
White Cherokee
Reserve White 31
Reserve White 30
Reserve White 29
Reserve White 28
Reserve White 27
Reserve White 26
Reserve White 25
Reserve White 24
Reserve White 23
Reserve White 22
Reserve White 21
Reserve White 20
Reserve White 19
Reserve White 18
Reserve White 17
Reserve White 16
Reserve White 15
Reserve White 14
Reserve White 13
Reserve White 12
Reserve White 11
Reserve White 10
Reserve White 9
Reserve White 8
Reserve White 7
Reserve White 6
Reserve White 5
Reserve White 4
Reserve White 3
White Aleut
White Eskimo
White Other Asian or Pacific Islander
White Tongan
White Tahitian
White Palauan
White Fijian
White Thai
White Sri Lankan
White Pakistani
White Okinawan
White Malayan
White Laotian
White Indonesian
White Hmong
White Cambodian (Kampuchean)
White Burmese
White Bangladeshi
White Guamanian
White Samoan
White Asian Indian

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810 811

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**H61** 

870-934, 972	Black or Negro-Con.	870-934, 972	Black or Negro-Con.
872	African American	924	Reserve Black 22
873	Afro-American	925	Reserve Black 23
874	Nigritian	926	Reserve Black 24
875	Black and White	927	Reserve Black 25
876	Black Amerind	928	Reserve Black 26
877	Black Chinese		Reserve Black 27
878	Black Formosan/Taiwanese	929	
879	Black Filipino	930	Reserve Black 28
880	Black Hawaiian	931	Reserve Black 29
881	Black Korean Black Vietnamese	932	Reserve Black 30
882 883	Black Japanese	933	Reserve Black 31
884	Black Asian Indian	934	Black Cherokee
885	Black Samoan	972	Black or Negro (FOSDIC circle)
886	Black Guamanian	935-940, 974	Eskimo
887	Black Bangladeshi	935-940, 974	ESKINO
888	Black Burmese	935	Eskimo
889	Black Cambodian (Kampuchean)	936	Reserve Eskimo 1
890	Black Hmong	937	Reserve Eskimo 2
891	Black Indonesian	938	Reserve Eskimo 3
892	Black Laotian	939	Reserve Eskimo 4
893	Black Malayan	940	Wales
894	Black Okinawan	974	Eskimo (FOSDIC circle)
895	Black Pakistani	-	
896	Black Sri Lankan	941-970, 975	Aleut
897	Black Thai	941	Aleut
898	Black Fijian	942	Reserve Aleut 1
899	Black Palauan	943	Reserve Aleut 2
900	Black Tahitian	944	Reserve Aleut 3
901	Black Tongan Black Other Asian or Pacific Islander	945	Reserve Aleut 4
902 903	Black Other Asian or Pacific Islander Black Eskimo	946-970	Reserve Aleut 5
903 904	Black Aleut	975	Aleut (FOSDIC circle)
904 905	Reserve Black 3		
906	Reserve Black 4	971-986 FOS	DIC Circle Codes
907	Reserve Black 5	971	See White
908	Reserve Black 6	972	See Black or Negro
909	Reserve Black 7	973	See American Indian
910	Reserve Black 8	974	See Eskimo
911	Reserve Black 9	975	See Aleut
912	Reserve Black 10	976	See Asian
913	Reserve Black 11	977	See Asian
914	Reserve Black 12	978	See Pacific Islander
915	Reserve Black 13	979	See Asian
916	Reserve Black 14	980	See Asian
917	Reserve Black 15	981	See Asian
917 918	Reserve Black 16	982	See Asian
		983	See Pacific Islander
919	Reserve Black 17	984	See Pacific Islander
920	Reserve Black 18	985	See Asian See Other race
921	Reserve Black 19	986	
922	Reserve Black 20	987-999 Res	erve Other Race
923	Reserve Black 21		



## CENSUS OF POPULATION AND HOUSING, 1990: SUMMARY TAPE FILE 4 DATA

#### **TECHNICAL NOTE 1**

(Clarification of Coordinate Values)

The 1990 census data files provide latitude/longitude coordinates for internal points; the TIGER™ files, for 1-cells and shape points. These points are based on North American Datum (NAD) 27; that is, the standard for latitude/longitude set in 1927. The standard was revised in 1983, but the TIGER data base does not reflect the new coordinates. We ask that you document this information for the public by issuing the following information:

The latitude/longitude coordinates in the 1990 census files and TIGER/Line™ files are based on North American Datum (NAD) 27.

November 1992



### CENSUS OF POPULATION AND HOUSING, 1990: SUMMARY TAPE FILE 4 DATA

#### TECHNICAL NOTE 2

(Selected States)

We have found three additional code errors in the 1990 census records. Bold type identifies the correct code.

#### Arkansas (05)

In the records for Cherokee Village-Hidden Valley CDP (place: census code 0383), the FIPS code should be shown as 13465 (it is shown incorrectly as 13450).

#### Delaware (10)

In the records for Dover Base Housing CDP (place: census code 0076), the FIPS 55 code should be shown as **21387** (it is shown incorrectly as 21355).

#### Nebraska (31)

In the records for **Offutt AFB** CDP (place: census code 1814), the FIPS 55 code should be shown as **35875** (the name and FIPS 55 code are shown incorrectly as Offutt AFB West and 35945, respectively).

We previously reported other corrections for all three of these, including the name error for Offutt AFB. Also, we have determined that we should not have made a correction for Laurel Bay CDP, South Carolina, please disregard this entry.

November 1992



## CENSUS OF POPULATION AND HOUSING, 1990: SUMMARY TAPE FILE 4 DATA

**TECHNICAL NOTE 3** 

(Selected States)

We have found five additional code errors in the 1990 census records. Please document the following corrections (bold type identifies the correct code):

#### Alaska (02)

In the records for Aleutians East census subarea (county subdivision in Aleutians East borough (013): census code 025), the FIPS code should be 01598 (it is shown incorrectly as 15600).

In the records for Aleutians West census subarea (county subdivision in Aleutians West census area (016): census code 025), the FIPS code should be **01615** (it is shown incorrectly as 15610).

#### Illinois (17)

In the records for Berwyn township (county subdivision in Cook County (031): census code 010), the FIPS class code should be **T5** (it is shown incorrectly as T1).

In the records for Markham precinct (county subdivision in Morgan County (137): census code 050), the FIPS code should be **92034** (it is shown incorrectly as 92043).

#### New York (36)

In the records for Carmel Hamlet CDP (place: census code 0525), the FIPS code should be 12532 (it is shown incorrectly as 12518).

November 1992



### CENSUS OF POPULATION AND HOUSING, 1990: SUMMARY TAPE FILE 4

TECHNICAL NOTE 4 (Selected States)

Hawaii (15): Two census designated places (CDP's)–Aliamanu (census code: 0007; FIPS place code: 01925) and Fort Shafter (census code: 0034; FIPS place code: 08350)–that we reported separately for the 1990 census of Honolulu County (003) should have been reported as part of Honolulu CDP (census code: 0110; FIPS place code: 17000). The corrected 1990 census population, housing unit count, land area, and population density for Honolulu CDP are as follows:

377,059	
149,066	
eters:	222.1
:	85.7
ieter:	1,697.7
	4,399.8
	149,066 eters:

**Pennsylvania** (42): Incorporated places in Pennsylvania are independent of any township, and therefore should not appear as part of a township. In Northampton County (095), two incorporated places–West Easton borough (census code: 8732; FIPS place code: 82832) and Wilson borough (census code: 8936; FIPS place code: 85592)–are shown partially in Palmer township (census code: 120; FIPS county subdivision code: 57672). The portions of the boroughs erroneously assigned to Palmer township have no population or housing, and only a small area (West Easton: .002 square kilometer of water; Wilson: .032 square kilometer of land, .016 square kilometer of water). These records should be deleted from the hierarchical tables of the published materials, and they should be transferred to the correct county subdivision records associated with West Easton (census code: 175) and Wilson (census code: 185) in data files and TIGER/Line files. For TIGER/Line Census Files, 1990, county 42 095, the Type A Records should have the data in field FMCD blanked for those records with CENID of 42095 and POLYIDs of 5673, 5660, 5662, 5667, and 5672; users should be sure to blank the appropriate fields on Record Types 1 and 3 that bound these polygons.

December 1992



### CENSUS OF POPULATION AND HOUSING, 1990: SUMMARY TAPE FILE 4

### TECHNICAL NOTE 5 (Alaska)

We have found several additional code errors and one name error in the 1990 census records for Alaska (02). Please document the following corrections (bold type identifies the correct information):

#### Alaska (02)

In the records for Allakaket ANVSA (Alaska Native area: census code 6110; FIPS code 01870), the FIPS class code should be E6 (it is shown incorrectly as E1).

In the records for Angoon ANVSA (Alaska Native area: census code 6150; FIPS code 03445), the FIPS class code should be E6 (it is shown incorrectly as E1).

In the records for Belkofski ANVSA (Alaska Native area: census code 6290; FIPS code 05980), the FIPS class code should be E1 (it is shown incorrectly as E2).

In the records for Clark's Point city (place: census code 0740; FIPS code 15450), the name is shown incorrectly as Clarks Point city.

In the records for Council ANVSA (Alaska Native area: census code 6650; FIPS code 17640), the FIPS class code should be E1 (it is shown incorrectly as E2).

In the records for Diomede city (place: census code 0890; FIPS code 19060), the FIPS class code should be C6 (it is shown incorrectly as C1).

In the records for Evansville ANVSA (Alaska Native area: census code 6830; FIPS code 23795), the FIPS class code should be E2 (it is shown incorrectly as E1).

In the records for Evansville CDP (place: census code 1070; FIPS code 23790), the FIPS class code should be U9 (it is shown incorrectly as U6).

In the records for Georgetown ANVSA (Alaska Native area: census code 6930; FIPS code 28350), the FIPS class code should be E1 (it is shown incorrectly as E2).

In the records for Harding Lake CDP (place: census code 1310; FIPS code 31820), the FIPS class code should be U1 (it is shown incorrectly as U6).

In the records for Inalik ANVSA (Alaska Native area: census code 7120; FIPS code 35170), the FIPS class code should be E6 (it is shown incorrectly as E1).

In the records for Kalskag ANVSA (Alaska Native area: census code 7180; FIPS code 37320), the FIPS class code should be E6 (it is shown incorrectly as E1).

In the records for Kodiak Station CDP (place: census code 1755), the FIPS code should be 41210 (it is shown incorrectly as 41770).

In the records for Northway CDP (place: census code 2430), the FIPS code should be 56220 (it is shown incorrectly as 56240).

In the records for Pilot Point ANVSA (Alaska Native area: census code 8035), the FIPS code should be 60645 (it is shown incorrectly as 60530).

In the records for Portage Creek ANVSA (Alaska Native area: census code 8120; FIPS code 62290), the FIPS class code should be E1 (it is shown incorrectly as E2).

In the records for Tazlina ANVSA (Alaska Native area: census code 8650; FIPS code 75490), the FIPS class code should be E1 (it is shown incorrectly as E2).

In the records for Upper Kalskag city (place: census code 3440; FIPS code 81320), the FIPS class code should be C6 (it is shown incorrectly as C1).

January 1993



March, 1993

To: Census of Population and Housing, 1990: Summary Tape File 4 Data Users

From: Data User Services Division Bureau of the Census

Attached is User Note 6 for the Summary Tape File 4 data. Please file this user note in the technical documentation as directed. User Notes 1-5 were included in the technical documentation.

These notes are sent automatically without charge to Census Bureau tape purchasers. They are available to others on a subscription basis at a cost of \$40 annually. To subscribe, contact Customer Services, Data User Services Division, Bureau of the Census, Washington, DC 20233.

Both user notes and technical notes are available upon release from the State and Regional Programs electronic bulletin board. The bulletin board can be accessed on 301-763-7554.



## CENSUS OF POPULATION AND HOUSING, 1990: SUMMARY TAPE FILE 4

**USER NOTE 6** 

Please insert the attached Table C. Standard Error Design Factors for each State, the District of Columbia,

and the United States in appendix C of your technical documentation following page C-10.

