

APPENDIX C—Continued

**TABLE C. Approximate Standard Error of Estimated Percentage Based on 20-Percent Sample**  
(Range of 2 chances out of 3; for factors to be applied see table D and text)

| Estimated percentage | Base of percentage |       |       |        |        |         |         |
|----------------------|--------------------|-------|-------|--------|--------|---------|---------|
|                      | 500                | 1,000 | 2,500 | 10,000 | 25,000 | 100,000 | 250,000 |
| 2 or 98 . . . . .    | 1.3                | 0.9   | 0.6   | 0.3    | 0.2    | 0.1     | 0.1     |
| 5 or 95 . . . . .    | 2.0                | 1.4   | 0.9   | 0.4    | 0.3    | 0.1     | 0.1     |
| 10 or 90 . . . . .   | 2.7                | 1.9   | 1.2   | 0.6    | 0.4    | 0.2     | 0.1     |
| 25 or 75 . . . . .   | 3.9                | 2.7   | 1.7   | 0.9    | 0.5    | 0.3     | 0.2     |
| 50 . . . . .         | 4.5                | 3.2   | 2.0   | 1.0    | 0.6    | 0.3     | 0.2     |

**TABLE D. Factor to be Applied to Standard Errors**

| Characteristic                          | Sample rate (percent) | Factor <sup>1</sup> | Characteristic                          | Sample rate (percent) | Factor <sup>1</sup> |
|---|-----------------------|---------------------|---|-----------------------|---------------------|
| <b>INVENTORY</b>                        |                       |                     | <b>STRUCTURAL CHARACTERISTICS</b>       |                       |                     |
| Urban-rural residence . . . . .         | 20                    | 0.3                 | Units in structure . . . . .            | 20                    | 0.8                 |
| Farm-nonfarm residence . . . . .        | 20                    | 0.9                 | Year structure built . . . . .          | 20                    | 0.9                 |
| <b>OCCUPANCY CHARACTERISTICS</b>        |                       |                     | Basement . . . . .                      | 20                    | 0.9                 |
| Negro heads of households . . . . .     | 20                    | 1.0                 | <b>EQUIPMENT, FUELS, AND APPLIANCES</b> |                       |                     |
| Spanish heritage <sup>1</sup> . . . . . | 15                    | 1.0                 | Telephone available . . . . .           | 20                    | 0.5                 |
| Tenure . . . . .                        | 20                    | 0.2                 | Heating equipment . . . . .             | 20                    | 0.8                 |
| <b>VACANCY CHARACTERISTICS</b>          |                       |                     | House heating fuel . . . . .            | 5                     | 2.1                 |
| Vacancy status . . . . .                | 20                    | 0.8                 | Appliances . . . . .                    | 5                     | 1.8                 |
| Duration of vacancy . . . . .           | 20                    | 0.9                 | <b>FINANCIAL CHARACTERISTICS</b>        |                       |                     |
| <b>UTILIZATION CHARACTERISTICS</b>      |                       |                     | Value:                                  |                       |                     |
| Rooms . . . . .                         | 20                    | 1.0                 | Owner-occupied units . . . . .          | 20                    | 1.0                 |
| Size of household (persons) . . . . .   | 20                    | 0.5                 | Vacant for sale . . . . .               | 20                    | 1.0                 |
| Persons per room . . . . .              | 20                    | 0.4                 | Contract rent:                          |                       |                     |
| Bedrooms . . . . .                      | 5                     | 2.2                 | Renter-occupied units . . . . .         | 20                    | 1.0                 |
| <b>PLUMBING CHARACTERISTICS</b>         |                       |                     | Vacant for rent . . . . .               | 20                    | 1.0                 |
| Plumbing facilities . . . . .           | 20                    | 1.0                 | Gross rent . . . . .                    | 20                    | 1.0                 |
| Piped water . . . . .                   | 20                    | 1.0                 | <b>ALL OTHER</b>                        |                       |                     |
| Flush toilet . . . . .                  | 20                    | 1.0                 | 20 percent . . . . .                    | 20                    | 1.0                 |
| Source of water . . . . .               | 15                    | 1.0                 | 15 percent . . . . .                    | 15                    | 1.2                 |
| Sewage disposal . . . . .               | 15                    | 0.9                 | 5 percent . . . . .                     | 5                     | 2.2                 |