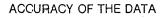
March 1993

**USER NOTES** 

## Table C. Standard Error Design Factors-United States

[Percent of persons or housing units in sample]

haracteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 perce or mo
OPULATION				
ge	1.2	1.0	0.6	(
θχ	1.2	1.0	0.6	(
ace	1.2	1.0	0.6	C
ispanic origin (of any race)	1.2	1.0	0.6	(
	1.2	0.9	0.5	Ċ
arital status		1.1	0.6	
ousehold type and relationship	1.3		1.5	1
hildren ever born	2.6	2.3	0.6	(
ork disability and mobility limitation status	1.2	1.0		
ncestry	2.1	1.7	1.0	C
ace of birth	2.2	2.1	1.2	1
tizenship	1.8	1.5	0.9	1
esidence in 1985	2.1	1.9	1.1	(
ear of entry	1.5	1.2	0.6	(
-			0.8	(
anguage spoken at home and ability to speak English	1.7	1.4		
ducational attainment	1.3	1.1	0.6	(
chool enrollment	1.8	1.5	0.9	(
pe of residence (urban/ rural)	2.2	2.2	1.4	1
busehold type	1.3	1.1	0.6	
	1.2	1.0	0.6	1
	1	0.9	0.8	
oup quarters	1.0	1.0	0.5	
bfamily type and presence of children	1.2			
nployment status	1.2	1.0	0.6	
dustry	1.3	1.1	0.6	
cupation	1.2	1.0	0.6	
ass of worker	1.5	1.2	0.7	
ours per week and weeks worked in 1989	1.2	1.0	0.6	
•				
mber of workers in family	1.3	1.1	0.6	
ace of work	1.5	1.2	0.7	
eans of transportation to work	1.5	1.2	0.7	
avel time to work	1.3	1.1	0.6	
vate vehicle occupancy	1.5	1.2	0.7	
	1.3	1.1	0.6	
me leaving home to go to work		1.2	0.6	
pe of income in 1989	1.4		0.5	
busehold income in 1989	1.2	1.0		
amily income in 1989	1.2	1.0	0.6	
overty status in 1989 (persons)	1.6	1.4	0.8	
verty status in 1989 (families)	1.2	1.0	0.5	
med Forces and veteran status	1.5	1.2	0.7	
DUSING				
ge of householder	1.2	1.0	0.6	
	1.2	1.0	0.6	
ace of householder				
spanic origin of householder	1.2	1.0	0.6	
pe of residence (urban/ rural)	1.1	1.0	0.6	
ondominium status	1.2	1.0	0.5	
nits in structure	1.2	1.0	0.6	
nure	1.2	1.0	0.6	
cupancy status	1.2	1.0	0.6	
	1.2	1.0	0.5	
	1.2	1.0	0.5	
ross rent			0.6	
ousehold income in 1989	1.2	1.0	4	
ar structure built	1.2	1.0	0.5	
ooms, bedrooms	1.2	1.1	0.5	
chen facilities	1.3	1.1	0.6	
	1.3	1.1	0.6	
purce of water, plumbing facilities			0.5	
wage disposal	1.2	1.0		
ouse heating fuel	1.3	1.1	0.6	
lephone in housing unit	1.2	1.1	0.6	
ehicles available	1.3	1.1	0.6	
ear householder moved into structure	1.2	1.0	0.6	
	1.2	1.0	0.5	
ortgage status and monthly mortgage costs			0.5	
ortgage status and selected monthly owner costs	1.2	1.0	1	
ross rent as a percentage of household income in 1989	1.3	1.1	0.6	
ousehold income in 1989 by selected monthly owner costs		1	1	
	1.2	1.0	0.5	



## Table C. Standard Error Design Factors-Alabama

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percer or mor
OPULATION				
\ge	1.2	1.0	0.6	0.
Sex	1.2	1.0	0.6	0.
Race	1.2	1.0	0.6	0.
lispanic origin (of any race)	1.2	1.0	0.6	0.
Aarital status	1.1	0.9	0.5	0.
lousehold type and relationship	1.3	1.1	0.6	0.
Children ever born	2.7	2.6	1.5	1.3
Vork disability and mobility limitation status	1.2	1.0	0.6	0.
Incestry	2.4	2.1	1.2	1.
Place of birth	2.6	2.3	1.4	1.
kitzenship	1.8	1.6	0.9	0.
ear of entry	2.1	1.9	1.1	0.
	1.3	1.1	0.6	0.
anguage spoken at home and ability to speak English	1.7	1.5	0.8	0.
ducational attainment	1.3	1.1	0.6	0.
chool enrollment	1.7	1.5	0.8	0.
ype of residence (urban/ rural)ousehold type	2.1	2.1	1.2	0.
amily type	1.3	1.1	0.6	0
roup quarters.	1.2	1.1	0.6	0
ubfamily type and presence of children.	1.0	0.9 1.0	0.8	. 0
mployment status	1.2	1.0	0.6 0.6	0
dustry	1.3	1.1	0.6	0
ccupation	1.2	1.0	0.6	0
ass of worker	1.4	1.2	0.7	0
ours per week and weeks worked in 1989	1.2	1.0	0.6	ő
umber of workers in family	1.3			
ace of work	1.5	1.1	0.6	0
eans of transportation to work	1.5	1.2	0.7 0.7	0
avel time to work	1.3	1.1	0.6	· 0. 0.
rivate vehicle occupancy	1.4	1.3	0.7	0.
me leaving home to go to work	1.3	1.1	0.6	0.
/pe of income in 1989	1.4	1.2	0.7	0.
ousehold income in 1989	1.2	1.0	0.6	0.
amily income in 1989	1.2	1.0	0.6	0.
overty status in 1989 (persons)	1.7	1.5	0.8	0.
overty status in 1989 (families)	1.2	1.0	0.6	0.
rmed Forces and veteran status	1,4	1.3	0.7	0.
OUSING				
ge of householder	1.2	1.0	0.6	0.
ace of householder	1.2	1.0	0.6	0.
spanic origin of householder	1.2	1.0	0.6	Ō.
/pe of residence (urban/ rural)	1.2	1.1 -	0.6	0.
ondominium status	1.2	1.1	0.5	0.
nits in structure	1.2	1.1	0.6	0.
onure	1.2	1.0	0.6	0.
coupancy status	1.2	1.0	0.6	0.
oss rent	1.2	1.0	0.6	0.
busehold income in 1989	1.2	1.1	0.6	0.
ear structure built	1.2	1.0	0.6	0.
	1.2	1.0	0.5	0.
ooms, bedrooms	1.2	1.1	0.6	0.
chen facilities	1.3	1.3	0.5	0.
urce of water, plumbing facilities wage disposal	1.3	1.1	0.6	0.
buse heating fuel	1.2	1.1	0.5	0.
lephone in housing unit	1.2	1.1	0.6	0.
hicles available	1.2	1.1	0.6	0.
par householder moved into structure	1.3 1.2	1.1	0.6	0.
ortgage status and monthly mortgage costs	1.2	1.1	0.6 0.5	0.
ortgage status and selected monthly owner costs	1.2	1.0	0.5	0.
ross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.
pusehold income in 1989 by selected monthly owner costs	,		0.0	0.
is a percentage of income	1.2	1.0		

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### Table C. Standard Error Design Factors-Alaska

[Percent of persons or housing units in sample]

DPULATION				
16	1.2	1.0	0.6	0
x	1.2	1.0	0.6	ā
ACe	1.2	1.0	0.6	ā
	1.2	1.0	0.6	ā
spanic origin (of any race)				
arital status	1.1	0.9	0.6	0
ousehold type and relationship	1.3	1.1	0.7	0
	2.4	2.0	1.4	1
ork disability and mobility limitation status	1.2	1.0	0.6	· 0
ncestry	2.0	1.8	1.2	1
ace of birth	1.6	1.5	1.0	C
tizenship	1.7	1.5	1.0	(
esidence in 1985	2.0	1.8	1.1	
ear of entry	1.4	1.1	0.7	(
-				
nguage spoken at home and ability to speak English	1.6	1.4	0.8	(
ducational attainment	1.3	1.1	0.7	(
chool enrollment	1.7	1.4	0.9	(
pe of residence (urban/ rural)	2.4	2.4	1.2	
	1.3	1.1	0.7	
usehold type				
mily type	1.2	1.0	0.6	
oup quarters	1.0	1.0	0.8	
bfamily type and presence of children	1.1	1.0	0.5	
ployment status	1.2	1.0	0.6	
justry	1.3	1.1	0.6	
coupation	1.2	1.0	0.6	
	1.3	1.2	0.7	
ass of worker				
urs per week and weeks worked in 1989	1.2	1.0	0.6	
mber of workers in family	1.4	1.2	0.7	
ce of work	1.5	1.2	0.8	
eans of transportation to work	1.4	1.2	0.7	
avel time to work	1.3	1.1	0.7	
vate vehicle occupancy	1.4	1.2	0.7	
ne leaving home to go to work	1.3	1.1	0.7	
pe of income in 1989	1.4	1.2	0.6	
usehold income in 1989	1.2	1.0	0.6	
mily income in 1989	1.2	1.0	0.6	
verty status in 1989 (persons)	1.6	1.4	0.8	
		1.0	0.6	
vorty status in 1989 (familios)	1.2			
med Forces and veteran status	1.3	1.1	0.7	
DUSING				
ge of householder	1.2	1.0	0.6	
ce of householder	1.2	1.0	0.6	
spanic origin of householder	1.2	1.0	0.6	
pe of residence (urban/ rural)	1.0	0.9	0.5	
ndominium status.	1.2	1.0	0.5	
its in structure	1.1	1.0	0.6	
nure	1.2	1.0	0.6	
cupancy status	1.2	1.0	0.6	
lue	1.2	1.0	0.6	
oss rent	1.2	1.0	0.5	
usehold income in 1989	1.2	1.0	0.6	
ar structure built	1.2	1.0	0.5	
oms, bedrooms	1.2	1.0	0.5	
chen facilities	1.3	1.0	0.5	
urce of water, plumbing facilities	1.3	1.1	0.5	
wage disposal	1.1	1.0	0.5	
puse heating fuel	1.3	1.1	0.6	
	1.3	1.1	0.6	
lephone in housing unit				
hicles available	1.3	1.1	0.6	
ear householder moved into structure	1.2	1.0	0.6	
ortgage status and monthly mortgage costs	1.1	1.0	0.6	
ortgage status and selected monthly owner costs	1.1	1.0	0.6	
ross rent as a percentage of household income in 1989	1.2	1.0	0.6	
busehold income in 1989 by selected monthly owner costs	1.2	1.0	0.0	

### Table C. Standard Error Design Factors—Arkansas

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percer or mor
OPULATION				
\ge	1.2	1.0	0.6	0.
Sex	1.2	1.0	0.6	0.
lace	1.2	1.0	0.6	0.
lispanic origin (of any race)	1.2	1.0	0.6	0.
Aarital status	1.1	0.9	0.5	0.
lousehold type and relationship	1.3	1.1	0.6	0.
Children ever born	2.8	2.6	1.7	0. 1.
Vork disability and mobility limitation status	1.2	1.0	0.5	0.
Ancestry	2.2	1.9	1.1	0.
Place of birth	2.3	1.9	1.2	0.
Citizenship	1.8	1.6	0.9	0.
lesidence in 1985	2.1	1.9	1.0	0.
/ear of entry	1.3	1.1	0.6	0.
-				
anguage spoken at home and ability to speak English	1.7	1.5	0.8	0.
ducational attainment	1.3	1.1	0.6	· 0.
chool enrollment	1.7	1.6	0.8	0.
ype of residence (urban/ rural)	2.7	2.7	1.2	0.
lousehold type	1.3	1.1	0.6	0
amily type	1.2	1.1	0.5	0
iroup quarters	1.1	1.0	0.8	0
ubfamily type and presence of children	1.2	1.0	0.6	0
mployment status	1.2	1.0	0.5	ō
ndustry	1.3	1.1	0.6	ō
Occupation	1.2	1.0	0.5	ő
lass of worker	1.4	1.2	0.6	ŏ
ours per week and weeks worked in 1989	1.2	1.0	0.5	ő
umber of workers in family	1.3	1.1	0.6	0
lace of work	1.5	1.3	0.7	0
leans of transportation to work	1.4	1.3	0.7	0
ravel time to work	1.3	1.1	0.6	0
rivate vehicle occupancy	1.4	1.3	0.7	0
ime leaving home to go to work	1.3	1.1	0.6	0
ype of income in 1989	1.4	1.2	0.6	0
ousehold income in 1989	1.2	1.0	0.5	0
amily income in 1989	1.2	1.0	0.5	0
overty status in 1989 (persons)	1.7	1.4	0.8	0
overty status in 1989 (families)	1.2	1.0	0.5	0
rmed Forces and veteran status	1.4	1.2	0.7	ŏ
IOUSING				
me of householder	10	10	0.6	•
ge of householder	1.2	1.0	0.6	0
ace of householdor	1.2	1.0	0.6	0
ispanic origin of householder	1.2	1.0	0.6	0
ype of residence (urban/ rural)	1.1	1.1	0.5	0
ondominium status	1.2	1.1	0.5	0
nits in structure	1.2	1.1	0.6	0
enure	1.2	1.0	0.6	0
ccupancy status	1.2	1.0	0.6	0
alue	1.2	1.0	0.5	0
ross rent	1.2	1.0	0.5	0
ousehold income in 1989	1.2	1.0	0.5	0
ear structure built	1.2	1.0	0.5	0
ooms, bedrooms	1.2	1.0	0.5	0
tchen facilities	1.2	1.2	0.5	0
ource of water, plumbing facilities		1.1	0.6	0
ewage disposal	1.3		0.5	0
	1.2	1.1		-
ouse heating fuel	1.2	1.0	0.5	0
elephone in housing unit	1.2	1.1	0.6	0
ehicles available	1.3	1.1	0.5	Q
ear householder moved into structure	1.2	1.0	0.5	0
ortgage status and monthly mortgage costs	1.2	1.0	0.5	0
lortgage status and selected monthly owner costs	1.2	1.0	0.5	0
aross rent as a percentage of household income in 1989	1.2	1.0	0.5	0
ousehold income in 1989 by selected monthly owner costs				
as a percentage of income	1.2	1.0	0.5	C

### Table C. Standard Error Design Factors-Arizona

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percer or mor
POPULATION				
Age	1.2	1.0	0.6	0.
Sex	1.2	1.0	0.6	0.
Race	1.2	1.0	0.6	0.
Hispanic origin (of any race)	1.2	1.0	0.6	Ő.
Marital status	1.2	0.9	0.6	0.
lousehold type and relationship	1.4	1.1	0.7	0.
Children ever born	2.7	2.3	1.6	1.
Vork disability and mobility limitation status	1.3	1.1	0.6	0.
Ancestry	2.1	1.8	1.1	1.
Place of birth	1.8	1.5	1.0	0.
Citizenship	1.9	1.5	1.0	0
Residence in 1985	2.1	1.8	1.1	ō
fear of entry	1.5	1.2	0.6	0.
anguage spoken at home and ability to speak English	1.7	1.4	0.8	0.
Educational attainment.	1.4	1.1	0.7	
School enroliment				0.
ype of residence (urban/ rural)	1.9	1.5	1.0 0.9	0. 0.
lousehold type	1.4	1.1	0.9	. 0.
amily type	1.3	1.0	0.7	0.
Broup quarters.	1.1	1.0	1.0	1
subfamily type and presence of children	1.2	1.0	0.6	0
mployment status	1.3	1.0	0.6	0
ndustry	1.3	1.0	0.6	
Decupation	1.3	1.0	0.6	0
Class of worker	1.5	1.2	0.7	0
lours per week and weeks worked in 1989	1.2	1.0	0.6	0
-				
lumber of workers in family	1.4	1.1	0.7	0
lace of work	1.6	1.2	0.8	0
leans of transportation to work	1.5	1.2	0.7	0.
ravel time to work	1.4	1.1	0.6	0.
Private vehicle occupancy	1.5	1.2	0.8	0.
ime leaving home to go to work	1.3	1.1	0.6	0.
ype of income in 1989	1.4	1.2	0.7	0.
lousehold income in 1989	1.3	1.1	0.6	0
amily income in 1989	1.3	1.0	0.6	0.
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.
Poverty status in 1989 (families)	1.2	1.0	0.6	0.
Irmed Forces and veteran status	1.5	1.2	0.8	0.
IOUSING				
ge of householder	1.2	1.0	0.6	0.
ace of householder	1.2	1.0	0.6	0.
lispanic origin of householder	1.2	1.0	0.6	0.
ype of residence (urban/ rural)	1.1	0.9	0.6	0.
Condominium status	1.2	1.1	0.6	0.
Inits in structure	1.2	1.0	0.5	0.
enure	1.2	1.0	0.6	0.
ccupancy status	1.2	1.0	0.6	0.
alue	1.2	1.0	0.6	0.
ross rent	1.3	1.0	0.6	0.
ousehold income in 1989	1.3	1.0	0.6	0.
ear structure built	1.2	1.0	0.6	0.
ooms, bedrooms	1.2	1.0	0.6	0.
itchen facilities	1.3	1.1	0.5	0.
ource of water, plumbing facilities	1.4	1.2	0.6	0.
ewage disposal	1.2	1.0	0.6	0.
ouse heating fuel	1.3	1.1	0.6	0.
elephone in housing unit	1.2	1.1	0.6	0.
ehicles available	1.3	1.1	0.6	0.
ear householder moved into structure	1.2	1.1	0.6	0.
lortgage status and monthly mortgage costs	1.2	1.0	0.6	0.
lortgage status and selected monthly owner costs	1.2	1.0	0.6	0.
ross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.
lousehold income in 1989 by selected monthly owner costs				0.
as a percentage of income	1.2	1.0	0.6	0.

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## Table C. Standard Error Design Factors-California

[Percent of persons or housing units in sample]

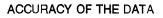
Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2			
		1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.6	0.4
Household type and relationship	1.4	1.1	0.7	0.5
Children ever born	2.6	2.3	1.4	1.1
Work disability and mobility limitation status	1.3	1.1	0.6	0.5
Ancestry	2.3	1.9	1.1	0.7
Place of birth	1.9	1.6	1.0	0.7
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.1	1.8	1.1	0.8
Year of entry	1.7	1.4	0.7	0.6
Longuage anakon at home and shilling to anash English	10			
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment.	1.4	1.2	0.7	0.5
School enrollment	1.8	1.5	1.0	0.7
Type of residence (urban/ rural)	2.5	2.2	1.7	0.8
Household type	1.4	1.1	0.7	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters.	1.2	1.2	1.2	0.8
Subfamily type and presence of children				
	1.3	1.1	0.6	0.4
Employment status	1.3	1.1	0.6	0.5
Industry	1.3	1.2	0.7	0.5
Occupation	1.3	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.1	0.6	0.5
Klauden in internet in the second				
Private vehicle occupancy	1.4 1.5	1.2 1.3	0.7 0.7	0.5 0.5
I ravel time to work Private vehicle occupancy				
Private vehicle occupancy	1.5	1.3	0.7	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.5
Private vehicle occupancy	1.5 1.2 1.2	1.3  1.1	0.7	0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7	1.3 1.1 1.1 1.4	0.7 0.6 0.8	0.5 0.5 0.5 0.7
Private vehicle occupancy	1.5 1.2 1.7 1.2	1.3  1.1 1.4 1.0	0.7 0.6 0.8 0.6	0.5 0.5 0.5 0.7 0.5
Private vehicle occupancy.       Image:	1.5 1.2 1.7	1.3 1.1 1.1 1.4	0.7 0.6 0.8	0.5 0.5 0.5 0.7
Private vehicle occupancy	1.5 1.2 1.7 1.2	1.3  1.1 1.4 1.0	0.7 0.6 0.8 0.6	0.5 0.5 0.5 0.7 0.5
Private vehicle occupancy.       Time logging home to go to wart         Time logging home to go to wart         Family income in 1989.         Poverty status in 1989 (persons).         Poverty status in 1989 (families).         Armed Forces and veteran status.         HOUSING	1.5 1.2 1.7 1.2 1.6	1.3 1.1 1.4 1.0 1.3	0.7 0.6 0.8 0.6 0.7	0.5 0.5 0.7 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.6	1.3 1.1 1.4 1.0 1.3 1.0	0.7 0.6 0.8 0.6 0.7 0.6	0.5 0.5 0.5 0.7 0.5 0.5 0.5
Private vehicle occupancy Time lociting home to go to wert Family income in 1989 Poverty status in 1989 (persons) Poverty status in 1989 (families) Armed Forces and veteran status HOUSING Age of householder Race of householder	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6	0.5 0.5 0.7 0.5 0.5 0.5 0.5
Private vehicle occupancy Time lociting home to go to wark Family income in 1989. Poverty status in 1989 (persons). Poverty status in 1989 (families). Armed Forces and veteran status HOUSING Age of householder . Race of householder . Hispanic origin of householder.	1.5 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.1	1.3 1.1 1.4 1.0 1.3 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6	0.5 0.5 0.7 0.5 0.5 0.5 0.5
Private vehicle occupancy Time lociting home to go to wark Family income in 1989. Poverty status in 1989 (persons). Poverty status in 1989 (families). Armed Forces and veteran status HOUSING Age of householder . Race of householder . Hispanic origin of householder.	1.5 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.1	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.7 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.1 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy Time locuing home to go to wert Family income in 1989. Poverty status in 1989 (persons). Poverty status in 1989 (families) Armed Forces and veteran status. HOUSING Age of householder Race of householder Race of householder Hispanic origin of householder. Type of residence (urban/ rural). Condominium status. Units in structure. Tenure.	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.1	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy The lowing here to go to wark Family income in 1989. Poverty status in 1989 (persons). Poverty status in 1989 (families) Armed Forces and veteran status HOUSING Age of householder Race of householder Hispanic origin of householder. Type of residence (urban/ rural). Condominium status Units in structure. Tenure Occupancy status	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.1 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.1 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.8 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.1	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.8 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.1	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3  1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3  1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3  1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy.	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3  1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy.         Time locuing home to go to wart         Family income in 1989.         Poverty status in 1989 (persons).         Poverty status in 1989 (families)         Armed Forces and veteran status. <b>HOUSING</b> Age of householder .         Hispanic origin of householder.         Type of residence (urban/ rural).         Condominium status.         Units in structure.         Tenure.         Occupancy status.         Value         Gross rent.         Household income in 1989.         Year structure built         Rooms, bedrooms.         Kitchen facilities         Source of water, plumbing facilities.         Sewage disposal	1.5 1.2 1.7 1.2 1.7 1.2 1.8 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy.         Time locuing home to go to wast         Family income in 1989.         Poverty status in 1989 (persons).         Poverty status in 1989 (families)         Armed Forces and veteran status <b>HOUSING</b> Age of householder         Race of householder         Hispanic origin of householder         Type of residence (urban/ rural).         Condominium status         Units in structure.         Tenure.         Occupancy status         Value         Gross rent.         Household income in 1989.         Year structure built         Rooms, bedrooms.         Kitchen facilities         Source of water, plumbing facilities.         Sewage disposal         House heating fuel	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3  1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy.         Time location base to set to wert         Time location base to set to wert         Family income in 1989.         Poverty status in 1989 (persons).         Poverty status in 1989 (families)         Armed Forces and veteran status <b>HOUSING</b> Age of householder         Race of householder         Hispanic origin of householder.         Type of residence (urban/ rural).         Condominium status.         Units in structure.         Tenure.         Occupancy status.         Value.         Gross rent.         Household income in 1989.         Year structure built.         Rooms, bedrooms.         Kitchen facilities         Source of water, plumbing facilities.         Sewage disposal.         House heating fuel	1.5 1.2 1.7 1.2 1.7 1.2 1.8 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy.         Time lociting home to go to wast         Family income in 1989.         Poverty status in 1989 (persons).         Poverty status in 1989 (families)         Armed Forces and veteran status. <b>HOUSING</b> Age of householder .         Race of householder .         Hispanic origin of householder .         Type of residence (urban/ rural).         Condominium status.         Units in structure .         Tenure.         Occupancy status.         Value         Gross rent.         Household income in 1989.         Year structure built.         Rooms, bedrooms.         Kitchen facilities         Source of water, plumbing facilities.         Sewage disposal.         House heating fuel         Telephone in housing unit.	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3  1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3  1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy	1.5 1.2 1.7 1.2 1.7 1.2 1.8 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy.         Time locuing home to go to wast         Family income in 1989.         Poverty status in 1989 (persons).         Poverty status in 1989 (families)         Armed Forces and veteran status. <b>HOUSING</b> Age of householder         Hispanic origin of householder.         Type of residence (urban/ rural).         Condominium status.         Units in structure.         Tenure.         Occupancy status         Value         Gross rent.         Household income in 1989.         Year structure built         Rooms, bedrooms.         Kitchen facilities         Source of water, plumbing facilities.         Sewage disposal.         House heating fuel         Telephone in housing unit.         Vehicles available         Year householder moved into structure         Mortgage status and monthly mortgage costs         Mortgage status and selected monthly owner costs	1.5 1.2 1.7 1.2 1.7 1.2 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Private vehicle occupancy.         Time locuing home to go to work!         Family income in 1989.         Poverty status in 1989 (persons).         Poverty status in 1989 (families).         Armed Forces and veteran status. <b>HOUSING</b> Age of householder .         Hispanic origin of householder.         Type of residence (urban/ rural).         Condominium status.         Units in structure.         Tenure.         Occupancy status.         Value         Gross rent.         Household income in 1989.         Year structure built.         Rooms, bedrooms.         Kitchen facilities         Source of water, plumbing facilities.         Sewage disposal.         Householder moved into structure.         Mortgage status and monthly mortgage costs	1.5 1.2 1.7 1.2 1.7 1.2 1.8 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3 1.1 1.4 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 0.6 0.8 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