<sup>1</sup> Tabulations of housing data for households with heads of Spanish heritage are based on the 15-percent sample. For characteristics shown in this table as based on the 20-percent sample, the factor for households with heads of Spanish heritage is obtained by multiplying the appropriate factor in this table by 1.2. For characteristics shown as based on the 15-percent sample, the factor in this table can be used directly.

## Appendix D.—PUBLICATION AND COMPUTER SUMMARY TAPE PROGRAM

The results of the 1970 Census of Population and Housing are being issued in the form of printed reports, microfiche copies of the printed reports, computer summary tapes, computer printouts, and microfilm. Listed below are short descriptions of the final report series and computer tapes, as currently planned. More detailed information on this program can be obtained by writing to the Publications Distribution Section, Social and Economic Statistics Administration, Washington, D.C. 20233.

### Housing Census Reports

#### Volume I. HOUSING CHARACTERISTICS FOR STATES, CITIES, AND COUNTIES

This volume consists of 58 "parts"—number 1 for the United States, numbers 2 through 52 for the 50 States and the District of Columbia in alphabetical order, and numbers 53 through 58 for Puerto Rico, Guam, Virgin Islands, American Samoa, Canal Zone, and Trust Territory of the Pacific Islands, respectively. Each part, which is a separate clothbound book, contains two chapters designated as A and B. Each chapter (for each of the 58 areas) is issued as an individual paperbound report in two series designated as HC(1)-A and B, respectively.

- Series HC(1)-A.  
**GENERAL HOUSING  
CHARACTERISTICS**

Statistics on tenure, kitchen facilities, plumbing facilities, number of rooms, persons per room, units in structure, mobile home, telephone, value, contract rent, and vacancy status are presented for some or all of the following areas: States (by urban and rural residence), standard metropolitan statistical areas (SMSA's), urbanized areas, places of 1,000 inhabitants or more, and counties.

- Series HC(1)-B.  
**DETAILED HOUSING  
CHARACTERISTICS**

Statistics are presented on a more detailed basis for the subjects included in the Series HC(1)-A reports, as well as on such additional subjects as year moved into unit, year structure built, basement, heating equipment, fuels, air conditioning, water and sewage, appliances, gross rent, and ownership of second home. Each subject is shown for some or all of the following areas: States (by urban, rural-nonfarm, and rural-farm residence), SMSA's, urbanized areas, places of 2,500 inhabitants or more, and counties (by rural and rural-farm residence).

#### Volume II. METROPOLITAN HOUSING CHARACTERISTICS

These reports, also designated as Series HC(2), cover most of the 1970 census housing subjects in considerable detail and cross-classification. There is one report for each SMSA, presenting data for the SMSA and its central cities and places of 50,000 inhabitants or more, as well as a national summary report.

#### Volume III. BLOCK STATISTICS

One report, under the designation Series HC(3), is issued for each urbanized area showing data for individual blocks on selected housing and population subjects. The series also includes reports for the communities outside urbanized areas which have contracted with the Census Bureau to provide block statistics from the 1970 census.

#### Volume IV. COMPONENTS OF INVENTORY CHANGE

This volume will contain data on the disposition of the 1960 inventory and the source of the 1970 inventory, such as new construction, conversions, mergers, demolitions, and other additions and losses. Cross-tabulations of 1970 and 1960 characteristics for units that have not changed and characteristics of the present and previous residence of recent movers will also be provided. Statistics will be shown for 15 selected SMSA's and for the United States and regions.