ACCURACY OF THE DATA

### Table C. Standard Error Design Factors-Colorado

[Percent of persons or housing units in sample]

haracteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 perce or mo
OPULATION				
ge	1.2	1.0	0.6	0
ex	1.2	1.0	0.6	0
ace	1.2	1.0	0.6	ō
ispanic origin (of any race)	1.2	1.0	0.6	0
larital status	1.1	0.9	0.6	Ō
ousehold type and relationship	1.3	1.1	0.7	Ū.
hildren ever born	2.5	2.2	1.4	1
ork disability and mobility limitation status	1.2	1.0	0.6	0
ncestry	1.9	1.6	1.1	Ċ
lace of birth	1.8	1.6	1.0	Ċ
itizenship	1.8	1.4	1.0	Ċ
esidence in 1985	1.9	1.7	1.1	· · · · ·
ear of entry	1.4	1.2	0.6	Ċ
-		1.4	0.9	c
anguage spoken at home and ability to speak English	1.6			
ducational attainment	1.3	1.1	0.7	(
chool enrollment	1.7	1.4	1.0	C C
ype of residence (urban/ rural)	2.1	2.1	1.8	1
ousehold type	1.3	1.1	0.7	
amily type	1.2	1.0	0.6	
roup quarters	1.0	0.9	0.9	
ubfamily type and presence of children	1.2	1.0	0.6	
mployment status	1.2	1.0	0.6	. (
dustry	1.3	1.1	0.7	. (
ccupation	1.2	1.0	0.6	(
ass of worker	1.4	1.2	0.8	
ours per week and weeks worked in 1989	1.2	1.0	0.6	
umber of workers in family	1.4	1.2	0.7	
ace of work	1.4	1.2	0.8	
eans of transportation to work	1.4	1.2	0.8	
ravel time to work	1.3	1.1	0.7	
	1.4	1.2	0.8	
			1	
	1.3	1.1	0.7 0.7	
	1.2	1.0	0.6	
ousehold income in 1989				
amily income in 1989	1.2	1.0	0.6	
overty status in 1989 (persons)	1.6	1.3	0.8	
overty status in 1989 (families)	1.2	1.0	0.6	
rmed Forces and veteran status	1.4	1.1	0.8	
OUSING				
ge of householder	1.2	1.0	0.6	0
ace of householder	1.2	1.0	0.6	
ispanic origin of householder	1.2	1.0	0.6	. 1
ype of residence (urban/ rural)	1.1	0.9	0.6	
ondominium status	1.2	1.0	0.6	· · · ·
nits in structure	1.1	1.0	0.6	
enure	1.2	1.0	0.6	
ccupancy status	1.2	1.0	0.6	
alue	1.1	1.0	0.6	
ross rent	1.2	1.0	0.6	
ousehold income in 1989	1.2	1.0	0.6	
ear structure built	1.2	1.0	0.6	1
borns, bedrooms	1.2	1.0	0.6	
tchen facilities	1.2	1.2	0.9	
ource of water, plumbing facilities	1.4	1.1	0.6	1
wage disposal	1.1	0.9	0.5	
buse heating fuel	1.4	1.1	0.6	
elephone in housing unit	1.2	1.1	0.6	1
shephone in housing unit	1.3	1.1	0.7	
ear householder moved into structure	1.2	1.0	0.6	
ortgage status and monthly mortgage costs	1.2	1.0	0.6	
ortgage status and monthly montgage costs	1.2	1.0	0.6	
			0.6	
room root as a parageters of household income in 1000				
ross rent as a percentage of household income in 1989 ousehold income in 1989 by selected monthly owner costs	1.3	1.1	0.8	



## Table C. Standard Error Design Factors-Connecticut

[Percent of persons or housing units in sample]

OPULATION         ge.         acce         lispanic origin (of any race).         larital status         lousehold type and relationship         hiklaren ever born         /ork disability and mobility limitation status         ncestry         lace of birth         itizenship         eskdence in 1985         ear of entry         anguage spoken at home and ability to speak English.         ducational attainment.         chool enrollment.         ype of residence (urban/rural).         ousehold type         amily type.         roug quarters.         ubfamily type and presence of children.         mployment status         idustry.         occupation.         iass of worker         ours per week and weeks worked in 1989.         umber of workers in family.         lace of work.         ravel time to work.         rivate vehicle occupancy.         ime leaving home to go to work.         ype of income in 1989.	1.2 1.2 1.2 1.2 1.2 1.3 2.5 1.2 1.9 2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3 1.2 1.3 1.2 1.3 1.2	1.0 1.0 1.0 1.0 2.1 1.1 1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.6 0.6 0.6 0.5 0.5 1.2 0.5 1.2 0.5 0.8 0.9 0.9 1.0 0.6 0.8 0.8 0.8 1.0 0.5	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0
ex. ace ispanic origin (of any race). larkal status. lousehold type and relationship. hildren ever born /ork disability and mobility limitation status ncestry lace of birth itizenship esidence in 1985. ear of entry. anguage spoken at home and ability to speak English. ducational attainment. chool enroliment. ype of residence (urban/ rural). ousehold type amily type. roup quarters. ubfamily type and presence of children. mployment status dustry. cours per week and weeks worked in 1989. umber of workers in family. lace of work. leans of transportation to work rivate vehicle occupancy. me leaving home to go to work ype of income in 1989.	1.2 1.2 1.2 1.3 2.5 1.2 1.9 2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.2 1.3 1.3	1.0 1.0 0.9 1.0 2.1 1.1 1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.6 0.6 0.5 1.2 0.5 1.2 0.5 0.8 0.9 0.9 1.0 0.6 0.8 0.8 0.8 1.0	0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
ex. ace ispanic origin (of any race). larkal status. lousehold type and relationship. hildren ever born /ork disability and mobility limitation status ncestry lace of birth itizenship esidence in 1985. ear of entry. anguage spoken at home and ability to speak English. ducational attainment. chool enroliment. ype of residence (urban/ rural). ousehold type amily type. roup quarters. ubfamily type and presence of children. mployment status dustry. cours per week and weeks worked in 1989. umber of workers in family. lace of work. leans of transportation to work rivate vehicle occupancy. me leaving home to go to work ype of income in 1989.	1.2 1.2 1.2 1.3 2.5 1.2 1.9 2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.2 1.3 1.3	1.0 1.0 0.9 1.0 2.1 1.1 1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.6 0.6 0.5 1.2 0.5 1.2 0.5 0.8 0.9 0.9 1.0 0.6 0.8 0.8 0.8 1.0	0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
lace	1.2 1.2 1.3 2.5 1.2 1.9 2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.2 1.3 1.2	1.0 1.0 0.9 1.0 2.1 1.1 1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.6 0.6 0.5 1.2 0.5 0.8 0.9 0.9 1.0 0.6 0.8 0.6 0.8 1.0	0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
larital status	1.2 1.2 1.3 2.5 1.2 1.9 2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.2 1.3 1.3	1.0 0.9 1.0 2.1 1.1 1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.6 0.5 1.2 0.5 0.8 0.9 0.9 1.0 0.6 0.8 0.6 0.8 1.0	0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
larital status	1.2 1.3 2.5 1.2 1.9 2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.2 1.3 1.3	0.9 1.0 2.1 1.1 1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.5 0.5 1.2 0.5 0.8 0.9 0.9 1.0 0.6 0.8 0.6 0.8 1.0	0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
lousehold type and relationship	1.3 2.5 1.2 1.9 2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3 1.3	1.0 2.1 1.1 1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.5 1.2 0.8 0.9 0.9 1.0 0.6 0.8 0.6 0.8 1.0	0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
hildren ever born /ork disability and mobility limitation status ncestry lace of birth itizenship esidence in 1985 ear of entry anguage spoken at home and ability to speak English. ducational attainment. chool enroliment. pe of residence (urban/ rural). ousehold type amily type. iroup quarters. ubfamily type and presence of children. mployment status. idustry. ccupation. tass of worker. ours per week and weeks worked in 1989. umber of workers in family. lace of work. leans of transportation to work rivate vehicle occupancy. ime leaving home to go to work. ype of income in 1989.	2.5 1.2 1.9 2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3 1.3	2.1 1.1 1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	1.2 0.5 0.8 0.9 1.0 0.6 0.8 0.6 0.8 0.8 1.0	1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
/ork disability and mobility limitation status	1.2 1.9 2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3 1.3	1.1 1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.5 0.8 0.9 1.0 0.6 0.8 0.6 0.8 1.0	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
ncestry lace of birth itizenship esidence in 1985 ear of entry anguage spoken at home and ability to speak English ducational attainment chool enrollment chool enrollment ype of residence (urban/ rural) ousehold type roup quarters. ubfamily type and presence of children mployment status dustry ccupation iass of worker ours per week and weeks worked in 1989 umber of workers in family lace of work leans of transportation to work rivate vehicle occupancy me leaving home to go to work ype of income in 1989	2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3 1.3	1.6 1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.8 0.9 1.0 0.6 0.8 0.6 0.8 1.0	0. 0. 0. 0. 0. 0. 0. 0. 0.
lace of birth itizenship	2.0 1.8 2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3 1.3	1.7 1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.9 0.9 1.0 0.6 0.8 0.6 0.8 1.0	0. 0. 0. 0. 0. 0. 0. 0.
esklence in 1985	2.1 1.5 1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3 1.3	1.5 1.9 1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.9 1.0 0.6 0.8 0.8 1.0	0. 0. 0. 0. 0. 0. 0.
ear of entry anguage spoken at home and ability to speak English ducational attainment. chool enrollment. ype of residence (urban/rural). ousehold type anily type mouse and presence of children	1.5 1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3 1.3	1.2 1.5 1.1 1.4 1.8 1.0 1.1	0.6 0.8 0.6 0.8 1.0	0. 0. 0. 0. 0. 0.
anguage spoken at home and ability to speak English ducational attainment	1.7 1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3	1.5 1.1 1.4 1.8 1.0 1.1	0.8 0.6 0.8 1.0	0. 0. 0.
anguage spoken at home and ability to speak English ducational attainment	1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3	1.1 1.4 1.8 1.0 1.1	0.6 0.8 1.0	0. 0.
ducational attainment. chool enrollment. ype of residence (urban/ rural) ousehold type aroup quarters. ubfamily type and presence of children. mployment status. idustry. cocupation. lass of worker. ours per week and weeks worked in 1989. umber of workers in family. lace of work. leans of transportation to work. ravel time to work. rivate vehicle occupancy. me leaving home to go to work. ype of income in 1989.	1.3 1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3	1.1 1.4 1.8 1.0 1.1	0.6 0.8 1.0	0. 0.
chool enrollment	1.8 2.1 1.3 1.2 1.5 1.2 1.3 1.3	1.4 1.8 1.0 1.1	0.8 1.0	0.
ype of residence (urban/ rural)	2.1 1.3 1.2 1.5 1.2 1.3 1.3	1.8 1.0 1.1	1.0	
ousehold type         amily type         arroup quarters         ubfamily type and presence of children         mployment status         dustry         occupation         tass of worker         ours per week and weeks worked in 1989         umber of workers in family         lace of work         ravel time to work         rivate vehicle occupancy         ime leaving home to go to work         ype of income in 1989	1.3 1.2 1.5 1.2 1.3 1.3	1.0 1.1	-	0.
amily type roup quarters. ubfamily type and presence of children	1.2 1.5 1.2 1.3 1.3	1.1	0.01	0
Incure quarters. ubfamily type and presence of children	1.5 1.2 1.3 1.3		0.5	0
ubfamily type and presence of children         mployment status         idustry         iccupation         iass of worker         ours per week and weeks worked in 1989         umber of workers in family         lace of work         leans of transportation to work         rivate vehicle occupancy         me leaving home to go to work         ype of income in 1989	1.2 1.3 1.3	1.5	1.5	1
mployment status	1.3 1.3	1.0	0.5	ò
dustry	1.3	1.0	0.5	0
ccupation		1.1	0.6	0
lass of worker	1.3	1.1	0.5	0
ours per week and weeks worked in 1989 umber of workers in family ears of transportation to work ravel time to work rivate vehicle occupancy me leaving home to go to work /pe of income in 1989	1.5	1.3	0.6	ő
umber of workers in family ace of work eans of transportation to work avel time to work ivate vehicle occupancy me leaving home to go to work rpe of income in 1989	1.2	1.0	0.5	ő
ace of work eans of transportation to work avel time to work ivate vehicle occupancy me leaving home to go to work rpe of income in 1989				
eans of transportation to work avel time to work ivate vehicle occupancy me leaving home to go to work rpe of income in 1989	1.4	1.1	0.6	0
avel time to work ivate vehicle occupancy me leaving home to go to work rpe of income in 1989	1.5	1.3	0.6	0
ivate vehicle occupancy me leaving home to go to work /pe of income in 1989	1.5	1.3	0.7	0
me leaving home to go to work	1.4	1.1	0.6	0
/pe of income in 1989	1.5	1.3	0.7	0
	1.3	1.1	0.6	0
	1.4	1.2	0.6	0
ousehold income in 1989	1.2	1.1	0.5	0
overty status in 1989 (persons)	1.2	1.1	0.5	0
overty status in 1989 (families)	1.6	1.3	0.7	0
med Forces and veteran status	1.2 1.5	1.0 1.2	0.5	0
DUSING	1.5	1.2	0.0	Ŭ
ge of householder	1.2	10		
ace of householder	1.2	1.0 1.0	0.6 0.6	0
spanic origin of householder	1.2	1.0	0.6	0
pe of residence (urban/ rural)	1.1	0.9	0.6	0
ndominium status	1.2	1.1	0.5	
its in structure	1.2	1.1	0.6	0
nure	1.2	1.0	0.6	ŭ
cupancy status	1.2	1.0	0.6	ŭ
lue	1.2	1.0	0.5	ő
oss rent	1.3	1.1	0.5	ő
ousehold income in 1989	1.2	1.1	0.5	Ö
ar structure built	1.2	1.0	0.5	Ğ
oms, bedrooms	1.2	1.1	0.5	0
	1.2	1.1	0.5	C
urce of water, plumbing facilities	1.3	1.1	0.6	C
use heating fuel	1.2	1.0	0.5	0
lephone in housing unit	1.3	1.1	0.6	C
hicles available	1.3	1.1	0.6	C
ar householder moved into structure	1.3	1.1	0.6	C
	1.2	1.1	0.5	0
ortgage status and monthly mortgage costs	1.2	1.0	0.5	0
ortgage status and selected monthly owner costs	1.2	1.0	0.5	0
ross rent as a percentage of household income in 1989		1.1	0.5	0
busehold income in 1989 by selected monthly owner costs as a percentage of income	1.3	1	1	

ACCURACY OF THE DATA

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## Table C. Standard Error Design Factors-Delaware

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 perce or mo
OPULATION				
ge	1.2	1.0	0.6	0
ex	1.2	1.0	0.6	Ō
ace	1.2	1.0	0.6	0
lispanic origin (of any race)	1.2	1.0	0.6	ā
farital status	1.2	0.9	0.5	ŏ
ousehold type and relationship	1.3	1.0	0.6	ŭ
hildren ever born				
	2.5	2.2	1.4	1
ork disability and mobility limitation status	1.2	1.0	0.6	
ncestry	2.0	1.7	1.0	(
ace of birth	1.9	1.6	1.0	(
tizenship	1.8	1.5	1.0	
esidence in 1985	2.0	1.8	1.0	(
ear of entry	1.4	1.1	0.7	(
anguage spoken at home and ability to speak English	1.7	1.5	0.0	(
			0.8	
ducational attainment	1.3	1.1	0.6	0
shool enrollment	1.7	1.4	1.0	C
pe of residence (urban/ rural)	2.4	1.9	0.9	(
busehold type	1.3	1.0	0.6	(
mily type	1.2	1.0	0.5	(
roup quarters	1.0	0.8	0.8	(
bfamily type and presence of children	1.2	1.0	0.6	
nployment status	1.2	1.0	0.6	
dustry	1.3	1.1	0.6	
ccupation	1.2	1.0	0.6	
ass of worker			0.8	
	1.5	1.2		
burs per week and weeks worked in 1989	1.2	1.0	0.6	(
Imber of workers in family	1.3	1.1	0.6	(
ace of work	1.5	1.3	0.8	
eans of transportation to work	1.5	1.3	0.7	
avel time to work	1.3	1.1	0.6	
ivate vehicle occupancy	1.5	1.3	0.7	
me leaving home to go to work	1.3		0.6	
		1.1		
rpe of income in 1989	1.4	1.2	0.6	
busehold income in 1989	1.2	1.0	0.6	(
amily income in 1989	1.2	1.0	0.6	(
overty status in 1989 (persons)	1.6	1.3	0.7	
overty status in 1989 (families)	1.2	1.0	0.6	(
med Forces and veteran status	1.4	1.2	0.7	(
DUSING				
ge of householder	10	10	0.6	
	1.2	1.0		0
ace of householder	1.2	1.0	0.6	0
spanic origin of householder	1.2	1.0	0.6	-
rpe of residence (urban/rural)	1.1	0.9	0.6	(
ondominium status	1.1	1.0	0.5	
nits in structure	1.1	1.0	0.5	
onure	1.2	1.0	0.6	
ccupancy status	1.2	1.0	0.6	
alue	1.1	1.0	0.5	(
ross rent	1.2	1.0	0.5	,
busehold income in 1989	1.2	1.0	0.6	
par structure built				
	1.2	1.0	0.5	
ooms, bedrooms	1.2	1.0	0.5	(
chen facilities	1.1	1.0	0.6	(
ource of water, plumbing facilities	1.3	1.1	0.5	(
wage disposal	1.1	0.9	0.5	Ċ
buse heating fuel	1.2	1.0	0.6	Ċ
lephone in housing unit	1.2	1.1	0.6	, (
bhicles available	1.2	1.1	0.6	
ear householder moved into structure				
	1.2	1.0	0.6	(
ortgage status and monthly mortgage costs	1.1	1.0	0.5	. (
ortgage status and selected monthly owner costs	1.1	1.0	0.5	(
ross rent as a percentage of household income in 1989	1.2	1.0	0.6	(
ousehold income in 1989 by selected monthly owner costs	1			
as a percentage of income	1.1	1.0	0.5	





## Table C. Standard Error Design Factors-District of Columbia

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percen or more
OPULATION				
\ge	1.2	1.0	0.6	0.5
ex	1.2	1.0	0.6	0.5
aco	1.2	1.0	0.6	0.0
lispanic origin (of any race)	1.2	1.0	0.6	
				0.0
Aarital status	1.4	1.1	0.7	0.6
ousehold type and relationship	1.4	1.2	0.7	°0.6
Children ever born	2.7	2.1	1.3	1.1
Vork disability and mobility limitation status	1.3	1.1	0.6	0.5
ncestry	2.4	1.7	1.2	1.0
lace of birth	1.9	1.4	0.9	0.8
itizenship	2.1	1.7	1.1	0.9
lesidence in 1985	2.1	1.8	1.0	0.9
/ear of entry	1.5	1.3	0.7	0.0
-				
anguage spoken at home and ability to speak English	1.9	1.6	0.9	0.0
ducational attainment	1.4	1.2	0.7	0.6
chool enrollment	2.0	1.5	1.0	0.0
ype of residence (urban/ rural)	1.2	1.0	0.6	0.
lousehold type	1.4	1.2	0.7	0.0
amily type	1.2	1.1	0.6	0.
aroup quarters.	1.3	0.9	0.7	0.1
Subfamily type and presence of children	1.3	1.2	0.7	
				0.0
mployment status	1.4	1.2	0.7	0.0
ndustry	1.3	1.2	0.7	0.0
Decupation	1.3	1.1	0.6	0.
lass of worker	1.5	1.3	0.7	0.0
ours per week and weeks worked in 1989	1.3	1.1	0.7	0,
lumber of workers in family	1 4	1 2	0.7	•
	1.4	1.3	0.7	0.0
lace of work	1.7	1.4	0.8	0.
Means of transportation to work	1.4	1.2	0.7	0.6
ravel time to work	1.4	1.1	0.7	0.6
Private vehicle occupancy	1.4	1.3	0.7	0.6
ime leaving home to go to work	1.4	1.2	0.7	0.0
ype of income in 1989	1.5	1.2	0.7	0.0
lousehold income in 1989	1.2	1.1	0.6	0.
amily income in 1989	1.2	1.1	0.6	0.
Poverty status in 1989 (persons)	1.7			
		1.3	0.8	0.7
overty status in 1989 (families)	1.2	1.0	0.6	0.
rmed Forces and veteran status	1.8	1.4	0.9	0.
ge of householder	1.2	1.0	0.6	0.
Race of householder	1.2	1.0	0.6	0.
lispanic origin of householder	1.2	1.0	0.6	· 0.
ype of residence (urban/ rural)	1.2	1.0	0.6	0.
Condominium status	1.3	1.1	0.6	0.
Inits in structure	1.2	1.0	0.6	0,
enure	1.2	1.0	0.6	0.
Occupancy status	1.2	1.0	0.6	0.
alue	1.2	1.1	0.6	0.
iross rent	1.3	1.1	0.6	0. 0.
ousehold income in 1989	1.2	1.1	0.6	0.
ear structure built	1.2	1.1	0.6	0.
ooms, bedrooms	1.3	1.1	0.6	0.
itchen facilities	1.2	1.1	0.6	0.
ource of water, plumbing facilities	1.4	1.1	0.7	0.
ewage disposal	1.2	1.0	0.6	0.
ouse heating fuel			0.8	
	1.3	1.2		0.
elephone in housing unit	1.3	1.0	0.6	0.
ehicles available	1.3	1.1	0.6	0.
ear householder moved into structure	1.3	1.1	0.6	0.
lortgage status and monthly mortgage costs	1.2	1.1	0.6	0.
lortgage status and selected monthly owner costs	1.2	1.0	0.6	0.
		1.1	0.7	0.
Bross rent as a percentage of household income in 1989	1.31	1.1.1	U.7 1	
lousehold income in 1989 by selected monthly owner costs	1.3	•••	0.7	0.

ACCURACY OF THE DATA

### Table C. Standard Error Design Factors-Florida

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 perce or mo
POPULATION				
Age	1.2	1.0	0.6	0
Sex	1.2	1.0	0.6	0
lace	1.2	1.0	0.6	Ő
Hispanic origin (of any race)	1.2	1.0	0.6	ő
Aarital status	1.2	1.0	0.5	Ō
lousehold type and relationship	1.3	1.1	0.6	ō
hildren ever born	2.8	2.4	1.5	1
Vork disability and mobility limitation status	1.3	1.1	0.6	Ġ
ncestry	2.1	1.8	1.0	Č
lace of birth	1.8	1.5	0.9	
	1.9	1.6	1.0	
hizenship		1.8	1.0	č
Residence in 1985	2.0	1.3	0.6	
'ear of entry	1.5			
anguage spoken at home and ability to speak English	1.7	1.4	0.8	(
ducational attainment	1.4	1.1	0.6	
chool enrollment	1.9	1.6	1.0	c
ype of residence (urban/ rural)	2.2	2.2	1.0	C
ousehold type	1.3	1.1	0.6	(
amily type	1.3	1.1	0.6	(
roup quarters	1.2	1.2	1.2	
ubfamily type and presence of children	1.3	1.0	0.6	
mployment status	1.3	1.1	0.6	
dustry	1.4	1.1	0.6	· · · · · · (
Occupation	1.3	1.1	0.6	
lass of worker	1.5	1.3	0.7	
ours per week and weeks worked in 1989	1.3	1.0	0.6	
•				
umber of workers in family	1.4	1.2	0.6	
lace of work	1.6	1.3	0.7	
leans of transportation to work	1.5	1.3	0.7	(
ravel time to work	1.4	1.2	0.6	
rivate vehicle occupancy	1.5	1.3	0.7	(
ime leaving home to go to work	1.4	1.1	0.6	
ype of income in 1989	1.4	1.2	0.6	. 1
ousehold income in 1989	1.3	1.1	0.6	
amily income in 1989	1.3	1.1	0.6	1
overty status in 1989 (persons)	1.7	1.4	0.8	(
overty status in 1989 (families)	1.2	1.0	0.6	(
rmed Forces and veteran status	1.5	1.3	0.7	
OUSING				
ge of householder	1.2	1.0	0.6	
ace of householder	1.2	1.0	0.6	
ispanic origin of householder	1.2	1.0	0.6	
	1.0	1.0	0.7	
ype of residence (urban/ rural)	1.2	1.0	0.5	
nits in structure	1.2	1.0	0.5	
enure	1.2	1.0	0.6	
ccupancy status	1.2	1.0	0.6	
alue	1.2	1.0	0.6	
ross rent	1.3	1.1	0.6	
ousehold income in 1989	1.3	1.1	0.6	
ear structure built	1.2	1.0	0.5	1
ooms, bedrooms	1.2	1.1	0.6	1
itchen facilities	1.3	1.0	0.6	1
ource of water, plumbing facilities	1.4	1.1	0.6	
ewage disposal	1.2	1.0	0.6	
ouse heating fuel	1.4	1.2	0.6	
elephone in housing unit	1.3	1.1	0.6	
ehicles available	1.3	1.1	0.6	
ear householder moved into structure	1.3	1.1	0.6	
lortgage status and monthly mortgage costs	1.2	1.0	0.5	
fortgage status and selected monthly owner costs	1.2	1.0	0.5	
			0.6	
Bross rent as a percentage of household income in 1989	1.3	1.1	0.0	(
lousehold income in 1989 by selected monthly owner costs as a percentage of income		امد	0.5	
	1.2	1.0	0.51	