#### Volume V. RESIDENTIAL FINANCE

This volume will present data regarding the financing of privately owned nonfarm residential properties. Statistics will be shown on amount of outstanding mortgage debt, manner of acquisition of property, homeowner expenses, and other owner, property, and mortgage characteristics for the United States and regions.

#### Volume VI. ESTIMATES OF "SUBSTANDARD" HOUSING

This volume will present counts of "substandard" housing units for counties and cities, based on the number of units lacking plumbing facilities combined with estimates of units with all plumbing facilities but in "dilapidated" condition.

#### Volume VII. SUBJECT REPORTS

Each report in this volume will concentrate on a particular subject. Detailed information and cross-classifications will generally be provided on a national and regional level; in some reports, data for States or SMSA's may also be shown. Among the subjects to be covered are housing characteristics by household composition, housing of minority groups and senior citizens, and households in mobile homes.

### Population Census Reports

#### Volume I. CHARACTERISTICS OF THE POPULATION

This volume will consist of 58 "parts"—number 1 for the United States, numbers 2 through 52 for the 50 States and the District of Columbia in alphabetical order, and numbers 53 through 58 for Puerto Rico, Guam, Virgin Islands, American Samoa, Canal Zone, and Trust Territory of the Pacific Islands, respectively. Each part, which will be a separate clothbound book, will contain four chapters designated as A, B, C, and D. Each chapter (for each of the 58 areas) will first be issued as an individual paperbound report in four series designated as PC(1)-A, B, C, and D, respectively. The 58 PC(1)-A reports are specially assembled and issued in a clothbound book, designated as Part A.

- Series PC(1)-A.  
**NUMBER OF INHABITANTS**

Final official population counts are presented for States, counties by urban and rural residence, SMSA's, urbanized areas, county subdivisions, all incorporated places, and unincorporated places of 1,000 inhabitants or more.

- Series PC(1)-B.  
**GENERAL POPULATION  
CHARACTERISTICS**

Statistics on age, sex, race, marital status, and relationship to head of household are presented for States, counties by urban and rural residence, SMSA's, urbanized areas, county subdivisions, and places of 1,000 inhabitants or more.

- Series PC(1)-C.  
**GENERAL SOCIAL AND  
ECONOMIC CHARACTERISTICS**

Statistics are presented on nativity and parentage, State or country of birth, Spanish origin, mother tongue, residence 5 years ago, year moved into present house, school enrollment (public or private), years of school completed, vocational training, number of children ever born, family composition, disability, veteran status, employment status, place of work, means of transportation to work, occupation group, industry group, class of worker, and income (by type) in 1969 of families and individuals. Each subject is shown for some or all of the following areas: States, counties (by urban, rural-nonfarm, and rural-farm residence), SMSA's, urbanized areas, and places of 2,500 inhabitants or more.

■ Series PC(1)-D.

**DETAILED CHARACTERISTICS**

These reports cover most of the subjects shown in Series PC(1)-C, above, presenting the data in considerable detail and cross-classified by age, race, and other characteristics. Each subject is shown for some or all of the following areas: States (by urban, rural-nonfarm, and rural-farm residence), SMSA's, and large cities.

**Volume II.**

**SUBJECT REPORTS**

Each report in this volume, also designated as Series PC(2), will concentrate on a particular subject. Detailed information and cross-relationships will generally be provided on a national and regional level; in some reports, data for States or SMSA's will also be shown. Among the characteristics to be covered are national origin and race, fertility, families, marital status, migration, education, unemployment, occupation, industry, and income.

**Joint Population-Housing Reports**

Series PHC(1).

**CENSUS TRACT REPORTS**

This series contains one report for each SMSA, showing data for most of the population and housing subjects included in the 1970 census.

Series PHC(2).

**GENERAL DEMOGRAPHIC TRENDS FOR METROPOLITAN AREAS, 1960 to 1970**

This series consists of one report for each State and the District of Columbia, as well as a national summary report, presenting statistics for the State and for SMSA's and their central cities and constituent counties. Comparative 1960 and 1970 data are shown on population counts by age and race and on such housing subjects as tenure, plumbing facilities, value, and contract rent.