ACCURACY OF THE DATA

## Table C. Standard Error Design Factors-Georgia

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0		
Hispanic origin (of any race)			0.6	0.5
	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.4	1.5	1.4
Nork disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.3	2.1	1.1	1.0
Place of birth	2.3	2.2	1.3	1.1
Citizenship	1.9	1.6	0.9	0.6
Residence in 1985	2.1	1.9	1.0	
fear of entry				0.9
	1.5	1.1	0.6	0.6
anguage spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/ rural)	2.2	2.2	1.3	
				1.3
lousehold type	1.3	1,1	0.6	0.5
amily type	1.2	1.1	0.5	0.5
aroup quarters	1.0	0.8	0.8	0.3
Subfamily type and presence of children	1.3	1.0	0.5	0.5
mployment status	1.2	1.0	0.6	0.5
ndustry	1.3	1.1	0.6	0.5
Decupation	1.2	1.0		
			0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
lours per week and weeks worked in 1989	1.2	1.0	0.6	0.0
lumber of workers in family	1.4	1.2	0.6	0.6
lace of work	1.5	1.3		
			0.7	0.6
Aleans of transportation to work	1.5	1.3	0.7	0.6
ravel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
ime leaving home to go to work	1.3	1.1	0.6	0.5
ype of income in 1989	1.4	1,2	0.6	0.6
lousehold income in 1989	1.2	1.0	0.5	0.5
amily income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	
				0.7
overty status in 1989 (families)	1.2	1.0	0.5	0.5
Irmed Forces and veteran status	1.5	1.3	0.7	0.6
IOUSING				
ge of householder	1.2	1.0	0.6	0.5
lace of householder	1.2	1.0	0.6	0.5
lispanic origin of householder	1.2	1.0	0.6	0.5
ype of residence (urban/ rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
nits in structure	1.2	1.1	0.5	0.5
enure	1.2	1.0	0.6	
				0.5
occupancy status	1.2	1.0	0.6	0.5
alue	1.2	1.0	0.5	0.5
aross rent	1.2	1.1	0.5	0.5
lousehold income in 1989	1.2	1.0	0.5	0.5
ear structure built	1.2	1.0	0.5	0.5
ooms, bedrooms	1.2	1.1	0.6	0.5
itchen facilities	1.2	1.1	0.5	0.5
ource of water, plumbing facilities	1.3	1.1	0.6	0.5
ewage disposal	1.2	1.1	0.5	0.5
ouse heating fuel	1.2	1.1	0.5	0.5
elephone in housing unit	1.2	1.1	0.6	
				0.5
ehicles available	1.3	1,1	0.5	0.9
ear householder moved into structure	1.2	1.1	0.5	0.5
lortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
fortgage status and selected monthly owner costs	1.2	1.0	0.5	0.6
aross rent as a percentage of household income in 1989	1.3	1,1	0.5	0.5
lousehold income in 1989 by selected monthly owner costs			••••	0.0
as a percentage of income	1.2	1.0	0.5	0.5
	1.4	1.01	<b>U.</b>	

ACCURACY OF THE DATA

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### Table C. Standard Error Design Factors-Hawaii

[Percent of persons or housing units in sample]

theracteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percer or mor
OPULATION				
ge	1.2	1.0	0.6	0.
ex	1.2	1.0	0.6	0.
ace	1.2	1.0	0.6	0.
liepanio origin (of any race)	1.2	1.0	0.6	0.
larital status	1.1	1.0	0.6	0.
ousehold type and relationship	1.3	1.1	0.6	0.
hildren ever born	2.7	2.5	1.3	1.
ork disability and mobility limitation status	1.2	1.1	0.6	0.
ncestry	2.5	2.3	1.3	1.
lace of birth	2.0	2.0	1.0	0.
itizenship	1.7	1.5	0.9	0.
lesidence in 1985	2.1	2.0	1.0	0.
ear of entry	1.5	1.3	0.8	0
•	1.6	1.4	0.8	0.
anguage spoken at home and ability to speak English	1.3	1.2	0.7	Ō
ducational attainment.		1.6	0.9	ŏ
chool enrollment	1.8 2.4	2.4	1.2	1
ype of residence (urban/ rural)		1,1	0.6	0
lousehold type	1.3		0.6	ä
amily type	1.2	1.1	0.5	0
iroup quarters	0.9	0.9		0
ubfamily type and presence of children	1.2	1.1	0.6	
mployment status	1.3	1.1	0.6	
ndustry	1.3	1.1	0.7	
Occupation	1.2	1.1	0.6	
lass of worker	1.5	1.3	0.8	(
ours per week and weeks worked in 1989	1.2	1.1	0.6	
umber of workers in family	1.3	1.1	0.6	(
ace of work	1.6	1.4	0.8	(
eans of transportation to work	1.4	1.3	0.7	(
ravel time to work	1.3	1.2	0.7	(
rivate vehicle occupancy	1.4	1.3	0.7	C
ime leaving home to go to work	1.3	1.2	0.7	C
vpe of income in 1989	1.4	1.2	0.7	(
ousehold income in 1989	1.2	1.1	0.6	(
amily income in 1989	1.2	1.1	0.6	
overty status in 1989 (persons)	1.6	1.4	0.8	(
overty status in 1989 (families)	1.2	1.0	0.6	(
rmed Forces and veteran status	1.5	1.3	0.8	(
OUSING				
ge of householder	1.2	1.0	0.6	
ace of householder	1.2	1.0	0.6	
ispanic origin of householder	1.2	1.0	0.6	
ype of residence (urban/ rural)	1.1	1.1	0.5	!
ondominium status	1.2	1.1	0.6	4
nits in structure	1.2	1.1	0.6	1
enure	1.2	1.0	0.6	1
ocupancy status	1.2	1.0	0.6	
alue	1.2	1.1	0.6	
ross rent	1.2	1.1	0.6	
ousehold income in 1989	1.2	1.1	0.6	
ear structure built	1.2	1.1	0.6	
ooms, bedrooms,	1.2	1.1	0.6	
	1.3	1.3	0.6	
itchen facilities		1.2	0.6	
ource of water, plumbing facilities	1.3	1.1	0.6	
ewage disposal		1.1	0.6	
ouse heating fuel	1.3 1.3	1.1	0.6	
elephone in housing unit		1.1	0.6	
ehicles available	1.2		0.6	
ear householder moved into structure	1.2	1.1		
Nortgage status and monthly mortgage costs	1.2	1.1	0.6	
Nortgage status and selected monthly owner costs	1.2	1.0	0.6	
aross rent as a percentage of household income in 1989	1.2	1.1	0.6	
lousehold income in 1989 by selected monthly owner costs		[		
as a percentage of income	1.2	1.1	0.6	

ACCURACY OF THE DATA

# Table C. Standard Error Design Factors-Idaho

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.0	0.9	0.6	0.4
Household type and relationship	1.3	1.1	0.7	0.5
Children ever born	2.5	2.3	1.6	1.2
Ancestry	1.2	1.0	0.6	0.5
Place of birth	1.9 1.8	1.7 1.6	1.1	3.0
Citizenship	1.6	1.4	1.0	0.8 0.7
Residence in 1985	2.1	1.8	1.2	0.9
Year of entry	1.4	1.1	0.7	0.5
Language spoken at home and ability to speak English			0.9	
Educational attainment.	1.6 1.2	1.4 1.1	0.9	0.7
School enrollment	1.6	1.4		0.5
Type of residence (urban/ rural)	2.9	2.4	1.0 2.0	0.7 1.4
Household type	1.3	1.1	0.7	0.5
amily type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.9	0.8	3.0
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.1	1.0	0.6	0.5
ndustry	1.3	1.1	0.7	0.5
Dccupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.1	0.7	0.5
lours per week and weeks worked in 1989	1.1	1.0	0.6	0.0
lumber of workers in family	1.3	1.1	0.7	0.5
Place of work	1.4	1.2	0.8	0.6
leans of transportation to work	1.4	1.2	0.7	0.6
ravel time to work	1.3	1.1	0.7	0.6
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
ype of income in 1989	1.3	1.1	0.7	0.5
lousehold income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.9	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
	1.3	1.1	0.7	0.5
Age of householder	1.2	1.0	0.6	0.5
lace of householder	1.2	1.0	0.6	0.5
ype of residence (urban/ rurai)	1.2	1.0 0.9	0.6 0.6	0.5 0.5
Condominium status	1.2	1.0	0.6	0.5
Inits in structure	1.2	1.0	0.6	0.5
enure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
alue	1.2	1.0	0.6	0.5
ross rent	1.2	1.0	0.6	0.5
ousehold income in 1989	1.2	1.0	0.6	0.5
ear structure built	1.1	1.0	0.6	0.9
ooms, bedrooms	1.2	1.0	0.6	0.9
tchen facilities	1.1	1.1	0.6	0.
ource of water, plumbing facilities	1.4	1.1	0.6	0.
ewage disposal	1.1	0.9	0.5	0.4
ouse heating fuel	1.2	1.0	0.6	0.5
elephone in housing unit	1.2	1.1	0.6	0.5
ehicles available	1.3	1.1	0.7	0.5
ear householder moved into structure	1.2	1.0	0.6	0.5
ortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
lortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
ross rent as a percentage of household income in 1989	1.2	1.0	0,6	0.5
lousehold income in 1989 by selected monthly owner costs				
as a percentage of income	1.1	1.0	0.6	0.5

ACCURACY OF THE DATA

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## Table C. Standard Error Design Factors--Illinois

[Percent of persons or housing units in sample]

haracteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percer or mor
OPULATION				
ge	1.2	1.0	0.6	0.
×	1.2	1.0	0.6	0.
ace	1.2	1.0	0.6 0.6	0.
spanic origin (of any race)	1.2	1.0	0.5	0.
arital status	1.2	0.9	0.6	0.
ousehold type and relationship	1.3 2.6	1.1	1.3	1.
	1.2	1.0	0.5	0.
ork disability and mobility limitation status	2.1	1.7	0.9	0
ncestry	2.3	2.1	1.2	1.
ace of birth	1.8	1.5	0.8	0
tizensnip	2.1	1.9	1.0	0
ear of entry	1.5	1.2	0.6	0
		1.4	0.7	0
anguage spoken at home and ability to speak English	1.7	1.1	0.6	0
ducational attainment	1.3	1.4	0.8	ő
chool enrollment	1.8	2.3	1.3	Ğ
pe of residence (urban/ rural)	1.3	1.1	0.6	
ousehold type	1.2	1.1	0.5	Ċ
amily type	1.0	0.9	0.8	č
roup quarters.	1.2	1.0	0.5	Ċ
ubfamily type and presence of children	1.3	1.0	0.5	(
mployment status	1.3	1.1	0.6	Ċ
dustry	1.3	1.0	0.5	Ċ
ass of worker	1.5	1.2	0.6	
ours per week and weeks worked in 1989	1.2	1.0	0.5	(
	1			
umber of workers in family	1.4	1.1	0.6	
ace of work	1.5	1.3	0.6 0.6	
eans of transportation to work	1.5	1.2	0.6	
ravel time to work	1.3	1.1	0.6	
rivate vehicle occupancy	1.5	1.3	0.6	
me leaving home to go to work	1.3	1.1	0.6	
/pe of income in 1989	1.4	1.2	0.5	
ousehold income in 1989	1.2	1.0	0.5	
amily income in 1989	1.7	1.4	0.7	1
overty status in 1989 (persons)	1.2	1.0	0.5	
overty status in 1989 (families)	1,6	1.2	0.6	
	1.0			
OUSING				
ge of householder	1.2	1.0	0.6	
ace of householder	1.2	1.0 1.0	0.6 0.6	
ispanic origin of householder	1.2	1.0	0.6	
ype of residence (urban/ rural)	1.1 1.2	1.1	0.5	
ondominium status	1.2	1.1	0.5	
nits in structure	1.2	1.0	0.6	
enure	1.2	1.0	0.6	
ccupancy status	1.2	1.0	0.5	
ross rent.	1.3	1.1	0.5	
ousehold income in 1989	1.2	1.0	0.5	
ear structure built	1.2	1.0	0.5	
		1.1	0.5	
ooms, bedrooms	1.2	1.1	0.5	
itchen facilities	1.3	1.1	0.6	
ource of water, plumbing facilities	1.3	1.0	0.5	
ewage disposal	1.4	1.1	0.6	
ouse heating fuel	1.4	1.1	0.6	
elephone in housing unit	1.3	1.1	0.6	
ehicles available	1.3	1.0	0.5	
ear householder moved into structure	1.2	1.0	0.5	
fortgage status and monthly mortgage costs	1.2	1.0	0.5	
Nortgage status and selected monthly owner costs	1.3	1.1	0.5	
aross rent as a percentage of household income in 1989	1.0			
ousehold income in 1989 by selected monthly owner costs	I	1	1	



## Table C. Standard Error Design Factors-Indiana

[Percent of persons or housing units in sample]

haracteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 perce or mo
OPULATION				
<b>j</b> e	1.2	1.0	0.6	0
Эх	1.2	1.0	0.6	Ō
ace	1.2	1.0	0.6	õ
spanic origin (of any race)	1.2	1.0	0.6	Ō
arital status	1.1	0.9	0.5	ā
busehold type and relationship	1.3	1.0	0.5	ő
hildren ever born	2.6	2.3	1.3	1
ork disability and mobility limitation status	1.2	1.0	0.5	Ċ
ncestry	2.0	1.8	0.9	Č
ace of birth	2.3	2.1		
tizenship			1.1	
azenanip	1.8	1.5	0.8	
	2.1	1.9	1.0	0
ear of entry	1.3	1.1	0.6	(
nguage spoken at home and ability to speak English	1.7	1.4	0.7	(
ducational attainment	1.3	1.1	0.6	Ċ
phool onrollmont	1.7	1.4	0.8	č
pe of residence (urban/ rural)	2.7	2.7	1.0	
busehold type	1.3	1.0	0.5	(
mily type	1			
roup quarters.	1.2	1.0	0.5	
	0.9	0.9	0.8	1
bfamily type and presence of children	1.2	1.0	0.5	1
nployment status	1.2	1.0	0.5	4
dustry	1.3	1.1	0.6	
coupation	1.2	1.0	0.5	
ass of worker	1.4	1.2	0.6	
ours per week and weeks worked in 1989	1.2	1.0	0.5	
mber of workers in family	1 9			
	1.3	1.1	0.6	
ace of work	1.4	1.2	0.6	
eans of transportation to work	1.4	1.2	0.6	1
avel time to work	1.3	1.1	0.6	1
vate vehicle occupancy	1.4	1.2	0.6	
ne leaving home to go to work	1.3	1.1	0.5	1
pe of income in 1989	1.4	1.2	0.6	
ousehold income in 1989	1.2	1.0	0.5	
mily income in 1989	1.2	1.0	0.5	
verty status in 1989 (persons)	1.6	1.4	0.7	
verty status in 1989 (families)	1.2	1.0	0.5	
med Forces and veteran status	1.4	1.1	0.6	
DUSING	1.4		0.0	
e of householder				
	1.2	1.0	0.6	
ace of householder	1.2	1.0	0.6	
spanic origin of householder	1.2	1.0	0.6	
pe of residence (urban/ rural)	1.0	1.0	0.6	1
ndominium status	1.2	1.0	0.5	
its in structure	1.2	1.1	0.5	
nure	1.2	1.0	0.6	1
cupancy status	1.2	1.0	0.6	
lue	1.2	1.0	0.5	
oss rent	1.2	1.0	0.5	
ousehold income in 1989	1.2	1.0	0.5	
ar structure built	1.2	1.0	0.5	
		1.0		
oms, bedrooms	1.2	1.0	0.5	· .
chen facilities	1.2	1.1	0.5	
urce of water, plumbing facilities	1.3	1.1	0.6	(
wage disposal	1.1	1.0	0.5	(
use heating fuel	1.3	1.0	0.5	
lephone in housing unit	1.2	1.1	0.6	
hicles available	1.2	1.1	0.6	
ar householder moved into structure	1.2	1.0	0.5	
ortgage status and monthly mortgage costs	1.1	, ,		
		1.0	0.5	
ortgage status and selected monthly owner costs	1.1	1.0	0.5	(
and south on a management of have a half because the space				
oss rent as a percentage of household income in 1989 busehold income in 1989 by selected monthly owner costs	1.2	1.1	0.5	I

ACCURACY OF THE DATA

## Table C. Standard Error Design Factors-lowa

[Percent of persons or housing units in sample]

haracteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percer or mor
OPULATION				_
ge	1.2	1.0	0.6	0.
ex	1.2	1.0	0.6	0.
ace	1.2	1.0	0.6	0.
lispanic origin (of any race)	1.2	1.0	0.6	0.
Aarital status	1.1	0.9	0.5	0
lousehold type and relationship	1.2	1.0	0.6	0
hildren ever born	2.6	2.4	1.5	1
Vork disability and mobility limitation status	1.2	1.0	0.5	0
ncestry	1.9	1.6	0.8	0
lace of birth	2.3	2.2	1.1	1
Xizenship	1.7	1.4	0.7	0
esidence in 1985	2.0	1.9	0.9	0
ear of entry	1.4	1.1	0.6	C
anguage spoken at home and ability to speak English	1.6	1.4	0.7	C
ducational attainment	1.3	1.1	0.6	c
	1.6	1.4	0.7	C
vpe of residence (urban/ rural)	2.1	2.1	0.9	C
ousehold type	1.2	1.0	0.6	C
amily type	1.2	1.0	0.5	C
anny type	0.9	0.9	0.8	c
ubfamily type and presence of children	1.2	0.9	0.5	C
mployment status	1.2	1.0	0.5	(
ndustry	1.3	1.1	0.6	(
coupation	1.2	1.0	0.5	(
	1.4	1.2	0.6	(
ours per week and weeks worked in 1989	1.2	1.0	0.5	(
umber of workers in family	1.3	1.1	0.6	
lace of work	1.5	1.2	0.6	
leans of transportation to work	1.4	1.2	0.6 0.6	
ravel time to work	1.3	1.1		1
rivate vehicle occupancy	1.4	1.2	0.6	
ime leaving home to go to work	1.3	1.1	0.6	
ype of income in 1989	1.4	1.2	0.6	
lousehold income in 1989	1.2	1.0	0.5	
amily income in 1989	1.2	1.0	0.5	
overty status in 1989 (persons)	1.6	1.4	0.7	
overty status in 1989 (families)	1.2	1.0	0.5	
Irmed Forces and veteran status	1.3	1.1	0.6	
OUSING				
ge of householder	1.2	1.0	0.6	
lace of householder	1.2	1.0	0.6	
lispanic origin of householder	1.2	1.0	0.6	
ype of residence (urban/ rural)	1.0	1.0	0.6	
Condominium status	1.2	1.0	0.5	
Inits in structure	1.2	1.1	0.5	2 C
enure	1.2	1.0	0.6	
Occupancy status	1.2	1.0	0.6	
alue	1.2	1.0	0.5	
Bross rent	1.2	1.0	0.5	
lousehold income in 1989	1.2	1.0	0.5	
ear structure built	1.2	1.0	0.5	
Rooms, bedrooms	1.2	1.0	0.5	
(itchen facilities	1.1	1.1	0.5	
Source of water, plumbing facilities	1.4	1.1	0.6	
Sewage disposal	1.2	1.0	0.5	
louse heating fuel	1.3	1.1	0.5	
	1.2	1.1	0.5	
elephone in housing unit	1.2	1.1	0.6	
	1.3	1.0	0.5	
ear householder moved into structure	1.2	1.0	0.5	
Nortgage status and monthly mortgage costs	1.2	1.0	0.5	
Nortgage status and selected monthly owner costs		1.0	0.5	
Gross rent as a percentage of household income in 1989	1.2	1.0	0.0	
Household income in 1989 by selected monthly owner costs	• • •	10	0.5	
as a percentage of income	1.2	1.0	0.0	

## Table C. Standard Error Design Factors---Kansas

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percer or mor
OPULATION				
\ge	1.2	1.0	0.6	0,
Sex	1.2	1.0	0.6	
lace	1.2	1.0		0.
lispanic origin (of any race)			0.6	0.
	1.2	1.0	0.6	0.
farital status	1.1	0.9	0.6	0.
lousehold type and relationship	1.2	1.1	0.6	0.
Children ever born	2.5	2.3	1.7	1.
ork disability and mobility limitation status	1.2	1.0	0.6	0.
ncestry	2.0	1.7	1.0	0.0
lace of birth	1.9	1.9	1.2	1.
itizenship	1.7	1.5	0.9	0.
esidence in 1985	2.0	1.8	1.1	0.
ear of entry	1.4	1.2	0.6	0.
				0.
anguage spoken at home and ability to speak English	1.6	1.4	0.8	0.
ducational attainment	1.3	1.1	0.7	0.
chool enrollment	1.6	1.4	0.9	0.
ype of residence (urban/ rural)	2.4	2.4	1.8	0.
ousehold type	1.2	1.1	0.6	0.
amily type	1.2	1.0		
iroup quarters.	0.9	0.9	0.6	0.
			0.9	0.
ubfamily type and presence of children	1.2	0.9	0.5	0.
mployment status	1.2	1.0	0.6	0.
dustry	1.3	1.1	0.6	0.
ccupation	1.2	1.0	0.6	0.
lass of worker	1.4	1.2	0.7	0.
ours per week and weeks worked in 1989	1.2	1.0	0.6	0.
			1	0.
umber of workers in family	1.3	1.2	0.7	0.
ace of work	1.4	1.3	0.7	0.
eans of transportation to work	1.4	1.2	0.7	0.
ravel time to work	1.3	1.1	0.6	0.
rivate vehicle occupancy	1.4	1.3	0.7	0.0
me leaving home to go to work	1.3	1.1	0.6	
/pe of income in 1989	1.4			0.
ousehold income in 1989		1.2	0.7	0.
	1.2	1.0	0.6	0.
amily income in 1989	1.2	1.0	0.6	0.
overty status in 1989 (persons)	1.6	1.4	0.8	0.
overty_status in 1989 (families)	1.2	1.0	0.6	0.
med Forces and veteran status	1.3	1.1	0.7	0.
OUSING				
ge of householder	1.2	1.0	0.6	0.0
ace of householder	1.2	1.0	0.6	0.
spanic origin of householder	1.2	1.0	0.6	0.
/pe of residence (urban/ rural)	1.0	1.0	0.6	0.
ondominium status	1.2	1.0	0.6	0.
nits in structure	1.2	1.1	0.6	0.
enure	1.2	1.0	1	
			0.6	0.
ccupancy status	1.2	1.0	0.6	0.
alue	1.2	1.0	0.6	0.
ross rent	1.2	1.0	0.6	0.
busehold income in 1989	1.2	1.0	0.6	0.
ear structure built	1.2	1.0	0.6	0.
ooms, bedrooms	1.2	1.0	0.6	
				0.
tchen facilities	1.2	1.2	0.9	0.
burce of water, plumbing facilities	1.4	1.2	0.7	0.
wage disposal	1.1	1.0	0.5	0.
buse heating fuel	1.3	1.1	0.6	0,
lephone in housing unit	1.2	1.1	0.6	0.
phicles available	1.3	1.1	0.6	0.
ear householder moved into structure	1.2	1.0	0.6	
ortgage status and monthly mortgage costs				0.
	1.1	1.0	0.5	0,
ortgage status and selected monthly owner costs	1.1	1.0	0.5	0.
ross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.
ousehold income in 1989 by selected monthly owner costs				
as a percentage of income				

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## Table C. Standard Error Design Factors-Kentucky