Series PHC(3).

**EMPLOYMENT PROFILES OF SELECTED LOW-INCOME AREAS**

This series consists of 76 reports, each presenting statistics on the social and economic characteristics of the residents of a particular low-income area. The data relate to low-income neighborhoods in 51 cities and seven rural poverty areas. Each report provides statistics on employment and unemployment, education, vocational training, availability for work, job history, and income, as well as on value or rent and number of rooms in the housing unit.

**Additional Reports**

Series PHC(E).

**EVALUATION REPORTS**

This open series will present the results of the extensive evaluation program conducted as an integral part of the 1970 census program, and relating to such matters as completeness of enumeration and quality of the data on characteristics.

Series PHC(R).

**PROCEDURAL REPORTS**

This open series presents information on various administrative and methodological aspects of the 1970 census, and will include a comprehensive procedural history of the 1970 census. The first report issued focuses on the forms and procedures used in the data collection phase of the census.

**Computer Summary Tapes**

The major portion of the results of the 1970 census are produced in a set of six tabulation counts. To help meet the needs of census users, these counts are designed to provide data with much greater subject and geographic detail than it is feasible or desirable to publish in printed reports. The data so tabulated are generally available—subject to suppression of certain detail where necessary to protect confidentiality—on magnetic computer tape, printouts, and microfilm, at the cost of preparing the copy.

**First Count**—source of the PC(1)-A reports; contains about 400 cells of data on the subjects covered in the PC(1)-B and HC(1)-A reports and tabulated for each of the approximately 250,000 enumeration districts in the United States.

**Second Count**—source of the PC(1)-B, HC(1)-A, and part of the PHC(1) reports; contains about 3,500 cells of data covering the subjects in these reports and tabulated for the approximately 35,000 tracts and 35,000 county subdivisions in the United States.

**Third Count**—source of the HC(3) reports; contains about 250 cells of data on the subjects covered in the PC(1)-B and HC(1)-A reports and tabulated for approximately 1,500,000 blocks in the United States.

**Fourth Count**—source of the PC(1)-C, HC(1)-B, and part of the PHC(1) reports; contains about 13,000 cells of data covering the subjects in these reports and tabulated for the approximately 35,000 tracts and 35,000 county subdivisions in the United States; also contains about 30,000 cells of data for each county.

**Fifth Count**—contains approximately 800 cells of population and housing data for 5-digit ZIP code areas in SMSA's and 3-digit ZIP code areas outside SMSA's; the ZIP code data are available only on tape.

**Sixth Count**—source of the PC(1)-D and HC(2) reports; contains about 260,000 cells of data covering the subjects in these reports and tabulated for States, SMSA's, and large cities.

The tapes are generally organized on a State basis. To use the First Count and Third Count tapes, it is necessary to purchase the appropriate enumeration district and block maps.

The term "cells" used herein to indicate the scope of subject content of the several counts refers to each figure or statistic in the tabulation for a specific geographic area. For example, in the Third Count, there are six cells for a cross-classification of race by sex: three categories of race (white, Negro, other race) by two categories of sex (male, female).

In addition to the above-mentioned summary tapes, the Census Bureau makes available for purchase certain sample tape files containing population and housing characteristics as shown on individual census records. These files contain no names or addresses, and the geographic identification is sufficiently broad to protect confidentiality. There are six files, each containing a 1-percent national sample of persons and housing units. Three of the files are drawn from the population covered by the census 15-percent sample and three from the population in the census 5-percent sample. Each of these three files provides a different type of geographic information: One identifies individual large SMSA's and, for the rest of the country, groups of counties; the second identifies individual States and, where they are sufficiently large, provides urban-rural and metropolitan-nonmetropolitan detail; and the third identifies State groups and size of place, with each individual record showing selected characteristics of the person's neighborhood.