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 perc or me
OPULATION				
\ge	1.2	1.0	0.6	
Sex	1.2	1.0	0.6	
Race	1.2			
lispanic origin (of any race)		1.0	0.6	
	1.2	1.0	0.6	
Aarital status	1.1	0.9	0.5	
lousehold type and relationship	1.2	1.0	0.6	(
Children ever born	2.8	2.4	1.5	
Vork disability and mobility limitation status	1.2	1.0	0.6	(
ncestry	2.2	1.9	1.0	
Place of birth	2.5	2.2	1.1	
Xizenship	1.8	1.5	0.9	
esidence in 1985				
	2.0	1.8	1.0	
ear of entry	1.3	1.1	0.6	
anguage spoken at home and ability to speak English	1.6	1.4	0.8	1
ducational attainment	1.3	1.1	0.6	
	1.7	1.5	0.8	
pe of residence (urban/ rural)	2.5	2.5	1.1	
ousehold type	1.2	1.0	0.6	
amily type	1.2	1.0	0.6	
roup quarters	1.0	1.0	0.8	
ubfamily type and presence of children	1.2	1.0	0.6	
mployment status	1.2			
		1.0	0.6	
dustry	1.2	1.1	0.6	
ccupation	1.2	1.0	0.6	
lass of worker	1.4	1.2	0.6	
ours per week and weeks worked in 1989	1.2	1.0	0.6	
-				
umber of workers in family	1.3	1.1	0.6	
ace of work	1.4	1.2	0.7	
eans of transportation to work	1.4	1.2	0.7	
ravel time to work	1.3	1.1	0.6	
rivate vehicle occupancy	1.4	1.2	0.7	
ime leaving home to go to work	1.2		0.6	
		1.1		
ype of income in 1989	1.3	1.2	0.6	
ousehold income in 1989	1.2	1.0	0.6	
amily income in 1989	1.2	1.0	0.6	
overty status in 1989 (persons)	1.6	1.4	0.8	
overty status in 1989 (families)	1.2	1.0	0.5	
med Forces and veteran status	1.4	1.2	0.7	
OUSING	1.4	1.2	0.7	
ge of householder	1.2	1.0	0.6	
ace of householder	1.2	1.0	0.6	
spanic origin of householder	1.2	1.0	0.6	
pe of residence (urban/ rural)	1.1	1.0	0.6	
ondominium status	1.2	1.0	0.6	
nits in structure	1.2	1.0	0.5	
anure				
	1.2	1.0	0.6	
ccupancy status	1.2	1.0	0.6	
alue	1.2	1.0	0.6	
ross rent	1.2	1.0	0.6	
ousehold income in 1989	1.2	1.0	0.6	
ear structure built	1.2	1.0	0.6	
poms, bedrooms.	1.2	1.0	0.6	
tchen facilities	1.2	1.2	0.6	
ource of water, plumbing facilities	1.3	1.2	0.7	
wage disposal	1.2	1.0	0.6	
buse heating fuel	1.2	1.0	0.6	
elephone in housing unit	1.2	1.1	0.6	
shicles available	1.2	1.1	0.6	
ear householder moved into structure	1.2	1.0	0.6	
ortgage status and monthly mortgage costs	1.1	1.0	0.5	
ortgage status and selected monthly owner costs	1.1	1.0	0.5	
ross rent as a percentage of household income in 1989				
aussheld in some in 1020 by sale to the monthly and the	1.2	1.0	0.6	
ousehold income in 1989 by selected monthly owner costs as a percentage of income			. 1	
	1.1	1.0	0.5	

ACCURACY OF THE DATA

## Table C. Standard Error Design Factors-Louisiana

[Percent of percene or housing units in sample]

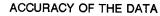
Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.8	2.6	1.5	1.4
Work disability and mobility limitation status	1.2	1.1	0.5	0.5 1.0
Ancestry	2.3	2.0	1.1	1.2
Place of birth	2.7	2.5 1.6	1.4 0.8	0.7
Citizenship	1.9	2.0	1.1	0.9
Residence in 1985	2.2 1.4	2.0	0.6	0.0
•		1		
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.6
School enrollment	1.7	1.5 2.2	0.8	0.7 0.9
Type of residence (urban/ rural)	2.2		1.3	0.8
	1.3	1.1 1.1	0.6 0.6	0.0
Family type	0.9	0.9	0.8	0.0
Group quarters	1.2	1.0	0.6	0.5
	1.2	1.0	0.6	0.0
Employment status	1.3	1.1	0.6	0.5
Industry	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
•				0.5
Number of workers in family	1.3	1.1	0.6	
Place of work	1.4	1.2	0.6	0.5
Means of transportation to work	1.4	1.2 1.1	0.6 0.6	0.6 0.5
Travel time to work	1.3 1.4	1.2	0.6	0.6
	1.3	1.1	0.6	0.5
Time leaving home to go to work	1.4	1.2	0.6	0.0
Type of income in 1989	1.2	1.0	0.5	0.1
Family income in 1989	1.2	1.0	0.5	0.9
Poverty status in 1989 (persons)	1.7	1.5	0.8	0.3
Poverty status in 1989 (families)	1.2	1.0	0.5	0.9
Armed Forces and veteran status	1.5	1.3	0.7	0.0
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.9
Units in structure	1.2	1.1	0.6	0.
Tenure	1.2	1.0	0.6	0.9
Occupancy status	1.2	1.0	0.6	0.
Value	1.2	1.1	0.5	0.9
Gross rent	1.2	1.1	0.5	0.
Household income in 1989	1.2	1.0	0.5	0.
Year structure built	1.2	1.0	0.5	0.
Rooms, bedrooms	1.2	1.1	0.5	0.
Kitchen facilities	1.2	1.2	0.5	0.
Source of water, plumbing facilities	1.2	1.1	0.6	0.
Sewage disposal	1.2	1.0	0.5	0.
House heating fuel	1.2	1.1	0.6	0.
Telephone in housing unit	1.2	1.1	0.6	0.
Vehicles available	1.2	1.1	0.5	0.
Year householder moved into structure	1.2	1.1	0.5	0.
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.
Gross rent as a percentage of household income in 1989	1.3	1.1	0.5	0.
Household income in 1989 by selected monthly owner costs				
as a percentage of income	1.2	1.0	0.5	0.

ACCURACY OF THE DATA

### Table C. Standard Error Design Factors-Maine

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percer or more
POPULATION				
Age	1.2	1.0	0.6	0.9
Sex	1.2	1.0	0.6	0.
Race	1.2	1.0	0.6	0.
Hispanic origin (of any race)	1.2	1.0	0.6	0.
Marital status	1.1	0.9	0.5	0.
Household type and relationship	1.2	1.1	0.6	0.
Children ever born	2.6	2.3	1.3	1.
Nork disability and mobility limitation status	1.2	1.0	0.6	0.
Ancestry	1.9	1.7	1.0	0.
Place of birth	2,1	2.0	1.2	
Xitzenship	1.8	1.5	0.9	1.
Residence in 1985	2.0	1.8		0.
ear of entry			1.0	0
	1.3	1.1	0.6	0
anguage spoken at home and ability to speak English	1.6	1.4	0.8	0.
ducational attainment	1.3	1.1	0.6	0.
School enrollment	1.7	1.5	0.9	0.
ype of residence (urban/ rural)	2.2	1.9	0.9	0.
lousehold type	1.2	1.1	0.6	0
amily type	1.2	1.0	0.6	0.
aroup quarters	0.9	0.9	0.7	0.
ubfamily type and presence of children	1.2	1.0	0.5	0
mployment status	1.2	1.0	0.6	0.
ndustry	1.3	1.1	0.6	0
Decupation	1.2	1.0	0.6	0.
lass of worker	1.4	1.2	0.7	0
lours per week and weeks worked in 1989	1.2	1.0	0.6	
•		1.0	0.0	0.
lumber of workers in family	1.3	1.1	0.6	0.
lace of work.	1.4	1.2	0.7	0.
leans of transportation to work	1.5	1.3	0.7	0.
ravel time to work	1.3	1.1	0.6	0.
rivate vehicle occupancy	1.5	1.3	0.7	0.
ime leaving home to go to work	1.3	1.1	0.6	0.
ype of income in 1989	1.3	1.1	0.6	0.
ousehold income in 1989	1.2	1.0	0.5	0.
amily income in 1989	1.2	1.0	0.6	0.
overty status in 1989 (persons)	1.5	1.3	0.8	0.
overty statue in 1989 (families)	1.2	1.0	0.6	0. 0.
rmed Forces and veteran status	1.4	1.2	0.7	0.
IOUSING		1.2	0.7	0.
ge of householder	1.2	1.0	0.6	0
lace of householder	1.2	1.0	0.6	0.9 0.9
ispanic origin of householder	1.2	1.0	0.6	
ype of residence (urban/ rural)	1.0	0.9		0.
ondominium status.			0.5	0.
nits in structure.	1.2	1.0	0.5	0.
	1.2	1.0	0.5	0.
enure	1.2	1.0	0.6	0.
ccupancy status	1.2	1.0	0.6	0.
	1.2	1.0	0.6	0.
ross rent.	1.2	1.0	0.5	0.
ousehold income in 1989	1.2	1.0	0.5	0.9
ear structure built	1.2	1.0	0.5	0.
ooms, bedrooms	1.2	1.0	0.5	0.
itchen facilities	1.3	1.3	0.6	0.
ource of water, plumbing facilities	1.3	1.0	0.6	0.
ewage disposal	1.1	0.9	0.5	0.
ouse heating fuel	1.2	1.1	0.6	
elephone in housing unit	1.2			0.9
ehicles available		1.1	0.6	0.
ear householder moved into structure	1.3	1.1	0.6	0.
ortrage statue and menthly methods and	1.2	1.0	0.6	0.
ortgage status and monthly mortgage costs	1.2	1.0	0.5	0.
ortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
ross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.9
ousehold income in 1989 by selected monthly owner costs as a percentage of income				
a parcantaga of income	1.1	1.0	0.5	0.



#### Table C. Standard Error Design Factors-Maryland

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percen or more
POPULATION			·····	
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.6	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.2	1.4	1.1
Nork disability and mobility limitation status	1.2	1.1	0.6	0.8
Ancestry	2.1	1.7	1.0	3.0
Place of birth	2.0	1.6	1.0	0.7
Citizenship	1.8	1.5	0.9	0.0
Residence in 1985	2.0	1.8	1.0	3.0
fear of entry	1.5	1.3	0.7	0.6
anguage spoken at home and ability to speak English	1.7	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.6
School enrollment	1.7	1.4	0.9	0.6
Type of residence (urban/ rural)	2.1	2.1	1.1	9.0
lousehold type	1.3	1.0	0.6	0.
amily type	1.2	1.1	0.6	0.
Group quarters	1.0	0.9	0.8	0.0
Subfamily type and presence of children	1.2	1.0	0.6	0.
Employment status	1.2	1.0	0.6	0.
ndustry	1.3	1.1	0.6	0.
	1.2	1.1	0.6	0.4
Class of worker	1.4	1.3	0.7	0.0
lours per week and weeks worked in 1989	1.2	1.0	0.6	0.
Number of workers in family	1.4	1.1	0.6	0.
Place of work	1.5	1.3	0.8	0.0
Means of transportation to work	1.4	1.3	0.7	0.0
Fravel time to work	1.3	1.1	0.6	0.9
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.
Type of income in 1989	1.4	1.2	0.7	0.
Household income in 1989	1.2	1.0	0.6	0.
Family income in 1989	1.2	1.0	0.6	0.
Poverty status in 1989 (persons)	1.6 1.2	1.3 1.0	0.7 0.6	0.1 0.1
Poverty status in 1989 (families)	1.2	1.0	0.8	0.
	1.5	1.2	0.7	0.3
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.
lispanic origin of householder	1.2	1.0	0.6	0.
Type of residence (urban/ rural)	1.1	1.0	0.6	0.9
Condominium status	1.2	1.0	0.6	0.
Units in structure	1.1	1.0	0.6	0.
ſenure	1.2	1.0	0.6	0.
Dccupancy status	1.2	1.0	0.6	0.
/alue	1.2	1.0	0.6	0.
Bross rent	1.2	1.1	0.6	0.
lousehold income in 1989	1.2	1.0	0.6	0.
ear structure built	1.2	1.0	0.6	0.
Rooms, bedrooms	1.2	1.1	0.6	0.
(itchen facilities	1.2	1.0	0.5	0.
Source of water, plumbing facilities	1.3	1.1	0.6	0.
Sewage disposal	1.1	1.0	0.6	0.
House heating fuel	1.2	1.0	0.6	0.
Telephone in housing unit	1.2	1.1	0.6	0.
Vehicles available	1.2	1.1	0.6	0.
Year householder moved into structure	1.2	1.1	0.6	0.
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.
Household income in 1989 by selected monthly owner costs				
as a percentage of income	1.2	1.0	0.6	0.